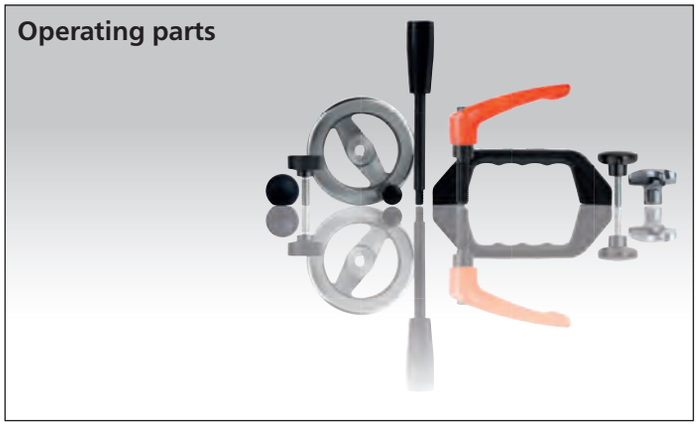
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norelem positions

Flexible standard component system

Operating parts



06010
Page 704



Knurled nuts
steel and stainless steel, DIN 6303

06013
Page 705



Knurled nuts
plastic

06014
Page 706



Knurled nuts plastic

06014
Page 707



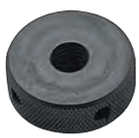
Knurled nuts plastic, antistatic

06030
Page 708



Knurled nuts quick-acting

06070
Page 709



Knurled nuts

06089
Page 709



Knurled screws low head
steel and stainless steel, DIN 653

06090
Page 710



Knurled screws high form
steel and stainless steel, DIN 464

06091
Page 710



Knurled thumb screws
plastic

06091-01
Page 711



Knurled screws plastic

06091-01
Page 712



Knurled screws plastic, antistatic

06092
Page 713



Knurled knobs

06092
Page 714



Knurled knobs antistatic

06094
Page 715



Knurled knobs

06096
Page 716



Knurled knobs
aluminium

06097
Page 717



Knurled knobs

06100
Page 718



Knurled knobs

06105
Page 719



Knurled knobs
with arrow

06110
Page 720



Knurled nuts high
steel and stainless steel, DIN 466

06120
Page 720



Knurled nuts flat
steel and stainless steel, DIN 467

06130
Page 721



Knurled screws

06131
Page 722



Knurled knobs
for screws with hex head

06132
Page 723



Knurled heads
for hexagon socket screws

06133
Page 724



Wing grips
for hexagon socket screws

06134
Page 724



Disc grips
for hexagon socket screws

06140
Page 725



Tommy bars
with fixed or sliding T-bar, DIN 6305 or DIN 6307

06150
Page 726



T-thrust screws
with fixed or sliding T-bar, DIN 6304 or DIN 6306

06156
Page 728



Palm grips
aluminium, similar to DIN 6335

06158
Page 731



Palm grips
stainless steel, similar to DIN 6335

06160
Page 732



Palm grips
grey cast iron DIN 6335

06161
Page 733



Palm grips
plastic coated grey cast iron, DIN 6335

06170
Page 733



Palm grips
with threaded spindle

New/Expanded Items

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norelem positions

Flexible standard component system

06180
Page 734

Palm grips
similar to DIN 6335

06181
Page 735

Palm grips
similar to DIN 6335 metal parts stainless-steel

06190
Page 736

Palm grips quick-acting
grey cast iron

06192
Page 738

Star grips
aluminium, similar to DIN 6336

06194
Page 741

Star grips
stainless steel, similar to DIN 6336

06200
Page 742

Star grips
grey cast iron, DIN 6336

06208
Page 743

Star grips
similar to DIN 6336

06209
Page 744

Star grips
similar to DIN 6336,
metal parts stainless steel

06209-01
Page 745

Star grips, plastic
with protruding steel bush

06210
Page 747

Star grips
with projecting steel bush

06210-10
Page 748

Star grips, plastic
with clamping force intensifier

06211
Page 749

Star grips
with extended collar

06212
Page 750

Star grips
metal parts stainless steel, similar to DIN 6336

06212
Page 751

Star grips
with safety cable metal parts stainless steel, similar to DIN 6336

06220
Page 752

Star grips
similar to DIN 6336

06220
Page 754

Star grips antistatic
similar to DIN 6336

06220
Page 757

Star grips with safety cable
similar to DIN 6336

06222
Page 758

Star grips quick-acting

06230
Page 758

Four-spoked nuts

06235
Page 759

Capstan wheel

06237
Page 760

Knobs flat

06238
Page 761

Mushroom knobs
internal thread

06239
Page 761

Mushroom knobs
external thread

06240
Page 762

Mushroom knobs
with internal thread

06240-10
Page 763

Mushroom knobs
internal thread

06240-11
Page 763

Mushroom knobs
external thread

06241
Page 764

Mushroom knobs
internal thread

06242
Page 766

Mushroom knobs
external thread

06242
Page 767

Mushroom knobs antistatic
external thread

06245
Page 768

Spherical knobs

06246
Page 769

Spherical knobs
revolving

06247
Page 770

Ball knobs
thermoplastic DIN 319 enhanced

06247
Page 771

Ball knobs
stainless steel or aluminium DIN 319

06250
Page 772

Ball knobs smooth
DIN 319 enhanced

06251
Page 774

Tapered knobs

06252
Page 774

Conical knobs

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norelem positions

Flexible standard component system

06253
Page 775



Five lobe grips

06255
Page 776



Handwheels 2-spoke
plastic

06255
Page 777



Handwheels 2-spoke
plastic, with revolving grip

06255
Page 778



Handwheels 2-spoke
plastic, with folding grip

06262
Page 779



Handwheels

06263
Page 780



Handwheels
with revolving grip

06264
Page 781



Handwheels
with fold-away grip

06265
Page 783



Handwheels
with safety grip

06266
Page 784



Knurled knobs

06267
Page 786



Knurled knobs
metal parts stainless steel

06268
Page 788



Knurled knobs
with grip

06271
Page 790



Handwheels
DIN 950, grey cast iron

06273
Page 792



Handwheels
DIN 950, aluminium

06274
Page 794



Handwheels
DIN 950, stainless steel

06275
Page 796



Handwheels disc
aluminium

06275
Page 798



Handwheels disc
aluminium

06276-01
Page 800



Handwheels disc stainless steel
with revolving grip

06277
Page 802



Handwheels 2-spoke
aluminium, flat wheel rim

06277
Page 804



Handwheels 2-spoke
flat rim, aluminium

06279
Page 806



Handwheels disc
similar to DIN 950, aluminium

06287
Page 807



Handwheels disc
with revolving grip

06288
Page 808



Handwheels disc
without grip

06289
Page 809



Hand wheels, steel, stamped

06290
Page 810



Machine handles fixed
steel, similar to DIN 39

06291
Page 810



Machine handles fixed
steel, DIN 39 Form E

06292
Page 811



Machine handles fixed
aluminium, DIN 39 Form E

06293
Page 811



Machine handles, fixed,
DIN 39 Form E, stainless steel

06308
Page 812



Machine handles revolving
similar to DIN 98 Form E, steel

06309
Page 812



Machine handles revolving
aluminium, similar to DIN 98 Form E

06309-01
Page 813



Machine handles
revolving similar to DIN 98 Form E,
stainless steel

06310
Page 814



Machine handles revolving
steel, similar to DIN 98

06311
Page 814



Machine handles fixed
straight form, similar to DIN 39

06312
Page 815



Machine handles revolving
straight form, similar to DIN 98

06313
Page 815



Machine handles revolving

06314
Page 816



Conical grip
revolving

06315
Page 816



Taper grips
fixed

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norelem positions

Flexible standard component system

06316
Page 817



Taper grips
revolving

06316
Page 817



Taper grips
revolving

06317
Page 818



Cylindrical grips revolving
stainless steel

06318
Page 818



Conical grips
revolving

06319
Page 819



Taper grips

06320
Page 820



Taper grips

06321
Page 821



Cylindrical grips revolving
with hexagon socket

06322
Page 821



Cylindrical grips revolving

06323
Page 822



Tension levers

06325-01
Page 823



Cylindrical grips, plastic
revolving

06326-01
Page 824



Cylindrical grips, plastic
fold-down

06328-01
Page 825



Safety cylindrical grips, plastic
auto-return

06330
Page 826



Levers 20°
DIN 99

06340
Page 827



Tension lever

06341
Page 828



Tension levers stainless steel

06342
Page 829



Tension levers flat

06349
Page 830



Lock grips

06350
Page 830



Tension levers

06353
Page 831



Ball grips revolving

06355
Page 832



Handles screw-in

06357
Page 832



Handles screw-in
with torque limit

06360
Page 833



Handles

06362
Page 834



Clamp hubs

06370
Page 835



Tension levers
internal thread

06371
Page 836



Tension levers
internal thread, stainless steel

06380
Page 837



Tension levers
external thread

06381
Page 838



Tension levers
external thread, stainless steel

06382
Page 839



Tension levers safety
internal thread

06383
Page 840



Tension levers safety
external thread

06390
Page 841



Tension levers flat
internal thread

06391
Page 842



Tension levers flat
internal thread, stainless steel

06400
Page 843



Tension levers flat
external thread

06401
Page 844



Tension levers flat
external thread, stainless steel

06410
Page 845



Clamping levers
internal thread

06411
Page 846



Clamping levers
internal thread, steel parts stainless steel

06420
Page 847



Ball handles
DIN 6337

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norelem positions

Flexible standard component system

06430
Page 847



Clamping levers

06430
Page 848



Clamping levers
external thread

06431
Page 849



Clamping levers
external thread, steel parts stainless steel

06440
Page 850



Clamping levers
internal thread, steel

06440
Page 851



Clamping levers
internal thread, stainless steel

06441
Page 852



Clamping levers
external thread

06441
Page 853



Clamping levers
external thread, stainless steel

06442
Page 854



Clamping levers
internal thread, steel

06443
Page 855



Clamping levers
external thread, steel

06448
Page 856



Clamping levers flat
internal thread

06449
Page 857



Clamping levers flat
internal thread, steel parts stainless steel

06450
Page 858



Clamping levers
internal thread

06450
Page 859



Clamping levers with protective cap
internal thread

06450-05
Page 860



Clamping levers,
zinc with internal thread, steel parts trivalent blue passivated

06450-10
Page 863



Clamping levers,
zinc with female thread
and clamping force intensifier

06451
Page 864



Clamping levers
internal thread, steel parts stainless steel

06451
Page 865



Clamping levers with protective cap
internal thread, steel parts stainless steel

06451-10
Page 867



Clamping levers, zinc
with female thread and
clamping force intensifier

06454
Page 868



Clamping levers
with internal thread, stainless steel

06454
Page 869



Clamping levers with protective cap
with internal thread, stainless steel

06458
Page 871



Clamping levers flat
external thread

06459
Page 872



Clamping levers flat
external thread, steel parts stainless steel

06460
Page 873



Clamping levers
external thread

06460
Page 874



Clamping levers with protective cap
external thread

06460-05
Page 875



Clamping levers, zinc
with external thread,
steel parts trivalent blue passivated

06460-10
Page 877



Clamping levers, zinc
with male thread and
clamping force intensifier

06461
Page 878



Clamping levers
external thread, steel parts stainless steel

06461
Page 879



Clamping levers with protective cap
with external thread, metal parts stainless steel

06461-10
Page 881



Clamping levers, zinc
with male thread and clamping force intensifier

06464
Page 882



Clamping levers
with external thread, stainless steel

06464
Page 883



Clamping levers with protective cap
with external thread, stainless steel

06470
Page 885



Ratchet levers

06480
Page 887



Crank handles offset
similar to DIN 468

06490
Page 888



Crank handles straight
similar to DIN 469

06492
Page 889



Crank handles
aluminium

06500
Page 890



Crank handles
with fold-away grip

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Flexible standard component system

06500
Page 891



Crank handles
with revolving grip

06502
Page 892



Crank handles
with safety grip

06503
Page 893



Crank handles aluminium
cylindrical revolving grip

06503
Page 894



Crank handles aluminium
with fold-away cylinder grip

06504
Page 895



Crank handles aluminium
with safety cylinder grip

06505
Page 896



Crank handles stainless steel
cylindrical revolving grip

06510
Page 897



Crank handles
balanced

06550
Page 897



Bar knobs

06600
Page 898



Clamping levers with plastic handle
internal thread

06600
Page 899



Clamping levers with push button
internal thread

06600
Page 900



Clamping levers antistatic
internal thread, plastic grip

06600-05
Page 901



Clamping levers, plastic
with internal thread,
steel parts trivalent blue passivated

06600-10
Page 903



Clamping levers, plastic
with female thread and
clamping force intensifier

06601
Page 904



Clamping levers with plastic handle
internal thread,
metal parts stainless steel

06601
Page 905



Clamping levers with push button
internal thread, metal parts stainless steel

06601-10
Page 907



Clamping levers, plastic
with female thread
and clamping force intensifier

06610
Page 908



Clamping levers with plastic handle
external thread

06610
Page 909



Clamping levers with push button
with external thread

06610
Page 910



Clamping levers antistatic
external thread, plastic grip

06610-05
Page 911



Clamping levers, plastic
with external thread,
steel parts trivalent blue passivated

06610-10
Page 913



Clamping levers, plastic
with male thread
and clamping force intensifier

06611
Page 914



Clamping levers with plastic handle
external thread,
metal parts stainless steel

06611
Page 915



Clamping levers with push button
external thread, metal parts stainless
steel

06611-10
Page 917



Clamping levers, plastic
with male thread
and clamping force intensifier

06612
Page 919



Clamping levers with thrust pad

06613-10
Page 920



Clamping levers, plastic with safety
function with female thread

06613-11
Page 921



Clamping levers, plastic with safety
function with male thread

06620
Page 923



Clamping joints

06621
Page 924



Clamping joints
individually adjustable

06622
Page 925



Multiple connectors

06648
Page 926



T-grips
stainless steel

06649
Page 927



T-grips

06650
Page 928



T-grips

06651
Page 929



Wing grips
internal thread, stainless steel

06652
Page 930



Wing grips

06652
Page 931



Wing grips
with tapped through bush

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norelem positions

Flexible standard component system

06651-03
Page 932


Wing nuts narrow
in Hygienic DESIGN

06652
Page 934


Wing grips antistatic

06652
Page 935


Wing grips “Miniwing”

06652
Page 936


Wing grips “Miniwing”
with tapped through bush

06652
Page 937


Wing grips “Miniwing” antistatic

06660
Page 938


Wing grips one-sided

06665
Page 939


Wing grips

06666
Page 940


Grip nuts

06666
Page 941


Grip screws

06699
Page 942


Triangular grips

06702
Page 943


Triangular grips
with high collar

06830
Page 944


Handwheels

06850
Page 945


Bouton aster

06851
Page 946


Five lobe grips
with internal thread

06851-01
Page 947


Five lobe grips
with external thread

06852
Page 948


Five lobe grips plastic lockable

06853
Page 949


Five lobe grips

06895
Page 950


Pull handles

06900
Page 950


Pull handles

06900
Page 951


Pull handles

06901
Page 951


Pull handles

06901-01
Page 952


Pull handles, plastic oval

06902
Page 953


Pull handles

06903
Page 954


Pull handles

06903
Page 955


Pull handles
high temperature resistant

06903
Page 956


Pull handles antistatic

06904
Page 957


Pull handles

Pull handles arch

06907
Page 958


Pull handles arch

06909
Page 959


Pull handles arch

06910
Page 959


Pull handles

06911
Page 960


Pull handles arch

06912
Page 960


Pull handles
oblique

06913
Page 961


Pull handles
with soft inner face

06914
Page 962


Pull handles stainless steel

06915
Page 962


Pull handles

06916
Page 963


Pull handles

New/Expanded Items

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norelem positions

Flexible standard component system

06916-01
Page 964



Pull handles

06916-01
Page 965



Pull handles
high temperature resistant

06917
Page 966



Pull handles round

06918
Page 967



Pull handles oval

06919
Page 968



Pull handles round

06920
Page 969



Pull handles oval

06920
Page 970



Pull handles oval
detachable

06921
Page 973



Pull handles

06922
Page 973



Pull handles
stainless steel

06923
Page 974



Pull handles angled

06924
Page 974



Pull handles
stainless steel

06925
Page 975



Pull handles tubular

06926
Page 975



Pull handles tubular

06927
Page 976



Pull handles tubular

06928
Page 977



Pull handles tubular
oblique

06929
Page 978



Pull handles

06930
Page 979



Pull handles
high-gloss chromed

06931
Page 980



Pull handles
stainless steel

06932
Page 981



Pull handles

06932
Page 982



Pull handles

06933
Page 983



Pull handles

06933
Page 983



Pull handles

06934
Page 984



Pull handles fold-down

06935
Page 985



Pull handles angled

06936
Page 985



Pull handles tubular angled

06937
Page 986



Pull handles tubular

06938
Page 986



Pull handles tubular

06938-01
Page 987



Tubular handles round,
aluminium

06938-02
Page 988



Tubular handles oval,
aluminium

06939
Page 989



Pull handles tubular

06940
Page 990



Pull handles tubular

06941
Page 991



Pull handles tubular

06942
Page 992



Pull handles tubular

06943
Page 993



Pull handles tubular stainless steel

06944
Page 994



Pull handles

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06000

Operating parts

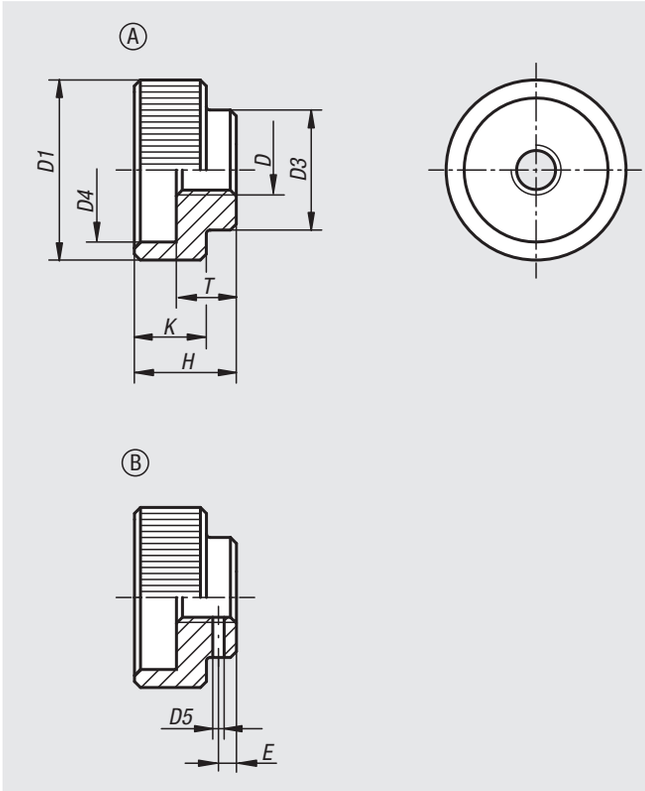


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Knurled nuts

steel and stainless steel, DIN 6303





Material:
Steel 1.0718.
Stainless steel 1.4305.

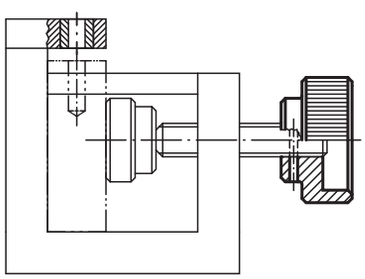
Version:
Steel, black oxidised.
Stainless steel, bright.

Sample order:
nlm 06010-108

Note:
Due to the better haptics, a larger pitch was chosen contrary to DIN.

Drawing reference:
Form A: without pin hole
Form B: with pin hole

- Drill through and ream pin hole during assembly.



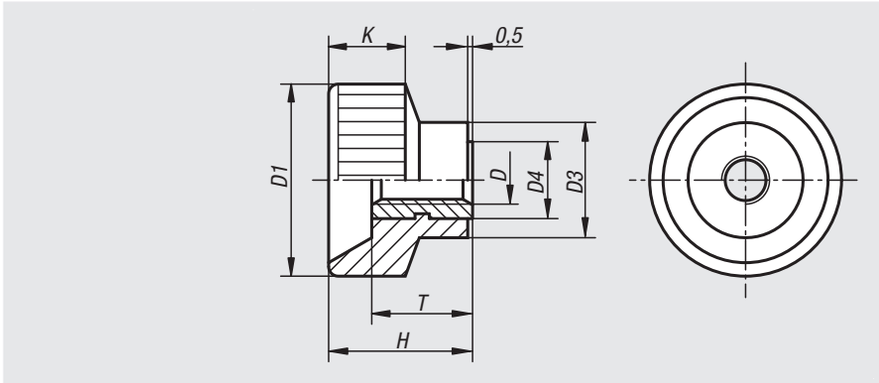
Order No.	Form	Main material	D	D1	D3	D4	D5 predrilled	E	H	K	T	suitable dowel pin ISO 2338
06010-105	A	steel	M5	20	14	15	-	-	12	8	7	-
06010-106	A	steel	M6	24	16	18	-	-	14	10	8	-
06010-108	A	steel	M8	30	20	24	-	-	17	12	10	-
06010-110	A	steel	M10	36	28	30	-	-	20	14	12	-
06010-112	A	steel	M12	40	32	34	-	-	24	16	14	-
06010-1052	A	stainless steel	M5	20	14	15	-	-	12	8	7	-
06010-1062	A	stainless steel	M6	24	16	18	-	-	14	10	8	-
06010-1082	A	stainless steel	M8	30	20	24	-	-	17	12	10	-
06010-1102	A	stainless steel	M10	36	28	30	-	-	20	14	12	-
06010-1122	A	stainless steel	M12	40	32	34	-	-	24	16	14	-
06010-205	B	steel	M5	20	14	15	1,4	2,5	12	8	7	1,5
06010-206	B	steel	M6	24	16	18	1,4	2,5	14	10	8	1,5
06010-208	B	steel	M8	30	20	24	1,9	3	17	12	10	2
06010-210	B	steel	M10	36	28	30	2,9	4	20	14	12	3
06010-212	B	steel	M12	40	32	34	3,9	4	24	16	14	4

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Knurled nuts

plastic





Material:
Black thermoset PF 31.
Tapped bush brass.

Version:
Tapped bush nickel-plated.

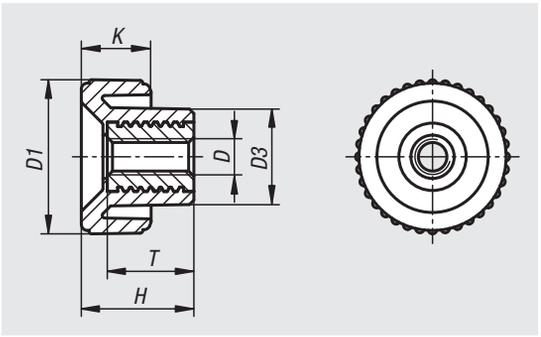
Sample order:
nlm 06013-08

Order No.	D	D1	D3	D4	H	K	T
06013-04	M4	18	10	7	13	8	9
06013-05	M5	20	12	8	14	8	10
06013-06	M6	24	13	9	16	9	10
06013-08	M8	30	15	11	18	11	11
06013-10	M10	35	18	14	19	12	11

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Knurled nuts plastic





Material:
Body reinforced polyamide thermoplastic, black grey.
Tapped bush 5.8 steel or stainless steel 1.4305.

Version:
Tapped bush blue passivated steel or bright stainless steel.

Sample order:
nlm 06014-1804

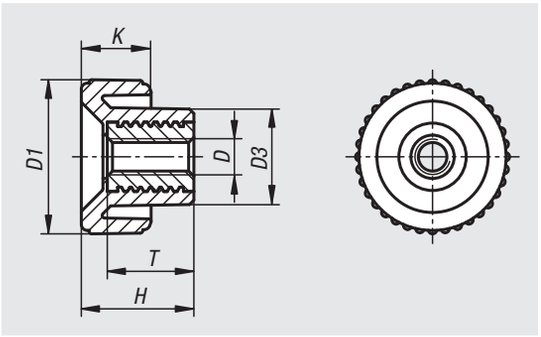
Advantages:
The knurled nuts can be tightened or loosened without tools.
Suitable for manual fixating and clamping.
Various thread sizes.

Order No. steel	Order No. stainless steel	D	D1	D3	H	K	T
06014-1804	**06014-18042**	M4	18	11	13	8	10
06014-2005	**06014-20052**	M5	20	13,6	15	9	10
06014-2006	**06014-20062**	M6	20	13,6	15	9	10
06014-2505	**06014-25052**	M5	25	14	17	10	10
06014-2506	**06014-25062**	M6	25	14	17	10	10
06014-3208	**06014-32082**	M8	32	18	22	13	14
06014-3210	**06014-32102**	M10	32	18	22	13	14
06014-4008	**06014-40082**	M8	40	19	25	14	14
06014-4010	**06014-40102**	M10	40	19	25	14	14

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Knurled nuts plastic, antistatic





Material:
Reinforced polyamide thermoplastic, graphite grey.
Screw steel 5.8.

Version:
Tapped bush trivalent blue passivated.

Sample order:
nlm 06014-11180424

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Advantages:
To protect sensitive electrical or electronic parts, components and devices.
Areas of application: electrical assembly, equipment construction according to ATEX directives.
Made from a special electrically conductive plastic.
ESD operating parts have been specially designed for use in ESD protected areas.
The knurled nuts can be tightened or loosened without tools.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

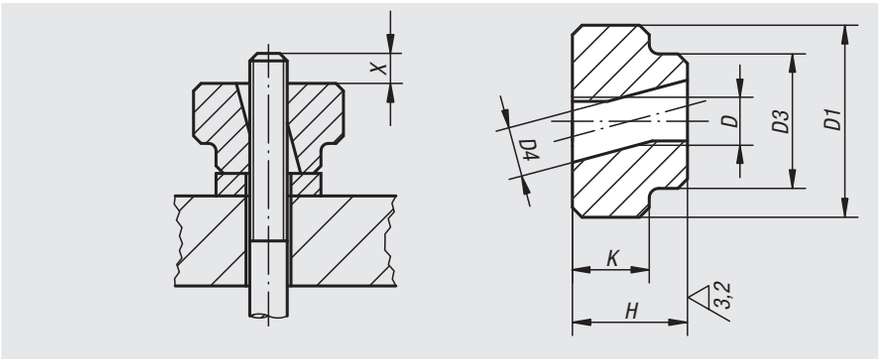
Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Order No.	D	D1	D3	H	K	T
06014-11180424	M4	18	11	13	8	10
06014-11200524	M5	20	13,6	15	9	10
06014-11250624	M6	25	14	17	10	10
06014-11320824	M8	32	18	22	13	14
06014-11401024	M10	40	19	25	14	14

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Knurled nuts quick-acting





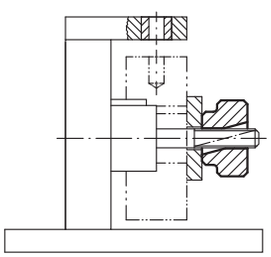
Material:
Carbon steel.

Version:
Tempered and black oxidised.

Sample order:
nlm 06030-08

Note:
Quick-acting knurled nuts are mainly used in applications where no high clamping pressures are required.
Tilt the nut to slide on, then straighten it to engage the threads.

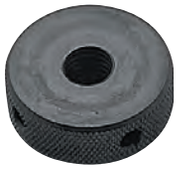
Drawing reference:
X: The stud should be several mm longer than height “H”



Order No.	D	D1	D3	D4	H	K
06030-05	M5	20	14	5,2	12	8
06030-06	M6	24	16	6,2	14	10
06030-08	M8	30	20	8,2	17	12
06030-10	M10	36	28	10,3	20	14
06030-12	M12	40	32	12,3	24	16

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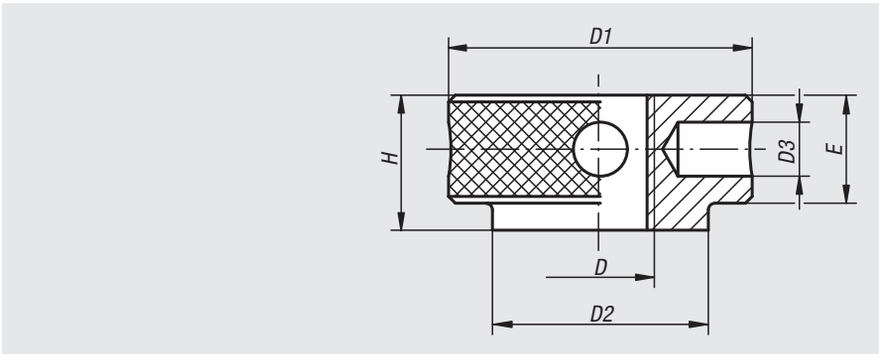
Knurled nuts



Material:
Steel.

Version:
Black oxidised.

Sample order:
nlm 06070-100

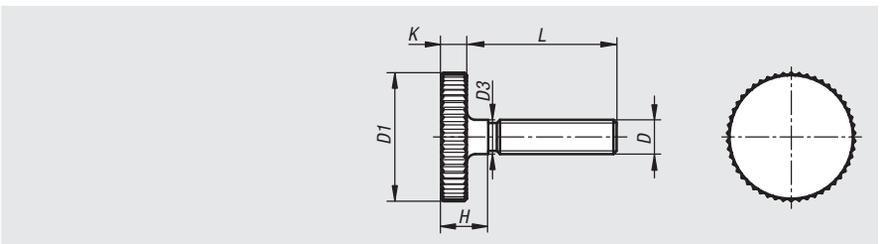


Order No.	D	D1	D2	D3	E	H
06070-100	M10	32	22	4	10	12
06070-120	M12	36	25	5	13,5	16
06070-140	M14	40	28	6	15	18
06070-160	M16	45	32	8	16	20

Knurled screws low head

steel and stainless steel, DIN 653





Material:
Steel or stainless steel (A 1).

Version:
Steel grade 5.8, bright;
Stainless steel, bright.

Sample order:
nlm 06089-062X20 (include length L)

Note:
Delivery is according to DIN 653 or DIN 653-A.

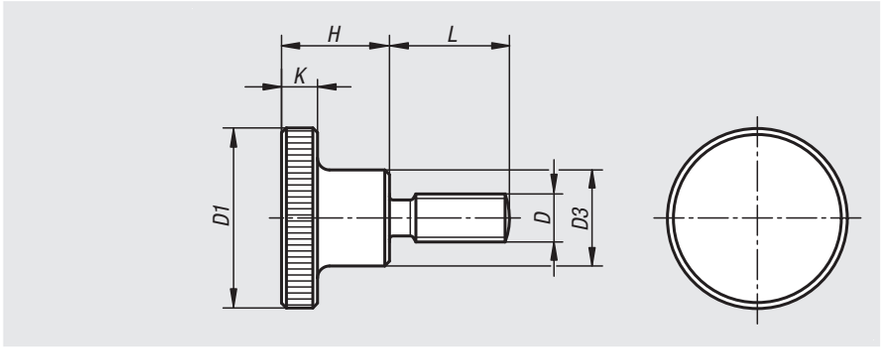
Order No.	Main material	D	D1	D3	H	K	L
06089-03X	steel	M3	12	3	4,5	2,5	10/12/16
06089-04X	steel	M4	16	4	6,5	3,5	8/10/12/16/20
06089-05X	steel	M5	20	5	7	4	10/12/16/20/25/30
06089-06X	steel	M6	24	6	9	5	12/16/20/25/30/35/40
06089-08X	steel	M8	30	8	11	6	16/20/25/30/35/40
06089-10X	steel	M10	36	10	14	8	20/25/30/35/40
06089-032X	stainless steel	M3	12	3	4,5	2,5	10/12/16
06089-042X	stainless steel	M4	16	4	6,5	3,5	8/10/12/16/20
06089-052X	stainless steel	M5	20	5	7	4	10/12/16/20/25/30
06089-062X	stainless steel	M6	24	6	9	5	12/16/20/25/30/35/40
06089-082X	stainless steel	M8	30	8	11	6	16/20/25/30
06089-102X	stainless steel	M10	36	10	14	8	20/25/30/40

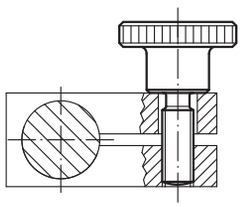
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Knurled screws high form

steel and stainless steel, DIN 464







Material:
Steel 1.0718.
Stainless steel 1.4305.

Version:
Steel, black oxidised.
Stainless steel, bright.

Sample order:
nlm 06090-06X20 (include length L)

Note:
* Threads with these lengths have no undercut at the shoulder.

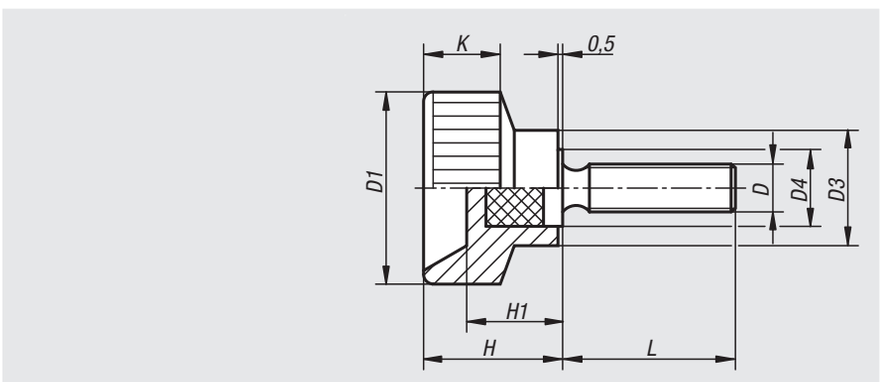
Order No. stainless steel	Order No. steel	D	D1	D3	H	K	L
06090-042X	**06090-04X**	M4	16	8	9,5	3,5	10/16/20*
06090-052X	**06090-05X**	M5	20	10	11,5	4	10/16/20
06090-062X	**06090-06X**	M6	24	12	15	5	10/16/20/25*
06090-082X	**06090-08X**	M8	30	16	18	6	16/20/25/30*
06090-102X	**06090-10X**	M10	36	20	23	8	20/25/30/40*

06091

Knurled thumb screws

plastic





Material:
Black thermoset PF 31.
Screw steel.

Version:
Screw electro zinc-plated.

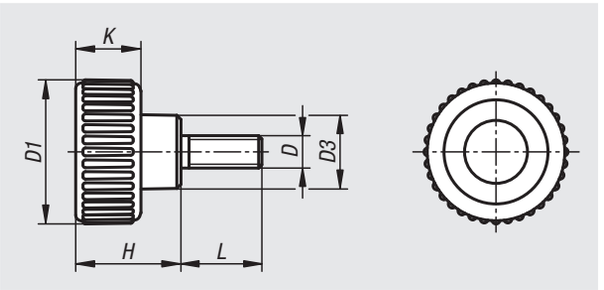
Sample order:
nlm 06091-05X25 (include length L)

Order No.	D	D1	D3	D4	H	H1	K	L
06091-04X	M4	18	10	7	13,5	9	8	15/20
06091-05X	M5	20	12	8	14,5	10	8	10/18/25
06091-06X	M6	24	13	10	15	9,5	9	20/28
06091-08X	M8	30	15	12	18	11	11	25/32
06091-10X	M10	35	18	14	18,5	11	12	30

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Knurled screws plastic





Material:
Reinforced polyamide thermoplastic, black grey.
Threaded pin 5.8 steel or stainless steel 1.4305.

Version:
Threaded pin trivalent blue passivated steel, bright stainless steel.

Sample order:
nlm 06091-01-2005X20 (include length L)

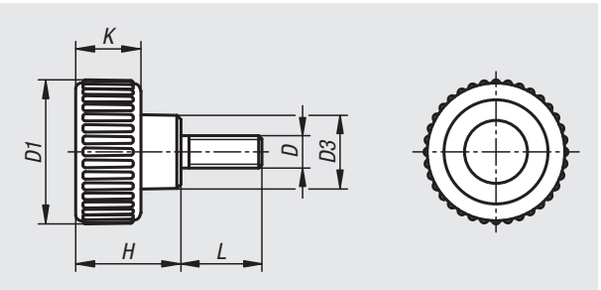
Advantages:
The knurled screws can be tightened or loosened without tools.
Suitable for manual fixing and clamping.
Various thread sizes and lengths.

Order No. steel	Order No. stainless steel	D	D1	D3	H	K	L
06091-01-1804X	**06091-01-18042X**	M4	18	9	13	8	10/15
06091-01-2005X	**06091-01-20052X**	M5	20	10,6	15	9	10/15/20
06091-01-2506X	**06091-01-25062X**	M6	25	12	17	10	10/15/20/30/40
06091-01-3208X	**06091-01-32082X**	M8	32	14	22	13	15/20/30/40
06091-01-4010X	**06091-01-40102X**	M10	40	18	25	14	20/30/40

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Knurled screws plastic, antistatic





Material:
Reinforced polyamide thermoplastic, graphite grey.
Screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
nlm 06091-01-11200524X20 (include length L)

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Advantages:
To protect sensitive electrical or electronic parts, components and devices.
Areas of application: electrical assembly, equipment construction according to ATEX directives.
Made from a special electrically conductive plastic.
ESD operating parts have been specially designed for use in ESD protected areas.
The knurled screws can be tightened or loosened without tools.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

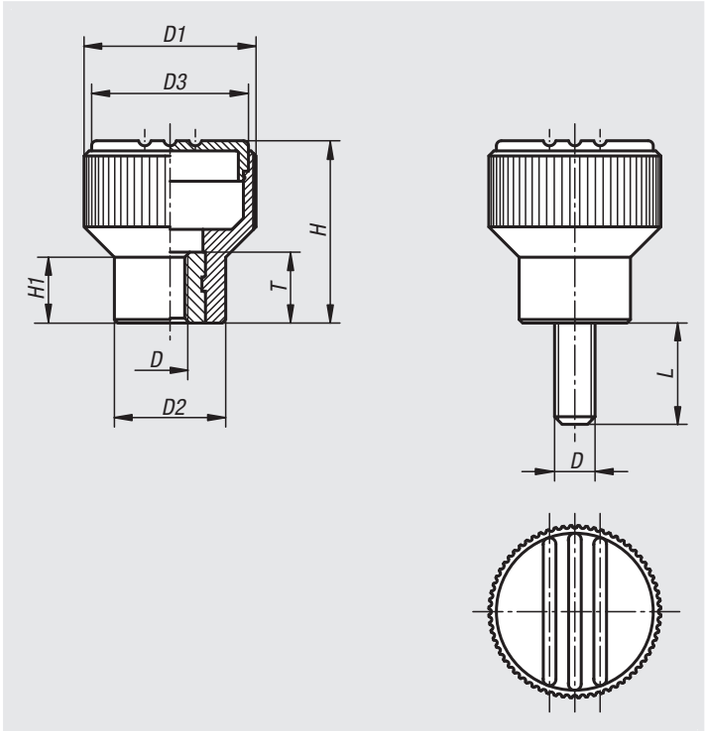
Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Order No.	D	D1	D3	H	K	L
06091-01-11180424X	M4	18	9	13	8	10/15
06091-01-11200524X	M5	20	10,6	15	9	10/15/20
06091-01-11250624X	M6	25	12	17	10	10/15/20
06091-01-11320824X	M8	32	14	22	13	15/20/30
06091-01-11401024X	M10	40	18	25	14	20/30

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Knurled knobs





Material:
Black thermoplastic.
Bush and screw 5.8 steel or 1.4305 stainless steel.

Version:
Steel trivalent blue passivated.
Stainless steel, bright.

Sample order:
nlm 06092-01056X20
(Cap colour traffic red. Include length L)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

Knurled knobs with internal thread

Order No. stainless steel	Order No. steel	D	D1	D2	D3	H	H1	T
06092-0104Δ	06092-104Δ	M4	21	14	19	22	8	10
06092-0105Δ	06092-105Δ	M5	21	14	19	22	8	10
06092-0106Δ	06092-106Δ	M6	21	14	19	22	8	10
06092-0208Δ	06092-208Δ	M8	26	18	23	26	9,5	14
06092-0308Δ	06092-308Δ	M8	34	22	31	36	13	14
06092-0310Δ	06092-310Δ	M10	34	22	31	36	13	14

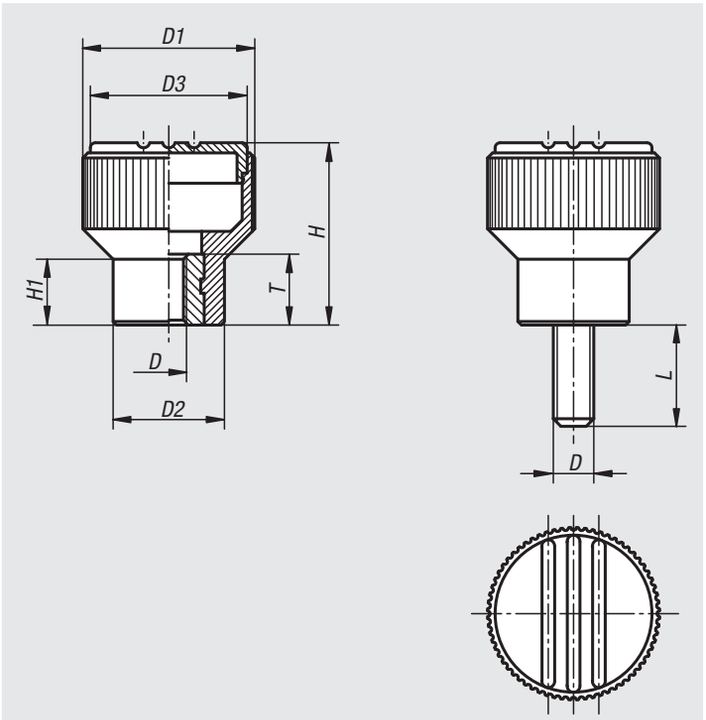
Knurled knobs with external thread

Order No. steel	Order No. stainless steel	D	D1	D2	D3	H	H1	L
06092-105ΔX	06092-0105ΔX	M5	21	14	19	22	8	10/12/15/20/25
06092-106ΔX	06092-0106ΔX	M6	21	14	19	22	8	15/20/25/30
06092-208ΔX	06092-0208ΔX	M8	26	18	23	26	9,5	20/25/30/40
06092-310ΔX	06092-0310ΔX	M10	34	22	31	36	13	20/30/40

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Knurled knobs antistatic





Material:
Thermoplastic, graphite black.
Bush or screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
nlm 06092-1110624

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Knurled knobs antistatic with internal thread

Order No.	D	D1	D2	D3	H	H1	T
06092-1110624	M6	21	14	19	22	8	10

Knurled knobs antistatic with external thread

Order No.	D	D1	D2	D3	H	H1	L
06092-1110624X15	M6	21	14	19	22	8	15

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Knurled knobs

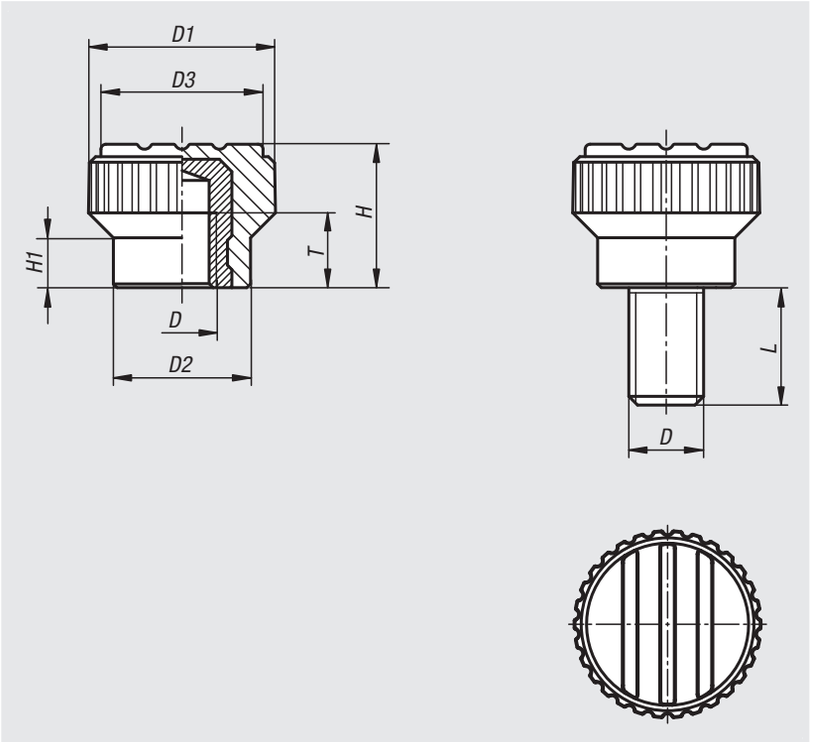


Material:
Grip black grey thermoplastic.
Bush brass or stainless steel 1.4305.
Screw steel 5.8 or stainless steel 1.4305.

Version:
Steel trivalent blue passivated.
Stainless steel, bright.

Sample order:
nlm 06094-005X12

On request:
Other colours.



Knurled knobs with internal thread

Order No.	Component material	D	D1	D2	D3	H	H1	T
06094-003	brass	M3	15	11	13	11,5	4,3	4,5
06094-004	brass	M4	15	11	13	11,5	4,3	6
06094-005	brass	M5	15	11	13	11,5	4,3	6
06094-0003	stainless steel	M3	15	11	13	11,5	4,3	4,5
06094-0004	stainless steel	M4	15	11	13	11,5	4,3	6
06094-0005	stainless steel	M5	15	11	13	11,5	4,3	6

Knurled knobs with external thread

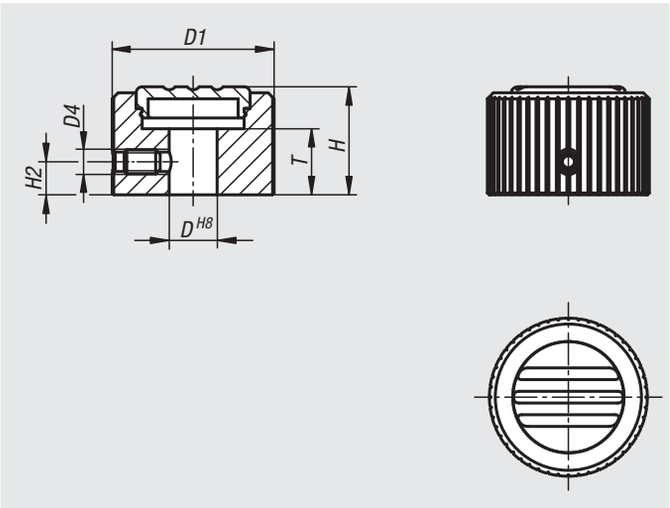
Order No.	Component material	D	D1	D2	D3	H	H1	L
06094-003X	steel	M3	15	11	13	11,5	4,3	8/10/12/15
06094-004X	steel	M4	15	11	13	11,5	4,3	8/10/12/15
06094-005X	steel	M5	15	11	13	11,5	4,3	10/12/15/20
06094-006X	steel	M6	15	11	13	11,5	4,3	10/15/20/25
06094-0003X	stainless steel	M3	15	11	13	11,5	4,3	8/10/12/15
06094-0004X	stainless steel	M4	15	11	13	11,5	4,3	8/10/12/15
06094-0005X	stainless steel	M5	15	11	13	11,5	4,3	10/12/15/20
06094-0006X	stainless steel	M6	15	11	13	11,5	4,3	10/15/20/25

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Knurled knobs

aluminium





Material:
Body aluminium.
Cap thermoplastic PA6.
Grub screw stainless steel.

Version:
Body black anodised.
Cap light grey RAL 7035.
Grub screw bright.

Sample order:
nlm 06096-27085

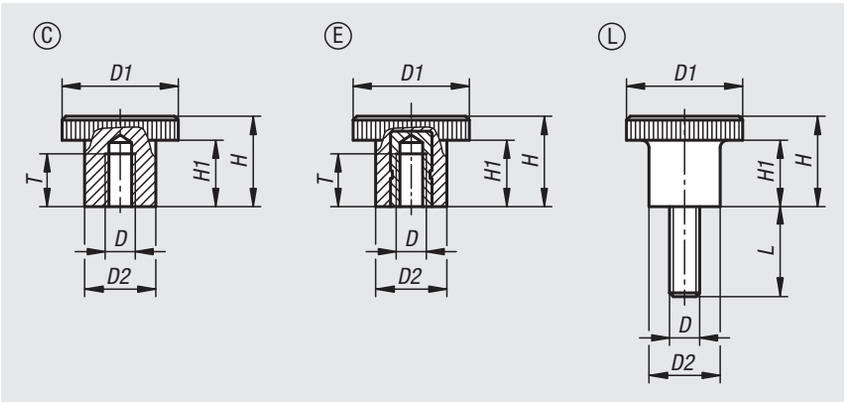
On request:
Other female threads, colours and special versions.

Order No.	D	D1	D4	H	H2	T
06096-27085	8	27	M4	18	5,5	11
06096-27105	10	27	M4	18	5,5	11
06096-34105	10	34	M5	21	7	11
06096-34125	12	34	M5	21	7	11
06096-42125	12	42	M5	24,5	8,5	15
06096-42145	14	42	M5	24,5	8,5	15

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Knurled knobs





Material:
Thermoset PF 31, black.
Screw, steel.
Tapped bush, steel or brass.

Version:
Screw, electro zinc-plated.
Tapped bush, electro zinc-plated or bright brass.

Sample order:
nlm 06097-302205X10

Drawing reference:
Form C: tapped blind hole
Form E: tapped bush
Form L: external thread

Knurled knobs with internal thread

Order No.	Form	Component material	D	D1	D2	H	H1	T
06097-102206	C	plastic	M6	22	12	13	6	7,5
06097-102606	C	plastic	M6	26	17	20	14	9
06097-212205	E	brass	M5	22	12	13	6	6
06097-202606	E	steel	M6	26	17	20	14	10
06097-202608	E	steel	M8	26	17	20	14	12

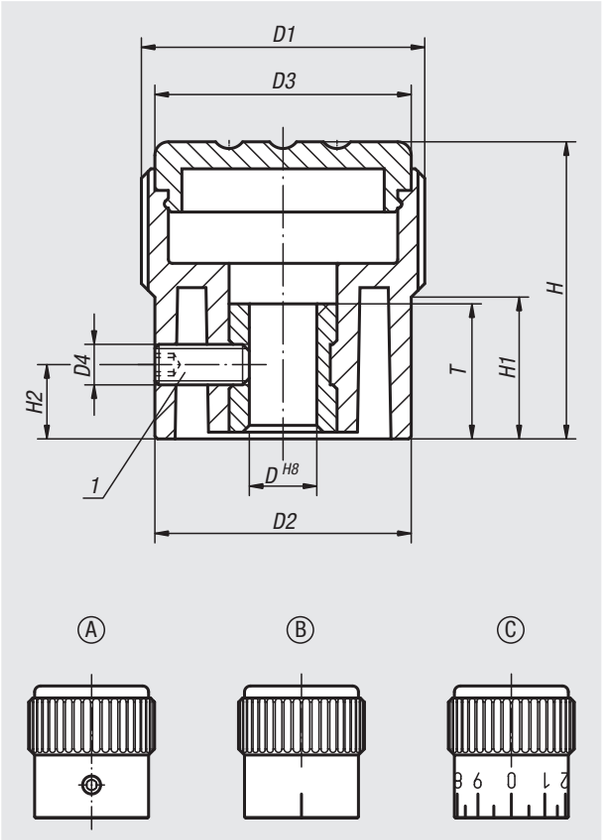
Knurled knobs with external thread

Order No.	Form	Component material	D	D1	D2	H	H1	L
06097-302206X	L	steel	M6	22	12	13	6	30/10/15/20
06097-302606X	L	steel	M6	26	15	13	6	15/30/10/20
06097-302205X	L	steel	M5	22	12	13	6	15/10/20
06097-302608X	L	steel	M8	26	15	13	6	20/15/30

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Knurled knobs





Material:
Thermoplastic, black grey.
Bush steel.

Version:
Steel trivalent blue passivated.

Sample order:
nlm 06100-11055 (cap colour light grey)

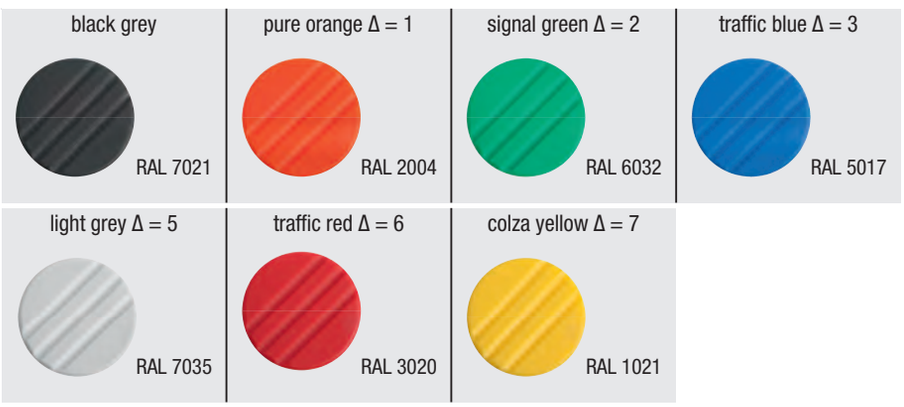
Note:
Available without graduations, with one scale line or with 20 graduations and 10 digits.

Δ Add the desired cap colour here. No colour code is required for black grey caps.

On request:
Special graduations.

Drawing reference:
Form A: without graduations
Form B: with one scale line
Form C: with standard graduations

1) Set screw for locking (by Form C between numbers 5 and 6)



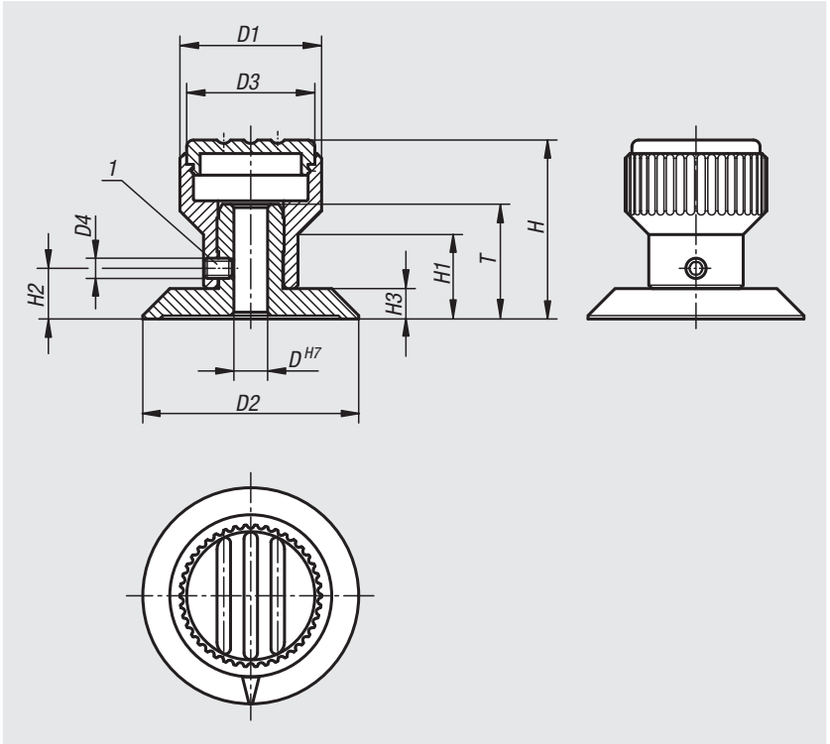
Order No.	Form	D	D1	D2	D3	D4	H	H1	H2	T
06100-1105Δ	A	5	21	19	19	M3	22	10,5	5	10
06100-1206Δ	A	6	26	23	23	M3	26	12	6	10
06100-1308Δ	A	8	34	31	31	M4	36	17,5	7	14
06100-2105Δ	B	5	21	19	19	M3	22	10,5	5	10
06100-2206Δ	B	6	26	23	23	M3	26	12	6	10
06100-2308Δ	B	8	34	31	31	M4	36	17,5	7	14
06100-3105Δ	C	5	21	19	19	M3	22	10,5	5	10
06100-3206Δ	C	6	26	23	23	M3	26	12	6	10
06100-3308Δ	C	8	34	31	31	M4	36	17,5	7	14

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Knurled knobs

with arrow





Material:
Knurled knob thermoplastic.
Washer aluminium.

Version:
Aluminium black anodised.

Sample order:
nlm 06105-1055 (cap colour light grey)

Note:
The arrow is engraved after anodizing. The set screw secures both the hub and the pressed-in washer. The H7 hole in the hub ensures a good tight fit on the shaft.

Δ Add the desired cap colour here. No colour code is required for black grey caps.

Drawing reference:
1) set screw

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

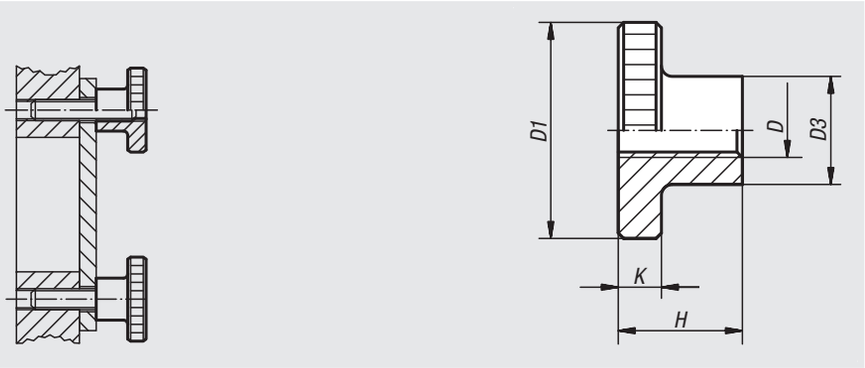
Order No.	D	D1	D2	D3	D4	H	H1	H2	H3	T
06105-105Δ	5	21	32	19	M3	26,5	12,5	7,5	4,5	17
06105-206Δ	6	26	40	23	M4	31,5	15	9,5	5,5	20,5
06105-308Δ	8	34	52	31	M4	43	20	12	7	22

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Knurled nuts high

steel and stainless steel, DIN 466





Material:
Steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
nlm 06110-04

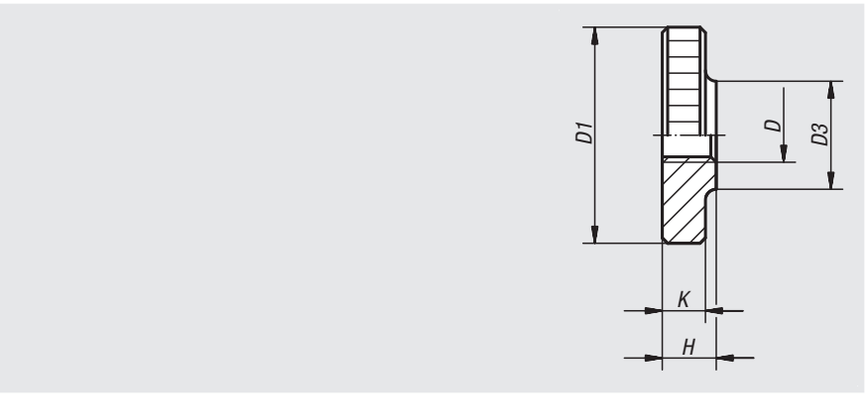
Note:
M12 high knurled nuts are not included in the official standards sheet.

Order No. stainless steel	Order No. steel	D	D1	D3	H	K
06110-042	**06110-04**	M4	16	8	9,5	3,5
06110-052	**06110-05**	M5	20	10	11,5	4
06110-062	**06110-06**	M6	24	12	15	5
06110-082	**06110-08**	M8	30	16	18	6
06110-122	**06110-12**	M12	36	20	23	8
06110-102	**06110-10**	M10	36	20	23	8

Knurled nuts flat

steel and stainless steel, DIN 467





Material:
Steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
nlm 06120-042

Note:
M12 flat knurled nuts are not included in the official standards sheet.

Order No. stainless steel	Order No. steel	D	D1	D3	H	K
06120-042	**06120-04**	M4	16	8	4	3,5
06120-052	**06120-05**	M5	20	10	5	4
06120-062	**06120-06**	M6	24	12	6	5
06120-082	**06120-08**	M8	30	16	8	6
06120-122	**06120-12**	M12	36	20	10	8
06120-102	**06120-10**	M10	36	20	10	8

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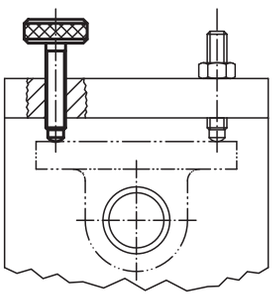
Knurled screws

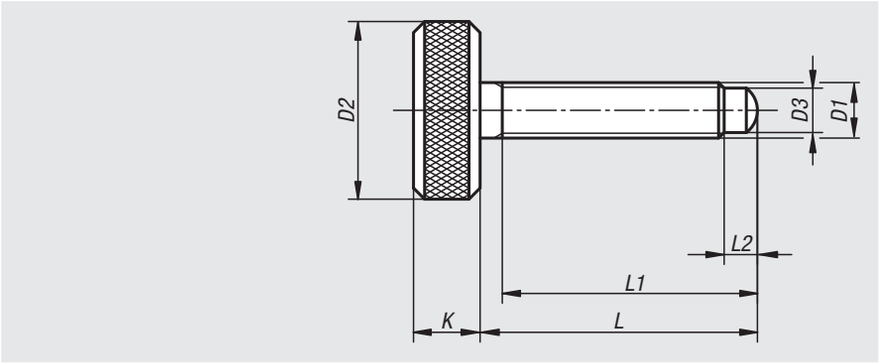


Material:
Carbon steel.

Version:
Tempered and black oxidised.

Sample order:
nlm 06130-061X50





Order No.	D1	D2	D3	K	L	L1	L2
06130-05X25	M5	16	4	6	25	23	3
06130-051X40	M5	16	4	6	40	38	3
06130-06X35	M6	18	4,5	7	35	33	3,5
06130-061X50	M6	18	4,5	7	50	48	3,5
06130-062X70	M6	18	4,5	7	70	68	3,5
06130-08X45	M8	20	6	8	45	42	5
06130-081X60	M8	20	6	8	60	57	5
06130-10X45	M10	25	7,5	10	45	42	5,5
06130-101X60	M10	25	7,5	10	60	57	5,5

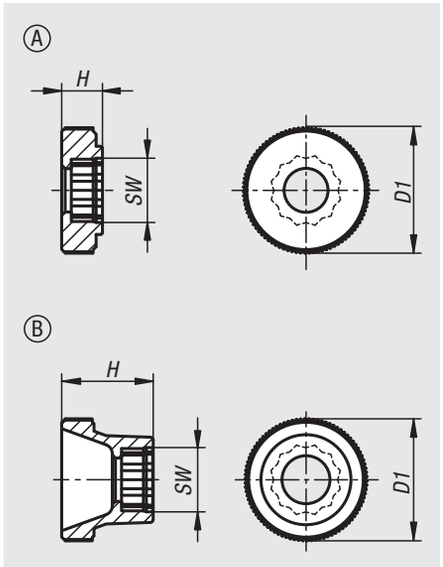
Notes

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Knurled knobs

for screws with hex head





Material:
Thermoplastic.

Version:
Black or orange.

Sample order:
nlm 06131-00040 (knurled knob colour black)
Colour code:
0=black
1=orange

Note:
Suitable screws ISO 4014.

Δ add the desired colour code here

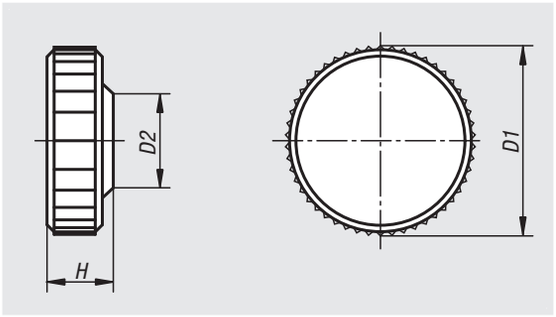
Order No.	Form	for screws	D1	H	SW
06131-0Δ040	A	M4	17	5,5	7
06131-0Δ050	A	M5	20	6,5	8
06131-0Δ060	A	M6	25	8	10
06131-0Δ080	A	M8	36	10	13
06131-0Δ100	A	M10	36	10	17
06131-1Δ040	B	M4	17	11,5	7
06131-1Δ050	B	M5	20	15	8
06131-1Δ060	B	M6	25	18	10
06131-1Δ080	B	M8	36	23	13
06131-1Δ100	B	M10	36	23	17

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Knurled heads

for hexagon socket screws





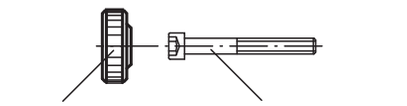
Material:
Thermoplastic.

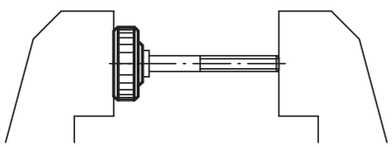
Version:
Black, grey or red.

Sample order:
nlm 06132-0506 (knurled head colour red)
Colour Code:
5 = grey
6 = red

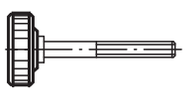
Note:
Suitable screws ISO 4762.

Δ Add the desired colour code here.
No colour code is required for black.





press the screw into the head



knurled head with male thread

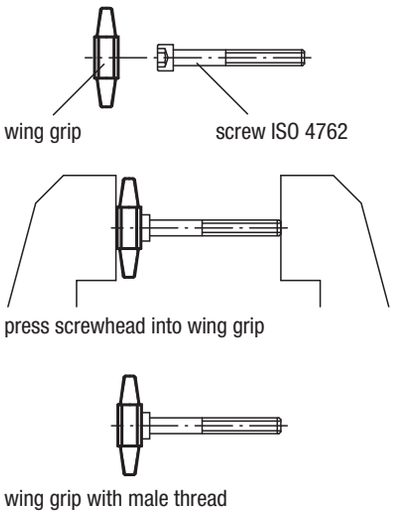
Order No.	D1	D2	H	for cap screws
06132-030Δ	9,5	8,3	4,5	M3
06132-040Δ	13	9,6	5	M4
06132-050Δ	16	11,5	6,5	M5
06132-060Δ	19	14	7,5	M6
06132-061Δ	26	13	8	M6
06132-080Δ	26	16	10	M8

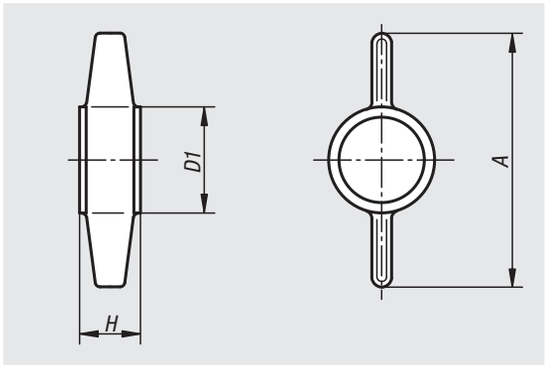
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Wing grips

for hexagon socket screws







Material:
Thermoplastic.

Version:
Black, grey or red.

Sample order:
nlm 06133-0506 (wing grip colour red)
Colour code:
5 = grey
6 = red

Note:
Suitable screws ISO 4762.

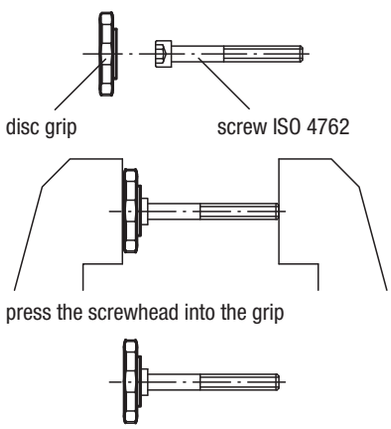
Δ Add the desired grip colour here. No colour code is required for black grips.

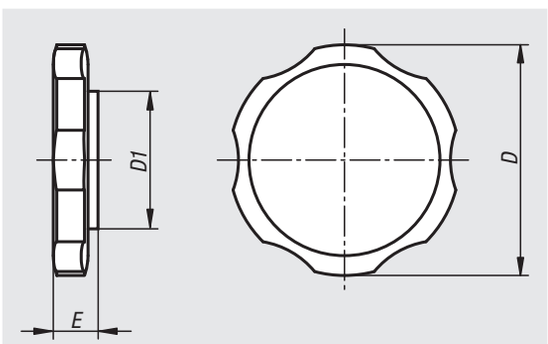
Order No.	A	D1	H	for cap screws
06133-050Δ	26	12	7	M5
06133-060Δ	30	13,5	8	M6
06133-080Δ	38	17	10	M8
06133-100Δ	45	20	12,5	M10

Disc grips

for hexagon socket screws







Material:
Thermoplastic.

Version:
Black or grey

Sample order:
nlm 06134-0805 (disc grip colour grey)
Colour Code:
5 = grey

Note:
Suitable screws see ISO 4762.

Δ Add the desired grip colour here. No colour code is required for black grips

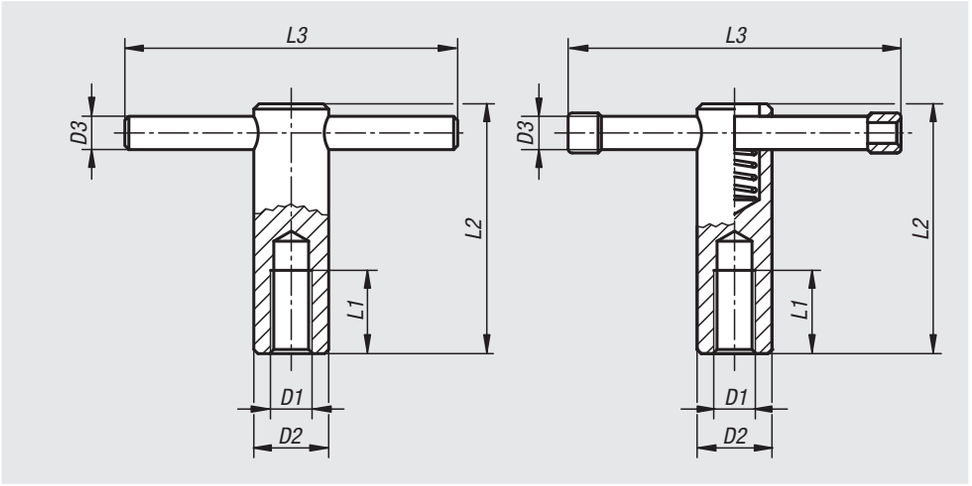
Order No.	D	D1	E	for cap screws
06134-060Δ	38	14	13	M6
06134-080Δ	38	17	11,5	M8
06134-100Δ	38	20	13	M10

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Tommy bars

with fixed or sliding T-bar, DIN 6305 or DIN 6307



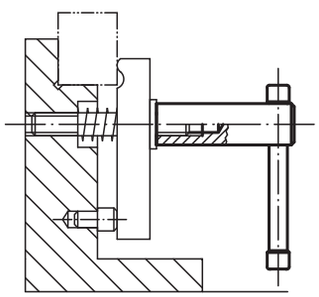


Material:
Steel.

Version:
Black oxidised.

Sample order:
nlm 06140-210

Note:
By the version with sliding T-bar the bar is held in any desired position by a spring in the body. End stops prevent the bar falling out.
By the version with fixed T-bar the bar is pressed in.

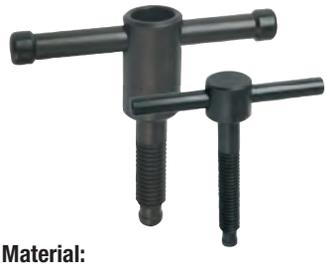


Order No.	Version 1	D1	D2	D3	L1	L2	L3
06140-110	fixed t-bar	M10	18	8	20	60	80
06140-112	fixed t-bar	M12	20	10	25	70	100
06140-116	fixed t-bar	M16	24	12	35	85	120
06140-120	fixed t-bar	M20	30	16	40	95	140
06140-210	sliding t-bar	M10	18	8	20	60	80
06140-212	sliding t-bar	M12	20	10	25	70	100
06140-216	sliding t-bar	M16	24	13	35	85	120
06140-220	sliding t-bar	M20	30	16	40	95	140

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T-thrust screws

with fixed or sliding T-bar, DIN 6304 or DIN 6306

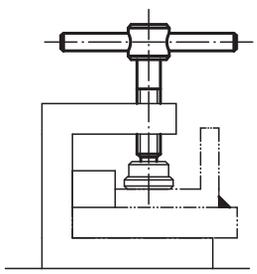


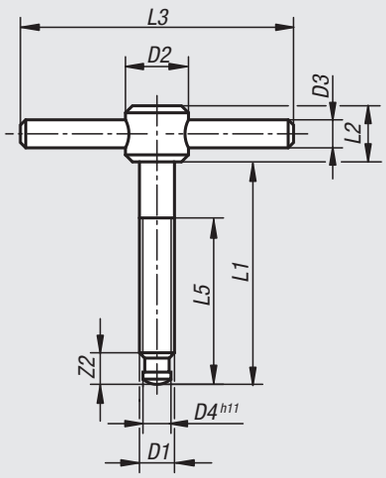
Material:
Steel.

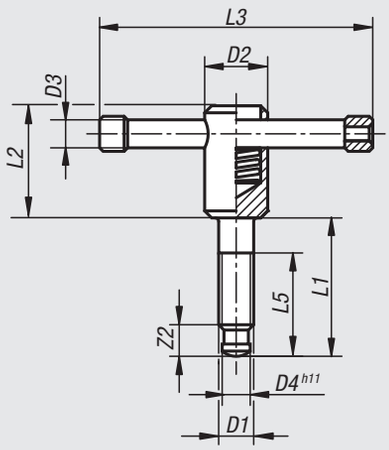
Version:
Black oxidised. Thrust pin hardened.

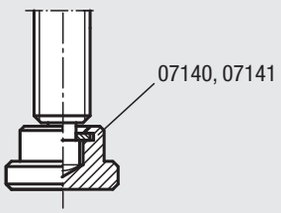
Sample order:
nlm 06150-116X90

Note:
By the thrust screws with sliding T-bar the bar is held in any desired position by a spring in the body. End stops prevent the bar falling out. By the fixed handles the T-bar is pressed in.



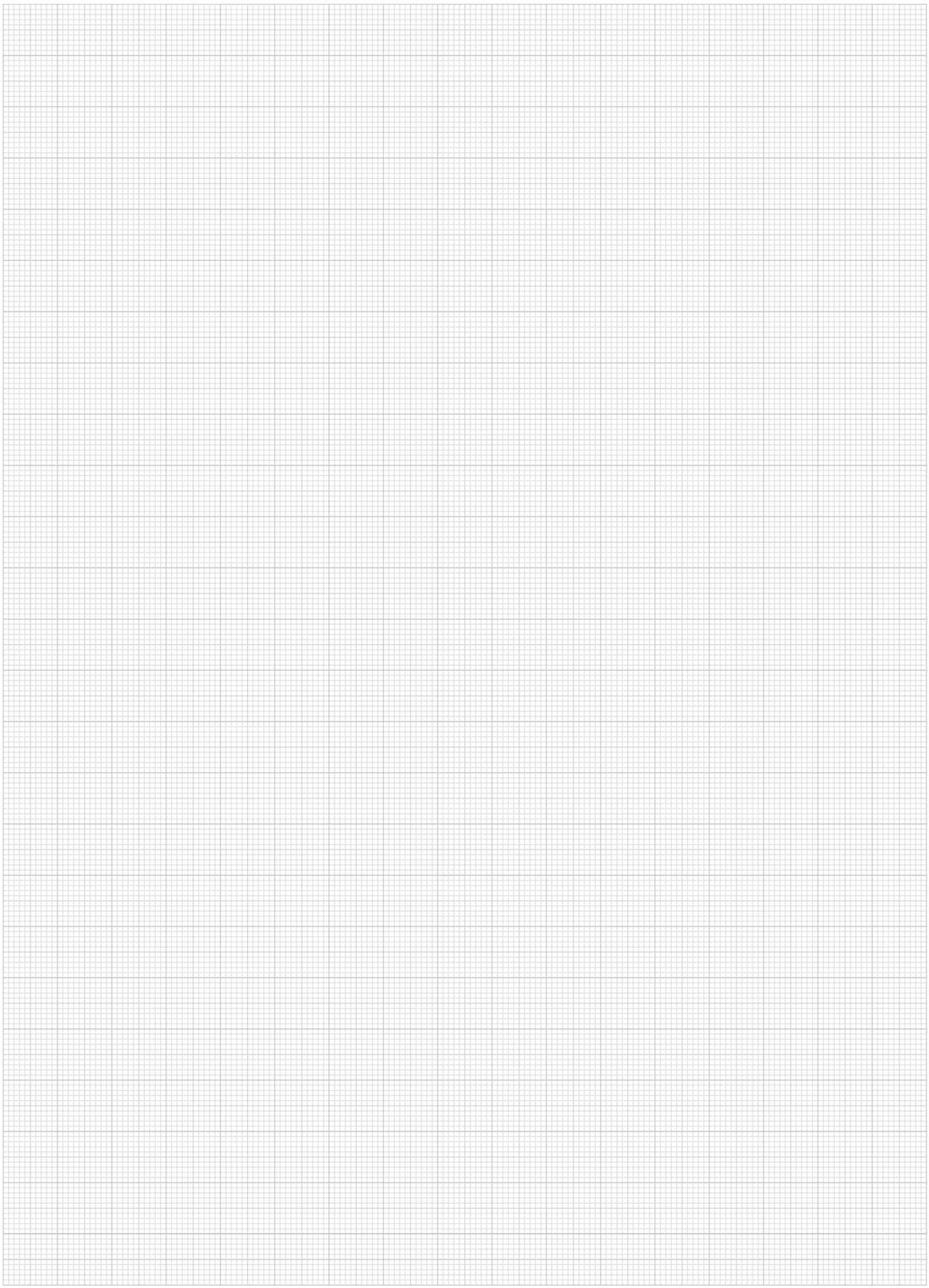






Order No.	Version 1	D1	D2	D3	D4	L1	L2	L3	L5	Z2
06150-106X40	fixed t-bar	M6	12	5	4,5	40	10	50	30	6
06150-106X50	fixed t-bar	M6	12	5	4,5	50	10	50	40	6
06150-108X50	fixed t-bar	M8	14	6	6	50	12	60	35	7,5
06150-108X60	fixed t-bar	M8	14	6	6	60	12	60	45	7,5
06150-110X60	fixed t-bar	M10	18	8	8	60	14	80	40	9
06150-110X70	fixed t-bar	M10	18	8	8	70	14	80	50	9
06150-112X70	fixed t-bar	M12	20	10	8	70	18	100	50	10
06150-112X80	fixed t-bar	M12	20	10	8	80	18	100	60	10
06150-116X75	fixed t-bar	M16	24	12	12	75	20	120	55	12
06150-116X90	fixed t-bar	M16	24	12	12	90	20	120	70	12
06150-116X110	fixed t-bar	M16	24	12	12	110	20	120	90	12
06150-120X75	fixed t-bar	M20	30	16	15,5	75	28	140	55	14
06150-120X90	fixed t-bar	M20	30	16	15,5	90	28	140	70	14
06150-120X110	fixed t-bar	M20	30	16	15,5	110	28	140	90	14
06150-210X40	sliding t-bar	M10	18	8	8	40	32	80	30	9
06150-210X50	sliding t-bar	M10	18	8	8	50	32	80	40	9
06150-212X50	sliding t-bar	M12	20	10	8	50	35	100	40	10
06150-212X60	sliding t-bar	M12	20	10	8	60	35	100	50	10
06150-216X55	sliding t-bar	M16	24	13	12	55	40	120	45	12
06150-216X70	sliding t-bar	M16	24	13	12	70	40	120	60	12
06150-216X90	sliding t-bar	M16	24	13	12	90	40	120	80	12
06150-220X55	sliding t-bar	M20	30	16	15,5	55	45	140	45	14
06150-220X70	sliding t-bar	M20	30	16	15,5	70	45	140	60	14
06150-220X90	sliding t-bar	M20	30	16	15,5	90	45	140	80	14

Notes

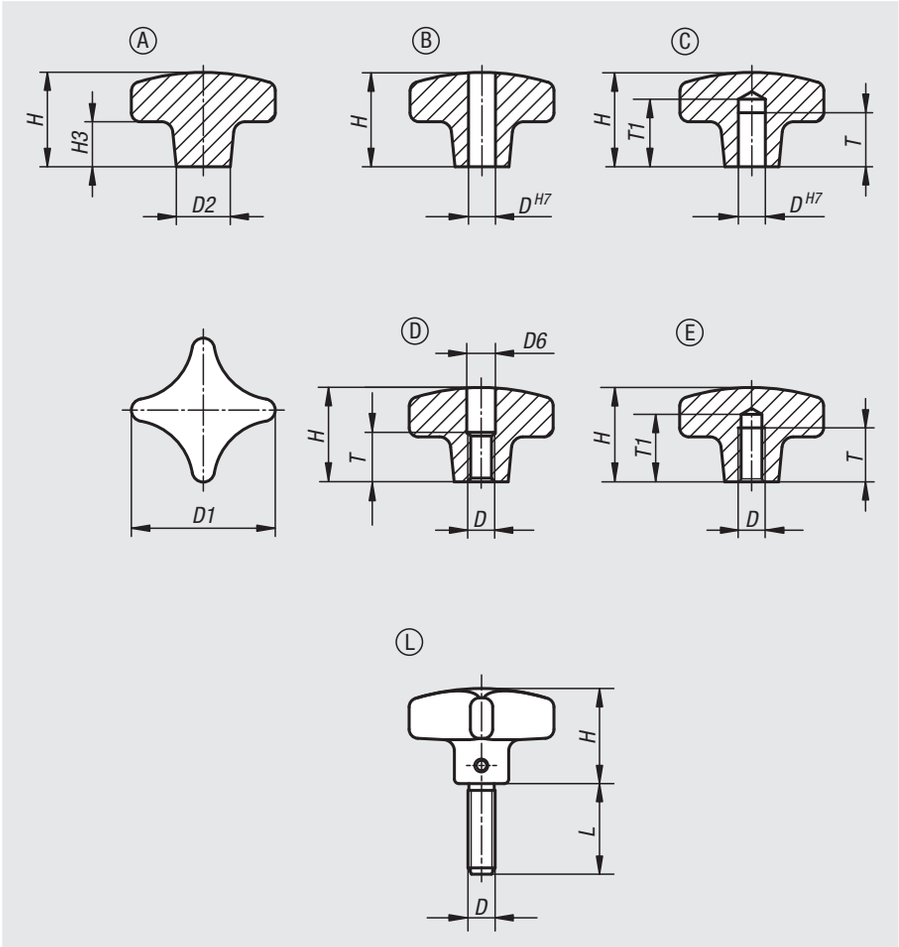


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Palm grips

aluminium, similar to DIN 6335





Material:
Aluminium.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground or ground and polished.
Grub screw and pin bright.

Sample order:
nlm 06156-604008X20 (include length L.)

On request:
Blank palm grips (not tumbled).

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

Order No.	Surface finish body	Form	D1	D2	H	H3
06156-104008	tumbled	A	40	14	26	14
06156-105010	tumbled	A	50	18	34	20
06156-106312	tumbled	A	63	25	42	25
06156-108016	tumbled	A	80	25	52	30

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Palm grips

aluminium, similar to DIN 6335

Order No. tumbled	Order No. polished	Form	D	D1	D2	H
06156-204008	06156-2040082	B	8	40	14	25
06156-205010	06156-2050102	B	10	50	18	32
06156-206312	06156-2063122	B	12	63	25	40
06156-208016	06156-2080162	B	16	80	25	50

Order No. tumbled	Order No. polished	Form	D	D1	D2	H	T	T1
06156-304008	06156-3040082	C	8	40	14	25	15	18
06156-305010	06156-3050102	C	10	50	18	32	18	21
06156-306312	06156-3063122	C	12	63	25	40	22	25
06156-308016	06156-3080162	C	16	80	25	50	28	32

Order No. tumbled	Order No. polished	Form	D	D1	D2	D6	H	T
06156-404008	06156-4040082	D	M8	40	14	8,4	25	15
06156-405010	06156-4050102	D	M10	50	18	10,5	32	18
06156-406312	06156-4063122	D	M12	63	25	13	40	22
06156-408016	06156-4080162	D	M16	80	25	17	50	28

Order No. tumbled	Order No. polished	Form	D	D1	D2	H	T	T1
06156-504008	06156-5040082	E	M8	40	14	25	15	18
06156-505010	06156-5050102	E	M10	50	18	32	18	21
06156-506312	06156-5063122	E	M12	63	25	40	22	25
06156-508016	06156-5080162	E	M16	80	25	50	28	32

Order No.	Form	Surface finish body	D	D1	D2	H	L
06156-604008X	L	vibratory ground	M8	40	14	25	20/25/30/40/50
06156-605010X	L	vibratory ground	M10	50	18	32	20/25/30/40/50
06156-606312X	L	vibratory ground	M12	63	25	40	20/30/40/50

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Palm grips

stainless steel, similar to DIN 6335

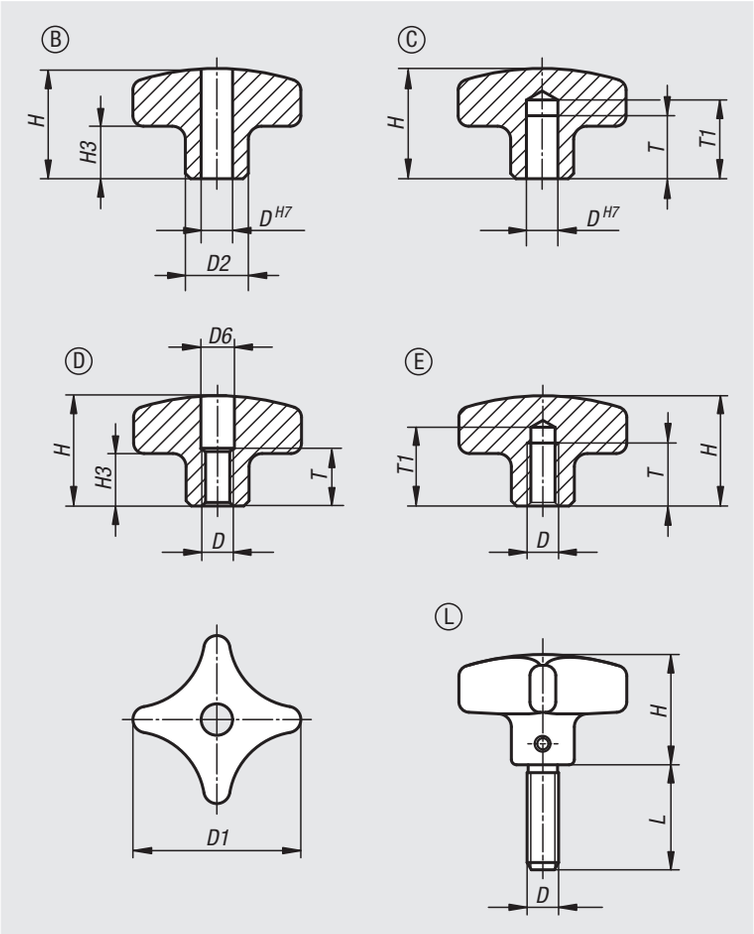


Material:
Stainless steel 1.4308.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Ground and polished or blasted.
Grub screw and pin bright.

Sample order:
nlm 06158-6032063X20 (include length L.)

Drawing reference:
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread



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Palm grips

stainless steel, similar to DIN 6335

Order No. Form B	Order No. Form C	Main colour	D	D1	D2	H	H3	T	T1
06158-2032062	**06158-3032062**	polished	6	32	12	21	10	-/12	-/15
06158-2040082	**06158-3040082**	polished	8	40	14	26	14	-/15	-/18
06158-2050102	**06158-3050102**	polished	10	50	18	34	20	-/18	-/21
06158-2063122	**06158-3063122**	polished	12	63	20	42	25	-/22	-/25
06158-2032063	**06158-3032063**	blasted	6	32	12	21	10	-/12	-/15
06158-2040083	**06158-3040083**	blasted	8	40	14	26	14	-/15	-/18
06158-2050103	**06158-3050103**	blasted	10	50	18	34	20	-/18	-/21
06158-2063123	**06158-3063123**	blasted	12	63	20	42	25	-/22	-/25

Order No. Form D	Order No. Form E	Main colour	D	D1	D2	D6	H	H3	T	T1
06158-4032062	**06158-5032062**	polished	M6	32	12	6,4/-	21	10	11/12	-/15
06158-4040082	**06158-5040082**	polished	M8	40	14	8,4/-	26	14	14/15	-/18
06158-4050102	**06158-5050102**	polished	M10	50	18	10,5/-	34	20	18	-/21
06158-4063122	**06158-5063122**	polished	M12	63	20	13/-	42	25	22	-/25
06158-4032063	**06158-5032063**	blasted	M6	32	12	6,4/-	21	10	11/12	-/15
06158-4040083	**06158-5040083**	blasted	M8	40	14	8,4/-	26	14	14/15	-/18
06158-4050103	**06158-5050103**	blasted	M10	50	18	10,5/-	34	20	18	-/21
06158-4063123	**06158-5063123**	blasted	M12	63	20	13/-	42	25	22	-/25

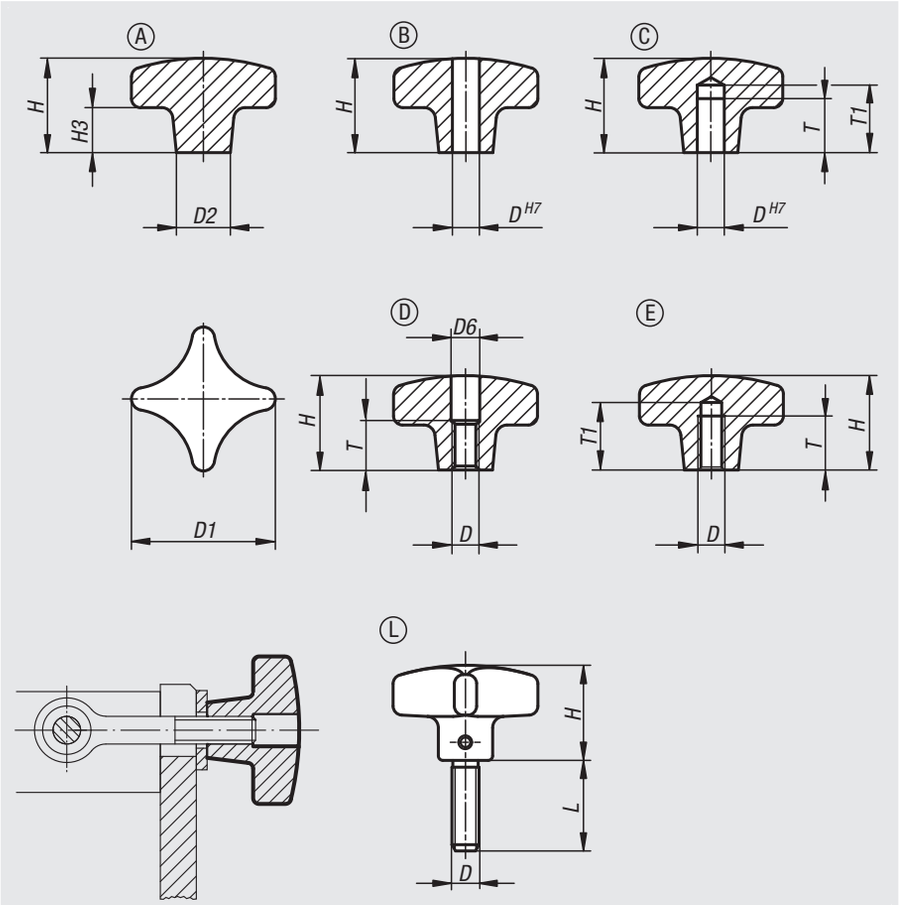
Order No.	Form	Main colour	D	D1	D2	H	H3	L
06158-6032063X	L	blasted	M6	32	12	21	10	15/20/25/30/40/50
06158-6040083X	L	blasted	M8	40	14	26	14	20/25/30/40/50
06158-6050103X	L	blasted	M10	50	18	34	20	20/25/30/40/50
06158-6063123X	L	blasted	M12	63	20	42	25	20/30/40/50

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Palm grips

grey cast iron DIN 6335





Material:
Grey cast iron GJL 200.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground, bright.
Grub screw and pin bright.

Sample order:
nlm 06160-606X20 (include length L.)

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

Order No. Form A	Order No. Form B	Version 1	D	D1	D2	H	H3
06160-106	**06160-206**	tumbled	-/6	32	12	21/20	10
06160-108	**06160-208**	tumbled	-/8	40	14	26/25	14
06160-110	**06160-210**	tumbled	-/10	50	18	34/32	20
06160-112	**06160-212**	tumbled	-/12	63	20	42/40	25
06160-116	**06160-216**	tumbled	-/16	80	25	52/50	30
06160-120	**06160-220**	tumbled	-/20	100	32	65/63	38

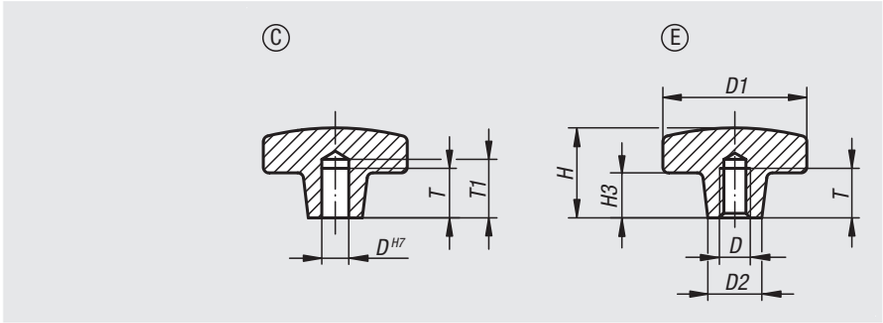
Order No. Form C	Order No. Form D	Order No. Form E	Version 1	D	D1	D2	H	H3	T	T1
06160-306	**06160-406**	**06160-506**	tumbled	6 / M6 / M6	32	12	20	10	12/10/12	15/-/15
06160-308	**06160-408**	**06160-508**	tumbled	8 / M8 / M8	40	14	25	14	15/13/15	18/-/18
06160-310	**06160-410**	**06160-510**	tumbled	10 / M10 / M10	50	18	32	20	18/16/18	21/-/21
06160-312	**06160-412**	**06160-512**	tumbled	12 / M12 / M12	63	20	40	25	22/20/22	25/-/25
06160-316	**06160-416**	**06160-516**	tumbled	16 / M16 / M16	80	25	50	30	28/20/28	32/-/32
06160-320	**06160-420**	**06160-520**	tumbled	20 / M20 / M20	100	32	63	38	36/25/36	40/-/40

Order No.	Form	Version 1	D	D1	H	L
06160-606X	L	tumbled	M6	32	20	15/20/25/30/40/50
06160-608X	L	tumbled	M8	40	25	20/25/30/40/50
06160-610X	L	tumbled	M10	50	32	20/25/30/40/50
06160-612X	L	tumbled	M12	63	40	20/30/40/50

Palm grips

plastic coated grey cast iron, DIN 6335





Material:
Grey cast iron GJL 200.

Version:
Plastic coated.

Sample order:
nlm 06161-212

Note:
Available colours:
Pure orange RAL 2004.
Jet black RAL 9005.

Drawing reference:
Form C: blind hole
Form E: tapped blind hole

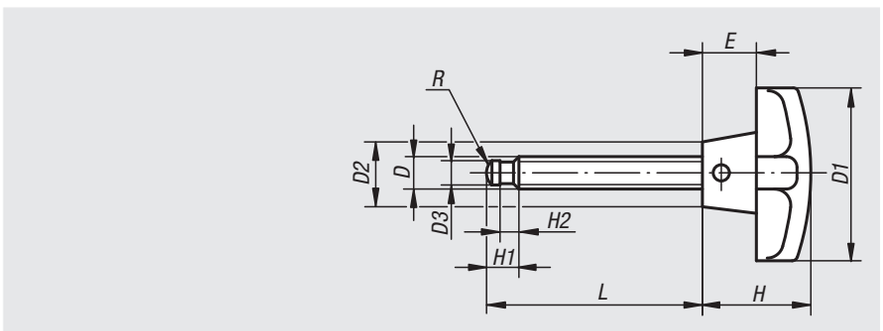
Order No. orange	Order No. black	Form	D	D1	D2	H	H3	T	T1
06161-108	**06161-208**	C	8	40	14	26	14	15	18
06161-110	**06161-210**	C	10	50	18	34	20	18	21
06161-112	**06161-212**	C	12	63	20	42	25	22	25
06161-116	**06161-216**	C	16	80	25	52	30	28	32
06161-308	**06161-408**	E	M8	40	14	26	14	15	-
06161-310	**06161-410**	E	M10	50	18	34	20	18	-
06161-312	**06161-412**	E	M12	63	20	42	25	22	-
06161-316	**06161-416**	E	M16	80	25	52	30	28	-

06170

Palm grips

with threaded spindle





Material:
Palm grip grey cast iron.
Grup screw steel.

Version:
Palm grip painted.
Grub screw black oxidised.

Sample order:
nlm 06170-100064

Note:
The grub screw is screwed and pinned into the palm grip.

Order No.	D	D1	D2	D3	E	H	H1	H2	L	R
06170-060020	M6	32	12	4,5	10	20	6	2,5	20	3
06170-060040	M6	32	12	4,5	10	20	6	2,5	40	3
06170-080027	M8	40	14	6	14	25	7,5	3	27	5
06170-080047	M8	40	14	6	14	25	7,5	3	47	5
06170-100044	M10	50	18	8	20	32	9	4,5	44	6
06170-100064	M10	50	18	8	20	32	9	4,5	64	6
06170-120040	M12	63	20	8	25	40	10	4,5	40	6
06170-120060	M12	63	20	8	25	40	10	4,5	60	6
06170-120080	M12	63	20	8	25	40	10	4,5	80	6
06170-160052	M16	80	25	12	30	50	12	5	52	9
06170-160072	M16	80	25	12	30	50	12	5	72	9
06170-160097	M16	80	25	12	30	50	12	5	97	9

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Palm grips

similar to DIN 6335

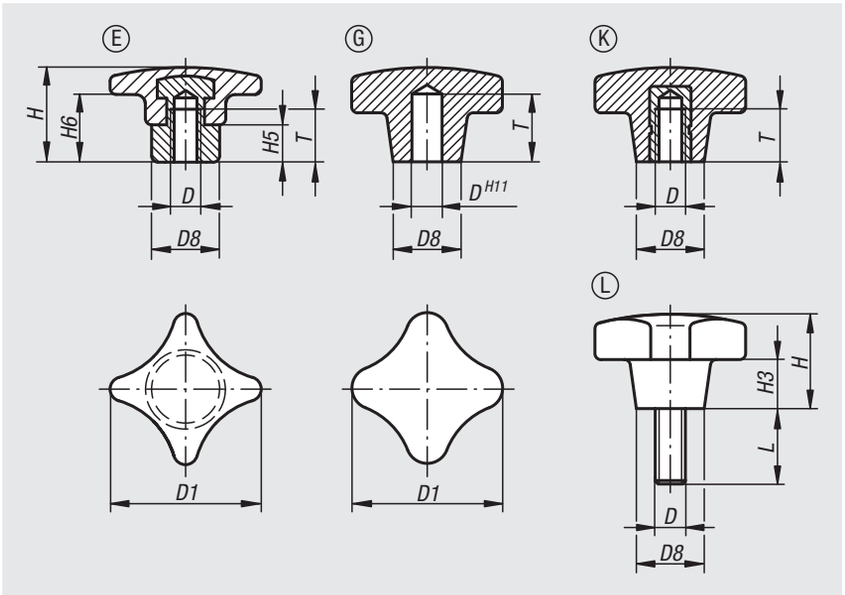


Material:
Black thermoset PF 31.
Bush and screw electro zinc-plated steel.

Version:
High-gloss polished.

Sample order:
nlm 06180-505X30
(include length L)

Drawing reference:
Form E: projecting steel bush
Form G: blind hole
Form K: tapped bush
Form L: external thread



Order No.	Form	D	D1	D8	H	H5	H6	T
06180-306	E	M6	32	12	23	9	12	12
06180-308	E	M8	40	14	26	10	13	15
06180-310	E	M10	50	18	32	12	18	18
06180-312	E	M12	63	20	40	14	23	22
06180-316	E	M16	80	25	50	17	28	28

Order No.	Form	D	D1	D8	H	H3	T
06180-405	G	5	25	12	16	8	12
06180-406	G	6	32	14	20	10	15
06180-408	G	8	40	18	25	13	18
06180-410	G	10	50	22	32	20	21
06180-412	G	12	63	26	40	25	25

Order No.	Form	D	D1	D8	H	H3	T
06180-205	K	M5	25	12	16	8	9,5
06180-206	K	M6	32	14	20	10	12
06180-208	K	M8	40	18	25	13	14
06180-210	K	M10	50	22	32	20	18
06180-212	K	M12	63	26	40	25	22
06180-216	K	M16	80	35	50	30	30

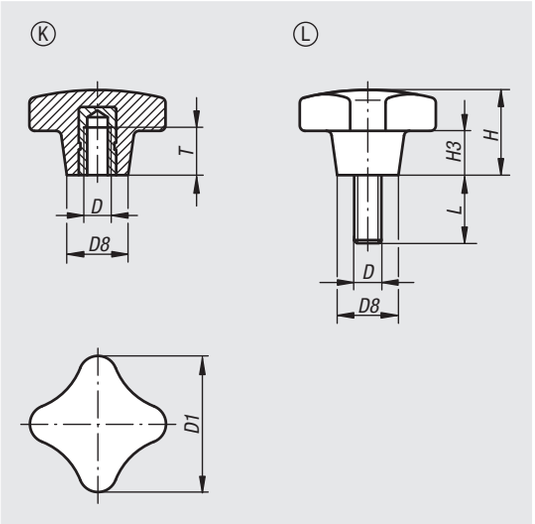
Order No.	Form	D	D1	D8	H	H3	L
06180-505X	L	M5	25	12	16	8	15/20/25/30/40/50
06180-506X	L	M6	32	14	20	10	15/20/25/30/40/50
06180-508X	L	M8	40	18	25	13	20/25/30/35/40/45/50
06180-510X	L	M10	50	22	32	20	20/25/30/35/40/45/50
06180-512X	L	M12	63	26	40	25	20/30/40/50/60

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Palm grips

similar to DIN 6335 metal parts stainless-steel





Material:
Thermoset PF 31, black.
Metal parts stainless steel 1.4301.

Version:
High-gloss polished, black.

Sample order:
nlm 06181-22505 (Form K)
06181-52505x15 (Form L)

Drawing reference:
Form K: tapped bush
Form L: external thread

Order No.	Form	Component material	D	D1	D8	H	H3	T
06181-22505	K	stainless steel	M5	25	12	16	8	9,5
06181-23206	K	stainless steel	M6	32	14	20	10	12
06181-24008	K	stainless steel	M8	40	18	25	13	14
06181-25010	K	stainless steel	M10	50	22	32	20	18
06181-26312	K	stainless steel	M12	63	26	40	25	22

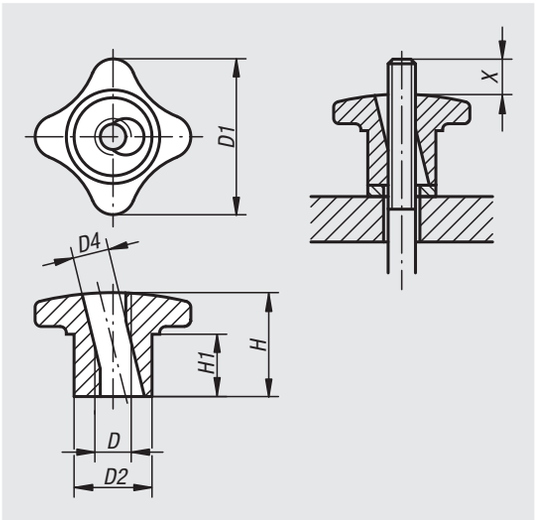
Order No.	Form	Component material	D	D1	D8	H	H3	L
06181-52505X15	L	stainless steel	M5	25	12	16	8	15
06181-52505X20	L	stainless steel	M5	25	12	16	8	20
06181-53206X15	L	stainless steel	M6	32	14	20	10	15
06181-53206X20	L	stainless steel	M6	32	14	20	10	20
06181-53206X25	L	stainless steel	M6	32	14	20	10	25
06181-53206X30	L	stainless steel	M6	32	14	20	10	30
06181-53206X40	L	stainless steel	M6	32	14	20	10	40
06181-53206X50	L	stainless steel	M6	32	14	20	10	50
06181-54008X20	L	stainless steel	M8	40	18	25	13	20
06181-54008X25	L	stainless steel	M8	40	18	25	13	25
06181-54008X30	L	stainless steel	M8	40	18	25	13	30
06181-54008X40	L	stainless steel	M8	40	18	25	13	40
06181-54008X50	L	stainless steel	M8	40	18	25	13	50

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Palm grips quick-acting

grey cast iron





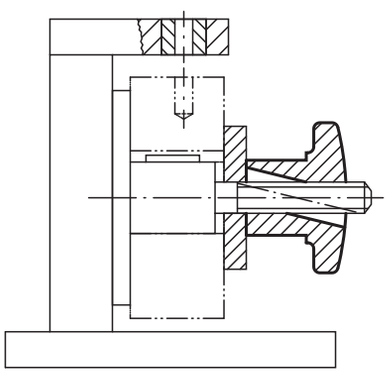
Material:
Grey cast iron GJL 300

Version:
Vibratory ground.

Sample order:
nlm 06190-08

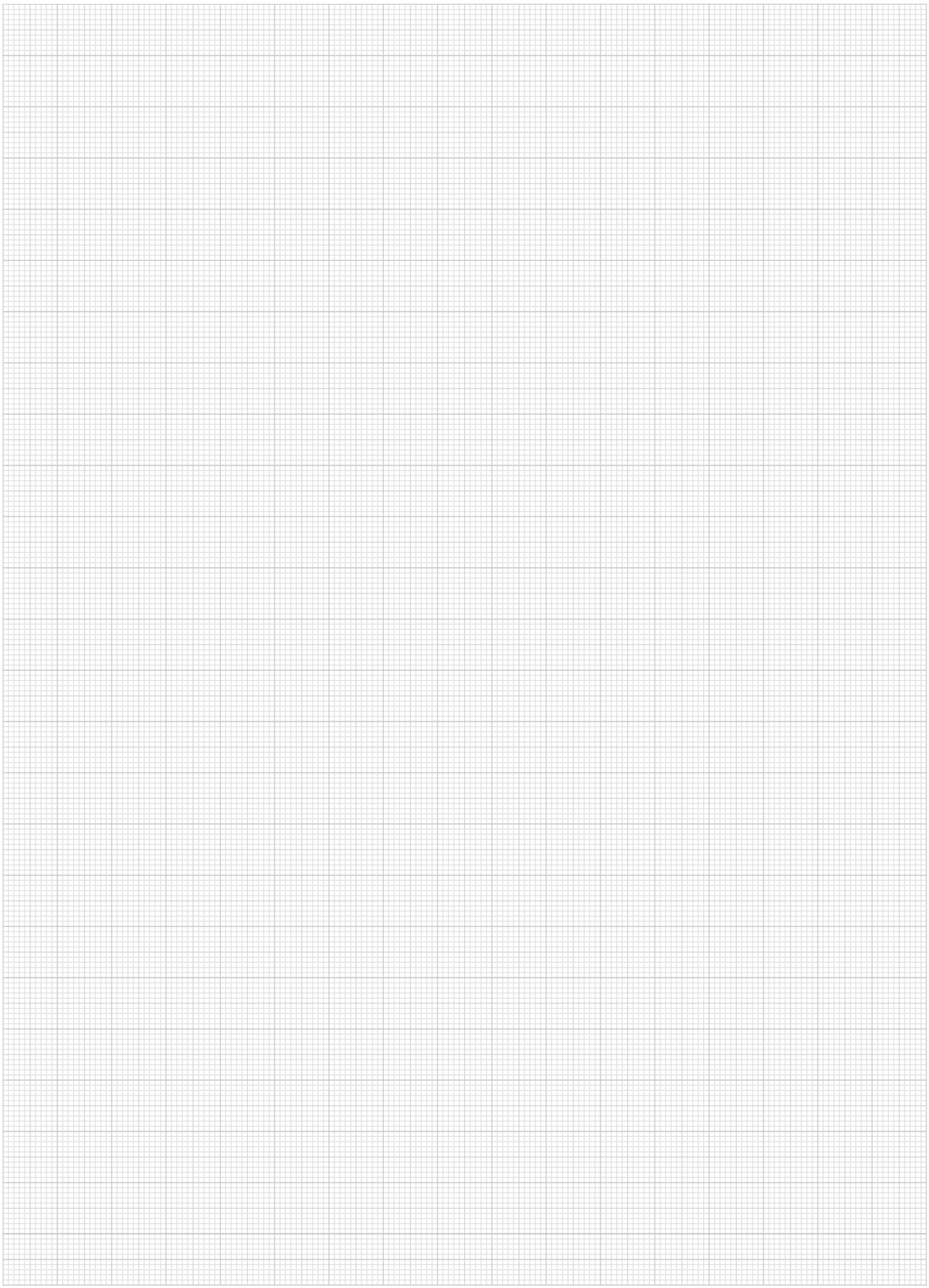
Note:
Quick-acting palm grips can be used on all fixtures that do not require a high clamping force.
Tilt the grip to slide on, then straighten it to engage the threads.

Drawing reference:
X: The stud should be several mm longer than height “H”



Order No.	D	D1	D2	D4	H	H1
06190-06	M6	30	15	7	20	10
06190-08	M8	40	18	9,4	25	14
06190-10	M10	50	21	11,3	30	16
06190-12	M12	60	26	13,1	35	19
06190-14	M14	70	30	15,6	40	22
06190-16	M16	80	34	17,6	45	25

Notes

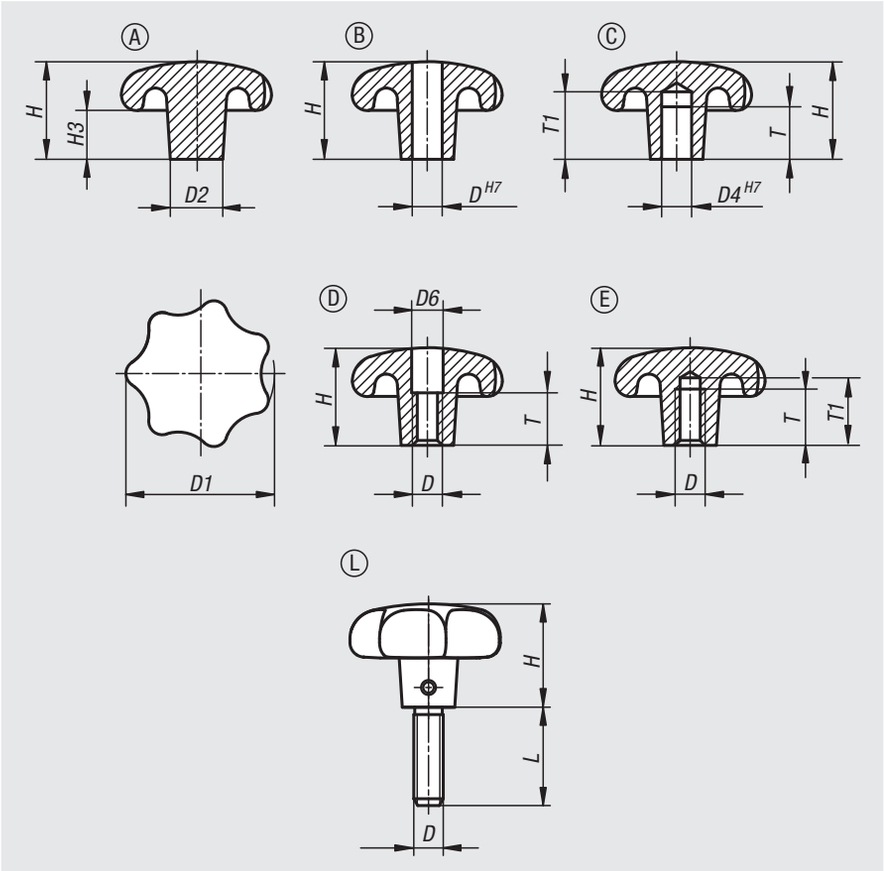


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Star grips

aluminium, similar to DIN 6336





Material:
Aluminium.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground or ground and polished.
Grub screw and pin bright.

Sample order:
nlm 06192-64008X20 (include length L.)

On request:
Blank star grips (not tumbled).

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

Order No.	Form	Surface finish body	D1	D2	H	H3
06192-14008	A	tumbled	40	14	26	13
06192-15010	A	tumbled	50	18	34	17
06192-16312	A	tumbled	63	20	42	21
06192-18016	A	tumbled	80	25	52	25

Order No. tumbled	Order No. polished	Form	D	D1	D2	H
06192-24008	**06192-240082**	B	8	40	14	25
06192-25010	**06192-250102**	B	10	50	18	32
06192-26312	**06192-263122**	B	12	63	20	40
06192-28016	**06192-280162**	B	16	80	25	50

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Star grips

aluminium, similar to DIN 6336

Order No. tumbled	Order No. polished	Form	D	D1	D2	H	T	T1
06192-34008	06192-340082	C	8	40	14	25	15	18
06192-35010	06192-350102	C	10	50	18	32	18	21
06192-36312	06192-363122	C	12	63	20	40	22	25
06192-38016	06192-380162	C	16	80	25	50	28	32

Order No. tumbled	Order No. polished	Form	D	D1	D2	D6	H	T
06192-44008	06192-440082	D	M8	40	14	8,4	25	12
06192-45010	06192-450102	D	M10	50	18	10,5	32	16
06192-46312	06192-463122	D	M12	63	20	13	40	20
06192-48016	06192-480162	D	M16	80	25	17	50	30

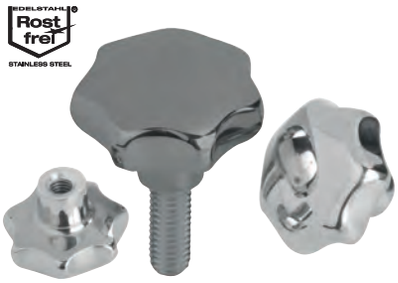
Order No. tumbled	Order No. polished	Form	D	D1	D2	H	T	T1
06192-54008	06192-540082	E	M8	40	14	25	15	18
06192-55010	06192-550102	E	M10	50	18	32	18	21
06192-56312	06192-563122	E	M12	63	20	40	22	25
06192-58016	06192-580162	E	M16	80	25	50	28	32

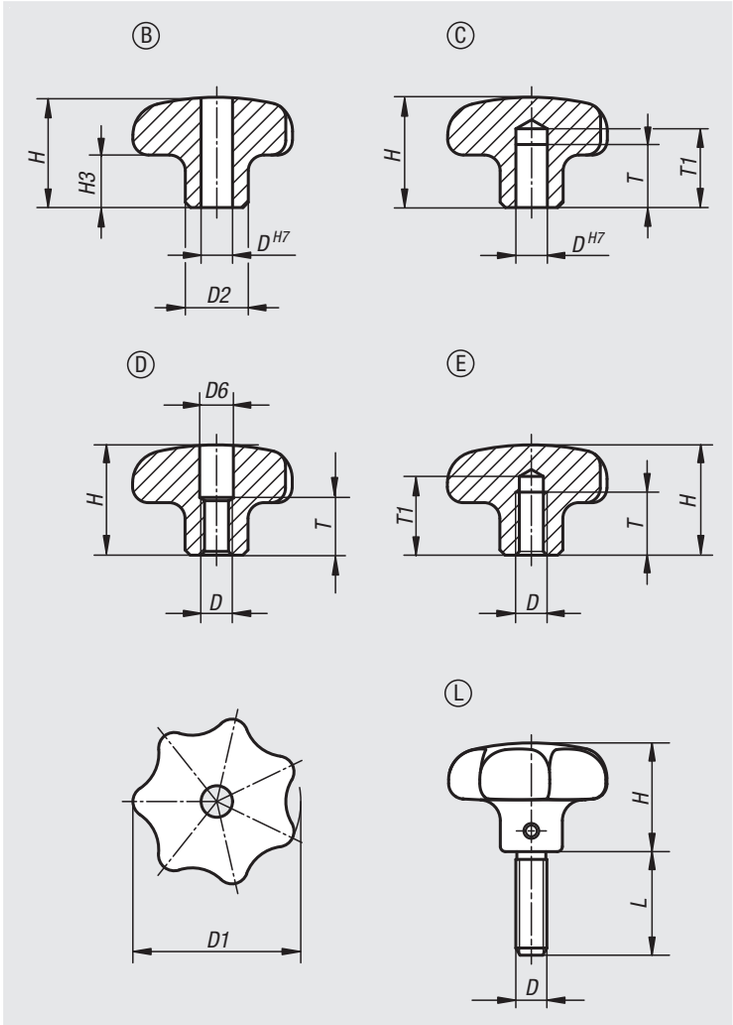
Order No.	Form	Surface finish body	D	D1	D2	H	L
06192-64008X	L	tumbled	M8	40	14	25	20/25/30/40
06192-65010X	L	tumbled	M10	50	18	32	25/30/40/50
06192-66312X	L	tumbled	M12	63	20	40	30/40/50/60

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Star grips

stainless steel, similar to DIN 6336





Material:
Stainless steel 1.4308.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Ground and polished or blasted.
Grub screw and pin bright.

Sample order:
nlm 06194-632063X20 (include length L.)

Drawing reference:
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

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Star grips

stainless steel, similar to DIN 6336

Order No. Form B	Order No. Form C	Surface finish body	D	D1	D2	H	H3	T	T1
06194-232062	**06194-332062**	polished	6	32	12	21	10	-/12	-/15
06194-240082	**06194-340082**	polished	8	40	14	26	13	-/15	-/18
06194-250102	**06194-350102**	polished	10	50	18	34	17	-/18	-/21
06194-263122	**06194-363122**	polished	12	63	20	42	21	-/22	-/25
06194-232063	**06194-332063**	blasted	6	32	12	21	10	-/12	-/15
06194-240083	**06194-340083**	blasted	8	40	14	26	13	-/15	-/18
06194-250103	**06194-350103**	blasted	10	50	18	34	17	-/18	-/21
06194-263123	**06194-363123**	blasted	12	63	20	42	21	-/22	-/25

Order No. Form D	Order No. Form E	Surface finish body	D	D1	D2	D6	H	H3	T	T1
06194-432062	**06194-532062**	polished	M6	32	12	6,4/-	21	10	11/12	-/15
06194-440082	**06194-540082**	polished	M8	40	14	8,4/-	26	13	14/15	-/18
06194-450102	**06194-550102**	polished	M10	50	18	10,5/-	34	17	18	-/21
06194-463122	**06194-563122**	polished	M12	63	20	13/-	42	21	22	-/25
06194-432063	**06194-532063**	blasted	M6	32	12	6,4/-	21	10	11/12	-/15
06194-440083	**06194-540083**	blasted	M8	40	14	8,4/-	26	13	14/15	-/18
06194-450103	**06194-550103**	blasted	M10	50	18	10,5/-	34	17	18	-/21
06194-463123	**06194-563123**	blasted	M12	63	20	13/-	42	21	22	-/25

Order No.	Form	Surface finish body	D	D1	D2	H	H3	L
06194-632063X	L	blasted	M6	32	12	21	10	15/20/25/30
06194-640083X	L	blasted	M8	40	14	26	13	20/25/30/40
06194-650103X	L	blasted	M10	50	18	34	17	25/30/40/50
06194-663123X	L	blasted	M12	63	20	42	21	30/40/50/60

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Star grips

grey cast iron, DIN 6336



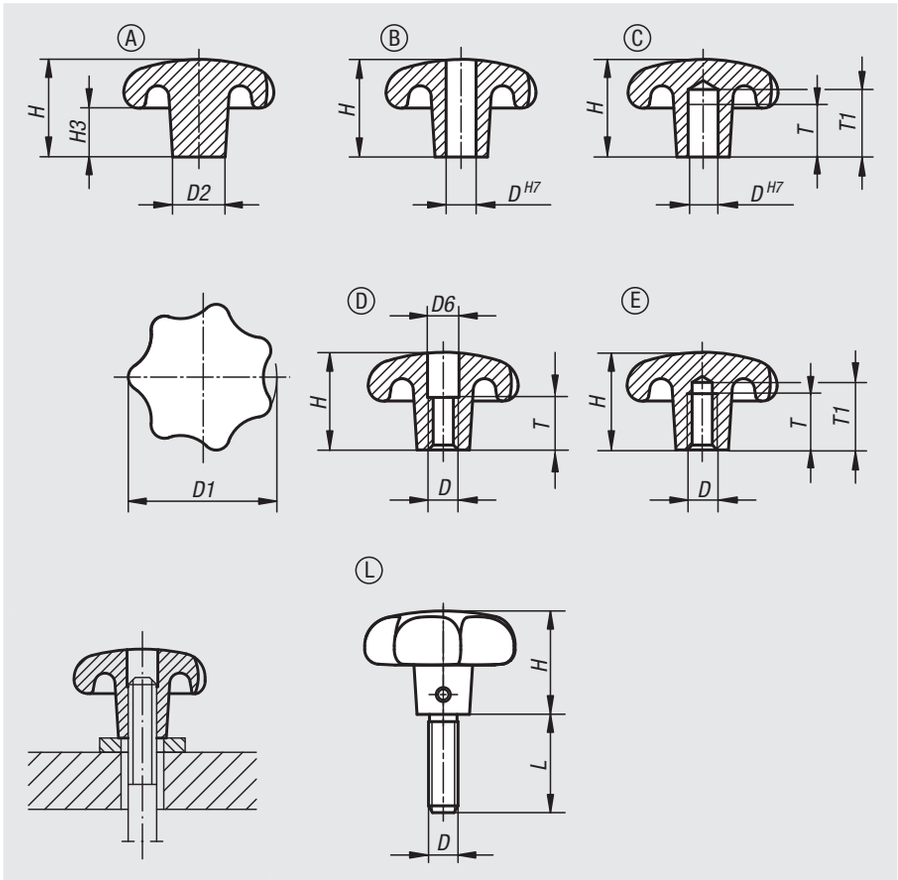
Material:
Grey cast iron GJL 200.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground, bright.
Grub screw and pin bright.

Sample order:
nlm 06200-606X20 (include length L.)

On request:
Grips with a plastic coating.

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread



Order No. Form A	Order No. Form B	Surface finish body	D	D1	D2	H	H3
06200-106	**06200-206**	tumbled	-/6	32	12	21/20	10
06200-108	**06200-208**	tumbled	-/8	40	14	26/25	13
06200-110	**06200-210**	tumbled	-/10	50	18	34/32	17
06200-112	**06200-212**	tumbled	-/12	63	20	42/40	21
06200-116	**06200-216**	tumbled	-/16	80	25	52/50	25

Order No. Form C	Order No. Form D	Order No. Form E	Surface finish body	D	D1	D2	H	H3	T	T1
06200-306	**06200-406**	**06200-506**	tumbled	6 / M6 / M6	32	12	20	10	12/10/12	15/-/15
06200-308	**06200-408**	**06200-508**	tumbled	8 / M8 / M8	40	14	25	13	15/13/15	18/-/18
06200-310	**06200-410**	**06200-510**	tumbled	10 / M10 / M10	50	18	32	17	18/16/18	21/-/21
06200-312	**06200-412**	**06200-512**	tumbled	12 / M12 / M12	63	20	40	21	22/20/22	25/-/25
06200-316	**06200-416**	**06200-516**	tumbled	16 / M16 / M16	80	25	50	25	28/20/28	32/-/32

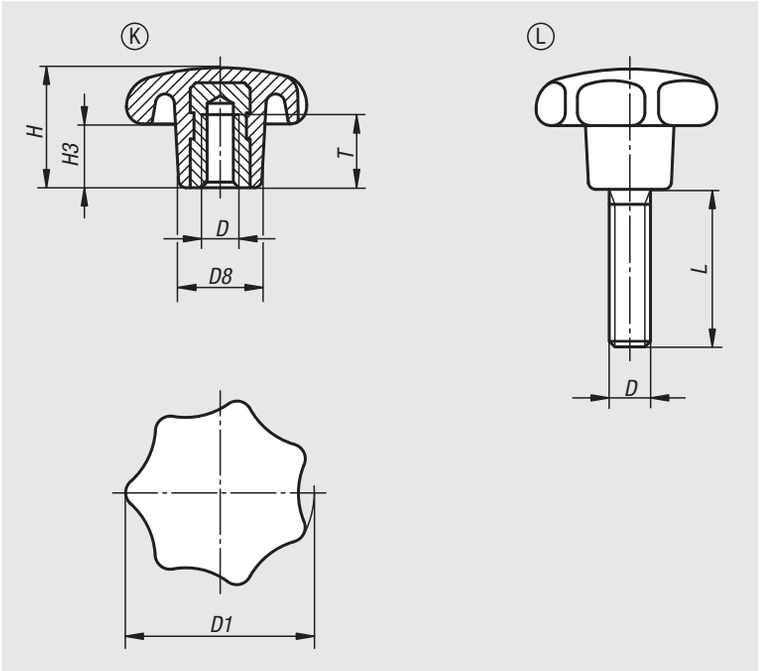
Order No.	Form	Surface finish body	D	D1	D2	H	L
06200-606X	L	tumbled	M6	32	12	20	15/20/25/30
06200-608X	L	tumbled	M8	40	14	25	20/25/30/40
06200-610X	L	tumbled	M10	50	18	32	25/30/40/50
06200-612X	L	tumbled	M12	63	20	40	30/40/50/60

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Star grips

similar to DIN 6336





Material:
Thermoset PF 31, black.
Bush and screw steel, trivalent blue passivated.

Version:
High-gloss polished.

Sample order:
nlm 06208-42505X15 (include length L)

Note:
The version 06208-22004 has a brass bush.

On request:
Other colours.

Drawing reference:
Form K: tapped bush
Form L: external thread

Order No.	Form	D	D1	D8	H	H3	T
06208-22004	K	M4	20	10	13	7	6,5
06208-22505	K	M5	25	12	16	8	9,5
06208-23206	K	M6	32	14	20	10	12
06208-24008	K	M8	40	18	25	13	14
06208-25010	K	M10	50	22	32	17	18
06208-26312	K	M12	63	26	40	21	22
06208-28016	K	M16	80	35	50	25	30

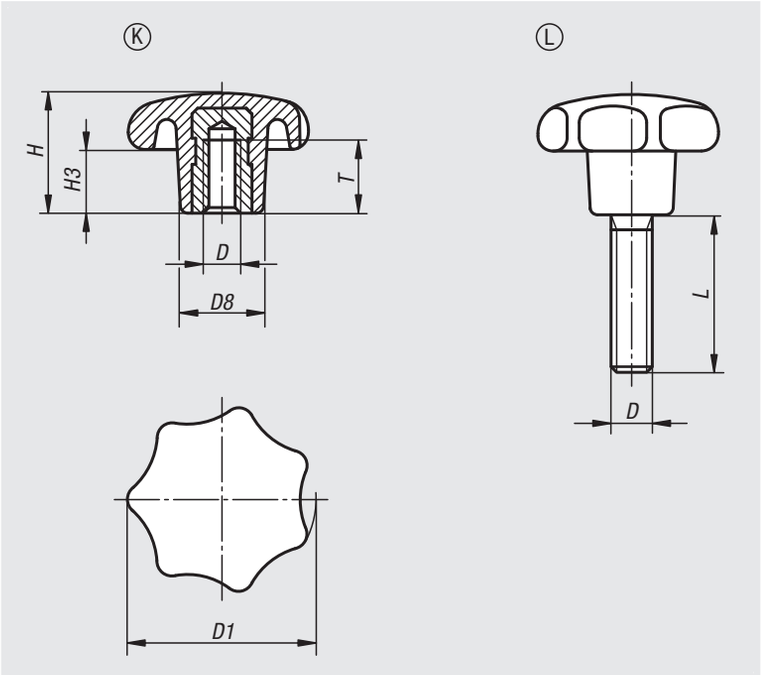
Order No.	Form	D	D1	D8	H	H3	L
06208-42505X	L	M5	25	12	16	8	15/20/25
06208-43206X	L	M6	32	14	20	10	15/20/25/30
06208-44008X	L	M8	40	18	25	13	20/25/30/35/40
06208-45010X	L	M10	50	22	32	17	25/30/35/40/50
06208-46312X	L	M12	63	26	40	21	30/35/40/50/60
06208-48016X	L	M16	80	35	50	25	30/40/50/60

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Star grips

similar to DIN 6336, metal parts stainless steel





Material:
Thermoset PF 31, black.
Bushing or threaded pin stainless steel 1.4301.

Version:
High-gloss polished.

Sample order:
nlm 06209-43206X20 (include length L)

On request:
Other colours.

Drawing reference:
Form K: tapped bush
Form L: external thread

Order No.	Form	D	D1	D8	H	H3	T
06209-22505	K	M5	25	12	16	8	7,5
06209-23206	K	M6	32	14	20	10	12
06209-24008	K	M8	40	18	25	13	14
06209-25010	K	M10	50	22	32	17	18
06209-26312	K	M12	63	26	40	21	22
06209-28016	K	M16	80	35	50	25	24

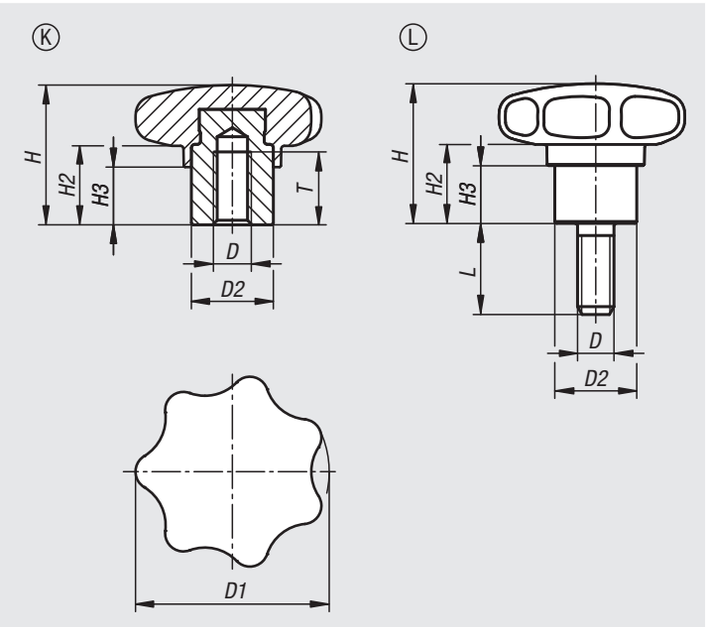
Order No.	Form	D	D1	D8	H	H3	L
06209-42505X	L	M5	25	12	16	8	15/20/25
06209-43206X	L	M6	32	14	20	10	15/20/25/30/40
06209-44008X	L	M8	40	18	25	13	20/25/30/40/50
06209-45010X	L	M10	50	22	32	17	25/30/40/50
06209-46312X	L	M12	63	26	40	21	30/40/50/60
06209-48016X	L	M16	80	35	50	25	30/40/50/60

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Star grips, plastic

with protruding steel bush





The thermoset star grip is distinguished by its closed grip contour. The contact surface of the protruding steel bush is vertical to the thread axis and ensures a firm screw connection.

Material:
Thermoset PF 31.
Steel grade 5.8 or stainless steel 1.4305.

Version:
Thermoset black, high-gloss polished.
Metal parts trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06209-01-43206X10 (include length L)

Advantages:
Wear resistant contact surface
Closed grip contour

On request:
Form H: bush with blind hole

Drawing reference:
Form K: tapped bush
Form L: external thread

Star grips plastic with protruding steel bush, internal thread, Form K

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	H3	T
06209-01-23206	06209-01-33206	K	M6	32	13,5	23	13	9,5	12
06209-01-24006	06209-01-34006	K	M6	40	13,5	25	13	10	12
06209-01-24008	06209-01-34008	K	M8	40	13,5	25	13	10	12
06209-01-25008	06209-01-35008	K	M8	50	19	32	17	12	17
06209-01-25010	06209-01-35010	K	M10	50	19	32	17	12	17
06209-01-26310	06209-01-36310	K	M10	63	19	40	20	15	17
06209-01-26312	06209-01-36312	K	M12	63	19	40	20	15	17

Star grips plastic with protruding steel bush, external thread, Form L

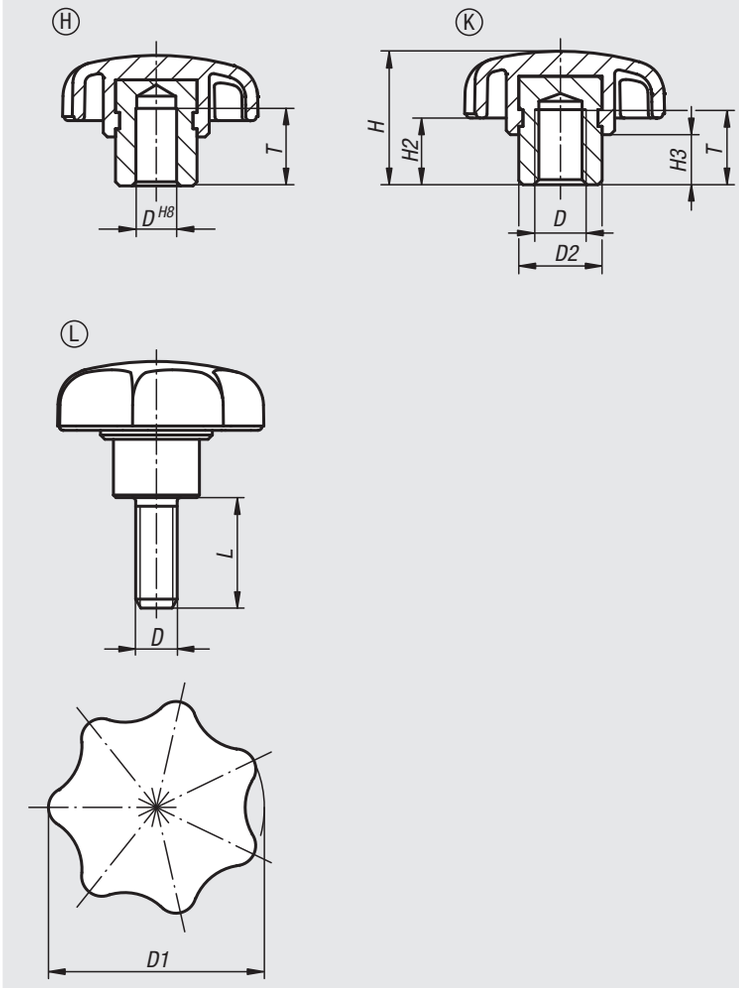
Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	H3	L
06209-01-43206X	06209-01-53206X	L	M6	32	13,5	23	13	9,5	10/15/20/25/30
06209-01-44008X	06209-01-54008X	L	M8	40	13,5	25	13	10	15/20/25/30/40/50
06209-01-45010X	06209-01-55010X	L	M10	50	19	32	17	12	20/25/30/40/50/60
06209-01-46312X	06209-01-56312X	L	M12	63	19	40	20	15	20/25/30/40/50/60

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Star grips

with projecting steel bush





Material:
Black thermoplastic.
Steel grade 5.8 or stainless steel 1.4305.

Version:
Metal parts trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06210-405X20 (include length L.)

Note:
Star grips with projecting steel bush and blind hole or female thread are especially suited for cross pinning.

Drawing reference:
Form H: bush with blind hole
Form K: tapped bush
Form L: external thread

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Star grips

with projecting steel bush

Order No.	Form	Component material	D	D1	D2	H	H2	H3	T
06210-105	H	steel	5	25	10	17	9	7	9,5
06210-106	H	steel	6	32	13,5	21	11	9,5	12,5
06210-1061	H	steel	6	40	13,5	25	13	10	12,5
06210-108	H	steel	8	40	13,5	25	13	10	12,5
06210-1081	H	steel	8	50	19	32	17	12	19,5
06210-110	H	steel	10	50	19	32	17	12	19,5
06210-1101	H	steel	10	63	19	37	18	12	19,5
06210-112	H	steel	12	63	19	37	18	12	19,5
06210-116	H	steel	16	63	23	40	21	15	24,5

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	H3	T
06210-205	**06210-305**	K	M5	25	10	17	9	7	9
06210-206	**06210-306**	K	M6	32	13,5	21	11	9,5	12
06210-2061	**06210-3061**	K	M6	40	13,5	25	13	10	12
06210-208	**06210-308**	K	M8	40	13,5	25	13	10	12
06210-2081	**06210-3081**	K	M8	50	19	32	17	12	17
06210-210	**06210-310**	K	M10	50	19	32	17	12	17
06210-2101	**06210-3101**	K	M10	63	19	37	18	12	17
06210-212	**06210-312**	K	M12	63	19	37	18	12	17
06210-216	**06210-316**	K	M16	63	23	40	21	15	23

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	H3	L
06210-405X	**06210-505X**	L	M5	25	10	17	9	7	10/15/20
06210-406X	**06210-506X**	L	M6	32	13,5	21	11	9,5	10/15/20/25/30
06210-408X	**06210-508X**	L	M8	40	13,5	25	13	10	15/20/25/30/40/50
06210-410X	**06210-510X**	L	M10	50	19	32	17	12	20/25/30/40/50/60
06210-412X	**06210-512X**	L	M12	63	19	37	18	12	20/25/30/40/50/60

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Star grips, plastic

with clamping force intensifier



Star grips with integrated clamping force intensifier can achieve double the clamping force compared to standard star grips.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the star grip.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

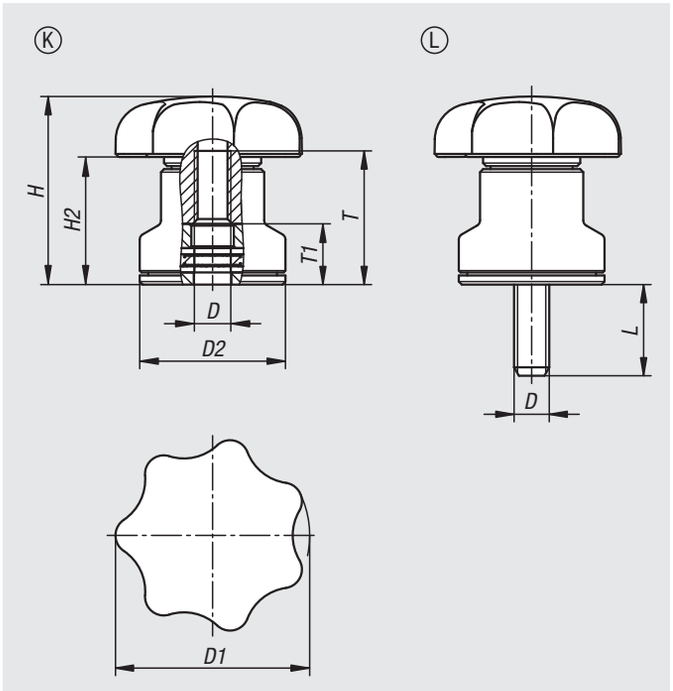
Due to the modular construction many special designs are available.

Material:
Star grip polyamide thermoplastic, black.
Steel parts 5.8 steel or stainless steel 1.4305.

Version:
Metal parts trivalent blue passivated steel or bright stainless steel.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06210-10-406X20 (include length L.)

Application:
Machine, equipment and plant construction, rehabilitation sector.



Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other thread lengths.

Drawing reference:
Form K: tapped bush
Form L: external thread

Plastic star grip with clamping force intensifier, Form K

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	T	T1
06210-10-206	**06210-10-306**	K	M6	32	24	31	21	22	10
06210-10-208	**06210-10-308**	K	M8	40	25	35	23	22	10
06210-10-210	**06210-10-310**	K	M10	50	30	42	27	27	10
06210-10-212	**06210-10-312**	K	M12	63	35	47	28	27	10

Plastic star grip with clamping force intensifier, Form L

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	L
06210-10-406X	**06210-10-506X**	L	M6	32	24	31	21	10/20
06210-10-408X	**06210-10-508X**	L	M8	40	25	35	23	15/30
06210-10-410X	**06210-10-510X**	L	M10	50	30	42	27	20/30
06210-10-412X	**06210-10-512X**	L	M12	63	35	47	28	20/30

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Star grips

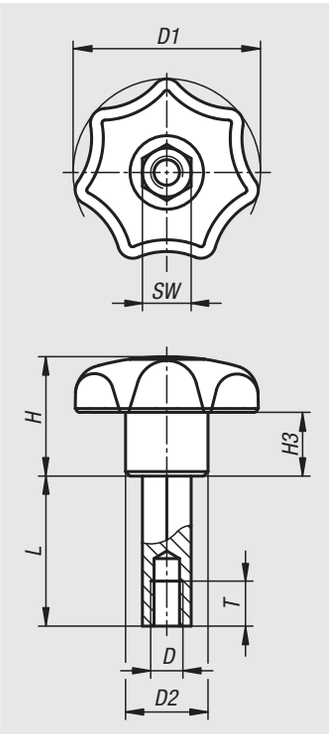
with extended collar



Material:
Thermoplastic, black.
Extension piece, 1.0718 free-cutting steel .

Version:
Extension piece, trivalent blue passivated.

Sample order:
nlm 06211-320508020
(include length L e.g. 020 for L = 20 mm.)



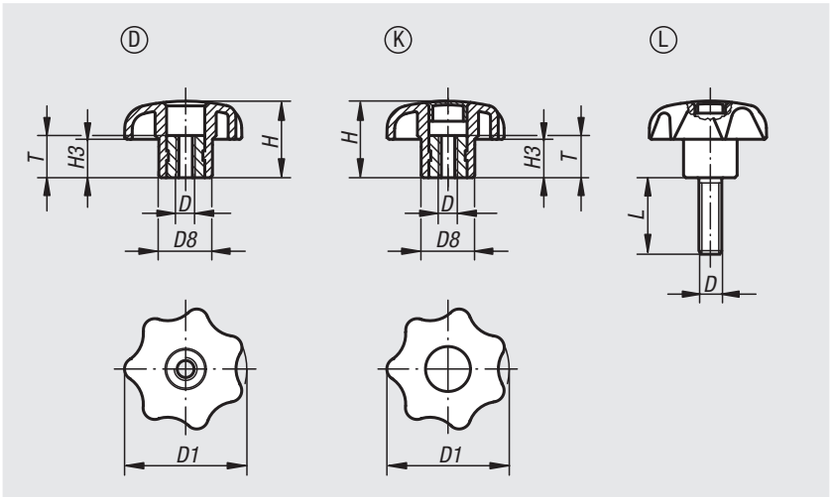
Order No.	D	D1	D2	H	H3	L	SW	T
06211-320508* **	M5	32	14	20	10	20/25/30	8	8
06211-400610* **	M6	40	18	25	13	20/25/30/40/50	10	9
06211-500813* **	M8	50	22	32	17	20/25/30/40/50/80	13	12
06211-631016* **	M10	63	26	40	21	25/30/40/50/80/100	16	15

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Star grips

metal parts stainless steel, similar to DIN 6336





Material:
Black thermoplastic.
Bush and screw stainless steel 1.4305.

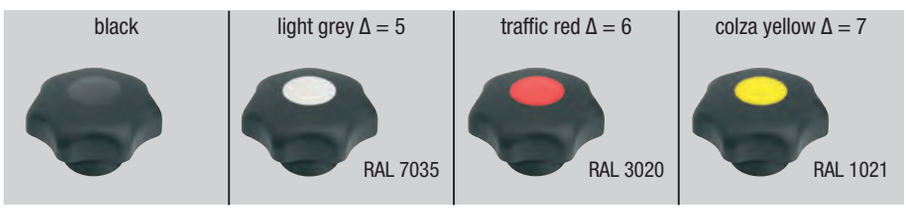
Version:
Bush and screw bright.

Sample order:
nlm 06212-4067X30
(cap colour colza yellow; include length L)

Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

On request:
Other colours or designs, such as company logo.

Drawing reference:
Form D: tapped bush without cap
Form K: tapped bush with cap
Form L: external thread



Order No.	Form	D	D1	D8	H	H3	T
06212-505	D	M5	25	12	16	8	10
06212-506	D	M6	32	14	20	10	10
06212-508	D	M8	40	18	25	13	14
06212-510	D	M10	50	22	32	17	14
06212-512	D	M12	63	26	40	21	18

Order No.	Form	D	D1	D8	H	H3	T
06212-205Δ	K	M5	25	12	16	8	10
06212-206Δ	K	M6	32	14	20	10	10
06212-208Δ	K	M8	40	18	25	13	14
06212-210Δ	K	M10	50	22	32	17	14
06212-212Δ	K	M12	63	26	40	21	18

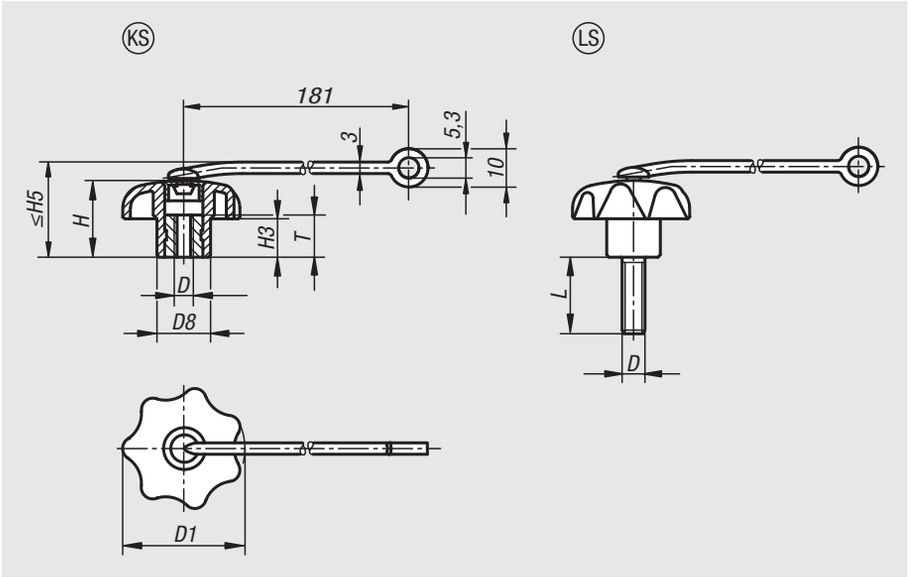
Order No.	Form	D	D1	D8	H	H3	L
06212-405ΔX	L	M5	25	12	16	8	15/20
06212-406ΔX	L	M6	32	14	20	10	20/30
06212-408ΔX	L	M8	40	18	25	13	15/20/25/30/40/60
06212-410ΔX	L	M10	50	22	32	17	25/30/40/50/60

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Star grips with safety cable

metal parts stainless steel, similar to DIN 6336





Material:
Grip thermoplastic.
Bush and screw stainless steel 1.4305.
Safety cable elastic TPU.

Version:
Bush and screw bright.

Sample order:
nlm 06212-7056X15 (cap colour: traffic red; include length L)

Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

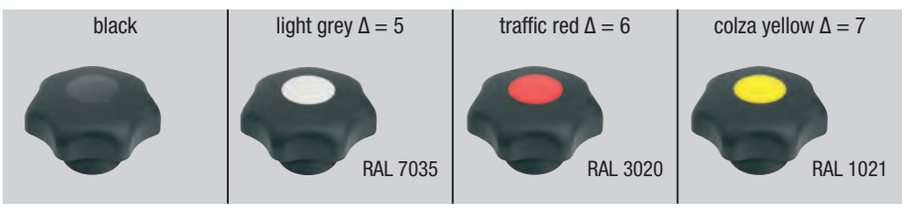
Attach the safety cable to a base to make the star grip unlosable.
The star grip cannot be moved far from the object to which it belongs, simplifying screwing and unscrewing of the grip and ensuring against loss.

Assembly:
Do not stretch the band during assembly.
Make sure that the anchor is not too far from where the star grip is to be used.

Accessories:
The safety cable is also available as an accessory, see 03198-04190.

Drawing reference:
Form KS: tapped bush, with cap
Form LS: male thread





Order No.	Form	D	D1	D8	H	H3	H5 max.	T
06212-605Δ	KS	M5	25	12	16	8	22	10
06212-606Δ	KS	M6	32	14	20	10	26	10
06212-608Δ	KS	M8	40	18	25	13	31	14
06212-610Δ	KS	M10	50	22	32	17	38	14
06212-612Δ	KS	M12	63	26	40	21	46	18

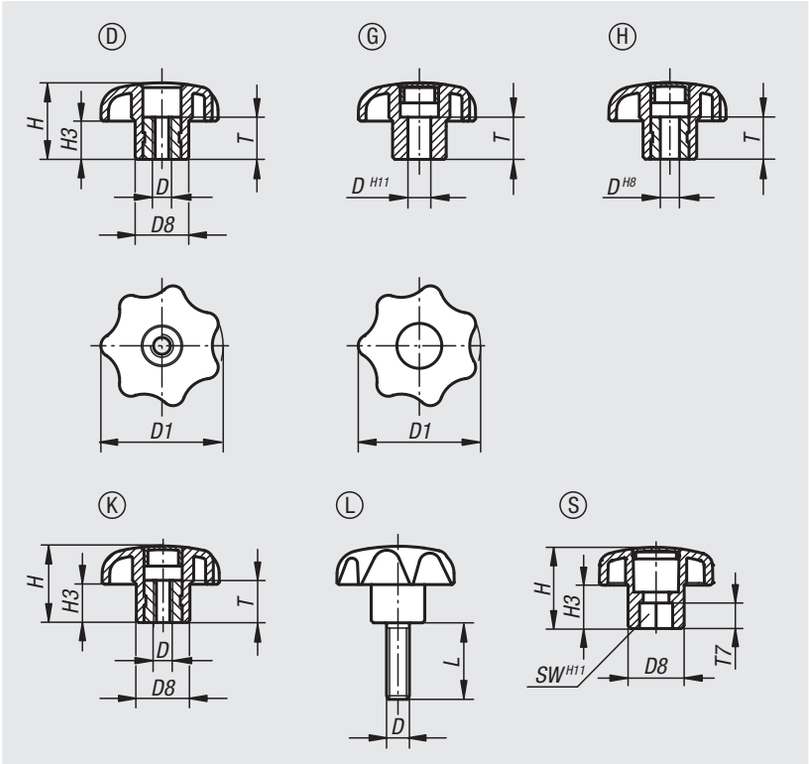
Order No.	Form	D	D1	D8	H	H3	H5 max.	L
06212-705ΔX	LS	M5	25	12	16	8	22	15/20
06212-706ΔX	LS	M6	32	14	20	10	26	20/30
06212-708ΔX	LS	M8	40	18	25	13	31	15/20/25/30/40/60
06212-710ΔX	LS	M10	50	22	32	17	38	25/30/40/50/60

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Star grips

similar to DIN 6336





Material:
Black thermoplastic.
Bush and screw steel.

Version:
Bush and screw trivalent blue passivated.

Sample order:
nlm 06220-4127X30 (cap colour colza yellow; include length L)

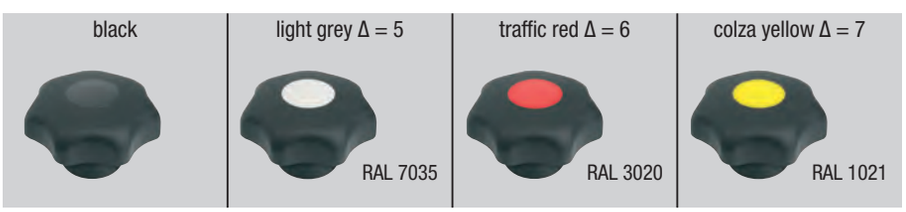
Note:
˜ Add the desired cap colour code here. No colour code is required for black caps.

On request:
Other colours or designs, such as company logo.

Drawing reference:
Form D: tapped bush without cap
Form G: without bush
Form H: with reamed bush
Form K: tapped bush with cap
Form L: external thread
Form S: hexagon

examples of grip cap designs





Order No.	Form	D	D1	D8	H	H3	T
06220-504	D	M4	25	12	16	8	10
06220-505	D	M5	25	12	16	8	10
06220-5061	D	M6	25	12	16	8	10
06220-5051	D	M5	32	14	20	10	10
06220-506	D	M6	32	14	20	10	10
06220-508	D	M8	40	18	25	13	14
06220-5101	D	M10	40	18	25	13	14
06220-5081	D	M8	50	22	32	17	14
06220-510	D	M10	50	22	32	17	14
06220-5121	D	M12	50	22	32	17	18
06220-5102	D	M10	63	26	40	21	14
06220-512	D	M12	63	26	40	21	18
06220-516	D	M16	63	26	40	21	18

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Star grips

similar to DIN 6336

Order No. Form G	Order No. Form H	D	D1	D8	H	H3	T
06220-305Δ	06220-105Δ	5	25	12	16	8	10
06220-306Δ	06220-106Δ	6	32	14	20	10	10
06220-308Δ	06220-108Δ	8	40	18	25	13	14
06220-310Δ	06220-110Δ	10	50	22	32	17	14
-	06220-1101Δ	10	63	26	40	21	14
06220-312Δ	06220-112Δ	12	63	26	40	21	18

Order No.	Form	D	D1	D8	H	H3	T
06220-204Δ	K	M4	25	12	16	8	10
06220-205Δ	K	M5	25	12	16	8	10
06220-2061Δ	K	M6	25	12	16	8	10
06220-2051Δ	K	M5	32	14	20	10	10
06220-206Δ	K	M6	32	14	20	10	10
06220-208Δ	K	M8	40	18	25	13	14
06220-2101Δ	K	M10	40	18	25	13	14
06220-2081Δ	K	M8	50	22	32	17	14
06220-210Δ	K	M10	50	22	32	17	14
06220-2121Δ	K	M12	50	22	32	17	18
06220-2102Δ	K	M10	63	26	40	21	14
06220-212Δ	K	M12	63	26	40	21	18
06220-216Δ	K	M16	63	26	40	21	18

Order No.	Form	D	D1	D8	H	H3	L
06220-405ΔX	L	M5	25	12	16	8	10/15/20/25/30/35/40/45/50/60
06220-406ΔX	L	M6	25	12	16	8	10/15/20/25/30/35/40/45/50/60
06220-4061ΔX	L	M6	32	14	20	10	10/15/20/25/30/35/40/45/50/60
06220-408ΔX	L	M8	32	14	20	10	15/20/25/30/35/40/45/50/60
06220-4081ΔX	L	M8	40	18	25	13	15/20/25/30/35/40/45/50/60
06220-410ΔX	L	M10	40	18	25	13	15/20/25/30/35/40/45/50/60
06220-4101ΔX	L	M10	50	22	32	17	15/20/25/30/35/40/45/50/60
06220-412ΔX	L	M12	50	22	32	17	15/20/25/30/35/40/45/50/60
06220-4102ΔX	L	M10	63	26	40	21	20/25/30/35/40/45/50/60
06220-4121ΔX	L	M12	63	26	40	21	20/25/30/35/40/45/50/60
06220-416ΔX	L	M16	63	26	40	21	30/35/40/45/50/60

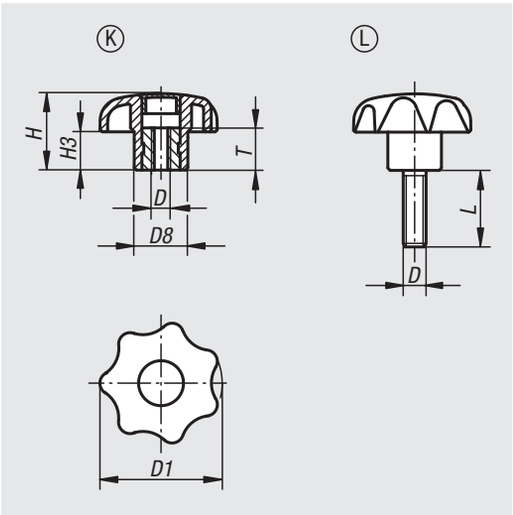
Order No.	Form	D1	D8	H	H3	SW	T7
06220-808	S	32	14	20	10	8	5
06220-810	S	40	18	25	13	10	10
06220-813	S	50	22	32	17	13	10
06220-816	S	63	26	40	21	16	15

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Star grips antistatic

similar to DIN 6336





Material:
Thermoplastic, graphite black.
Bush or screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
nlm 06220-1120824

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge. These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

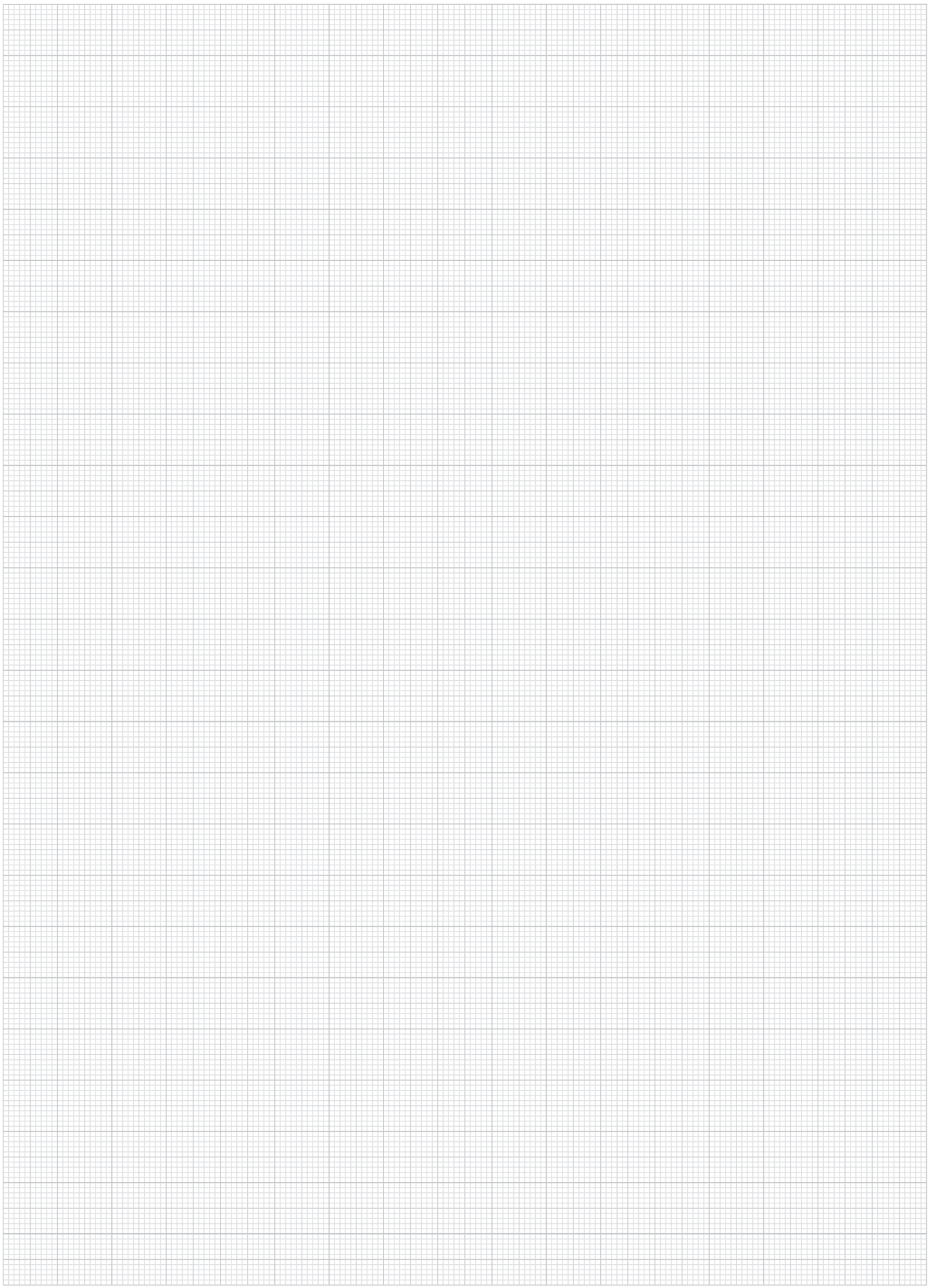
Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Drawing reference:
Form K: tapped bush, with cap
Form L: external thread

Order No.	Form	D	D1	D8	H	H3	T
06220-1120824	K	M8	40	18	25	13	14

Order No.	Form	D	D1	D8	H	H3	L
06220-11408124X25	L	M8	40	18	25	13	25

Notes

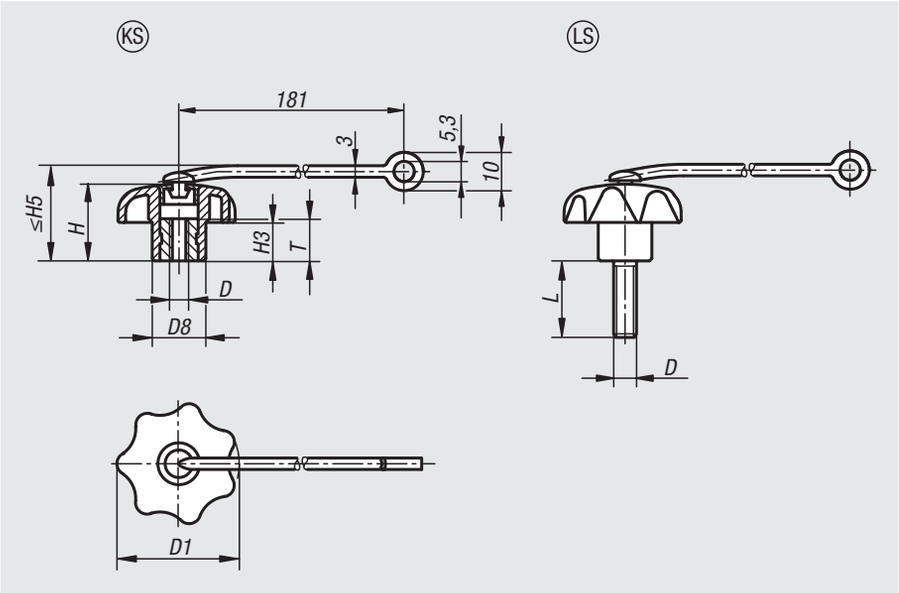


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Star grips with safety cable

similar to DIN 6336





Material:
Grip thermoplastic.
Bush and screw steel.
Safety cable elastic TPU.

Version:
Bush and screw bright.

Sample order:
nlm 06220-7056X15
(cap colour traffic red; include length L)

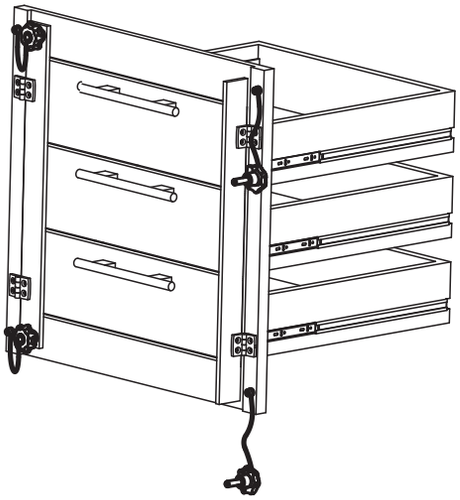
Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

Attach the safety cable to a base to make the star grip unlosable. The star grip cannot be moved far from the object to which it belongs, simplifying screwing and unscrewing of the grip and ensuring against loss.

Assembly:
Do not stretch the band during assembly.
Make sure that the anchor is not too far from where the star grip is to be used.

Accessories:
The safety cable is also available as an accessory, see 03198-04190.

Drawing reference:
Form KS: tapped bush, with cap
Form LS: male thread

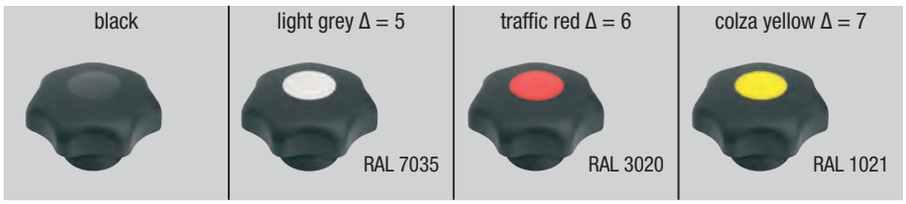




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Star grips with safety cable

similar to DIN 6336



Order No.	Form	D	D1	D8	H	H3	H5 max.	T
06220-604Δ	KS	M4	25	12	16	8	22	10
06220-605Δ	KS	M5	25	12	16	8	22	10
06220-6061Δ	KS	M6	25	12	16	8	22	10
06220-6051Δ	KS	M5	32	14	20	10	26	10
06220-606Δ	KS	M6	32	14	20	10	26	10
06220-608Δ	KS	M8	40	18	25	13	31	14
06220-6101Δ	KS	M10	40	18	25	13	31	14
06220-6081Δ	KS	M8	50	22	32	17	38	14
06220-610Δ	KS	M10	50	22	32	17	38	14
06220-6121Δ	KS	M12	50	22	32	17	38	14
06220-6102Δ	KS	M10	63	26	40	21	46	14
06220-612Δ	KS	M12	63	26	40	21	46	14
06220-616Δ	KS	M16	63	26	40	21	46	14

Order No.	Form	D	D1	D8	H	H3	H5 max.	L
06220-705ΔX	LS	M5	25	12	16	8	22	10/15/20/25/30/35/40/45/50/60
06220-706ΔX	LS	M6	25	12	16	8	22	10/15/20/25/30/35/40/45/50/60
06220-7061ΔX	LS	M6	32	14	20	10	26	10/15/20/25/30/35/40/45/50/60
06220-708ΔX	LS	M8	32	14	20	10	26	15/20/25/30/35/40/45/50/60
06220-7081ΔX	LS	M8	40	18	25	13	31	15/20/25/30/35/40/45/50/60
06220-710ΔX	LS	M10	40	18	25	13	31	15/20/25/30/35/40/45/50/60
06220-7101ΔX	LS	M10	50	22	32	17	38	15/20/25/30/35/40/45/50/60
06220-712ΔX	LS	M12	50	22	32	17	38	15/20/25/30/35/40/45/50/60
06220-7102ΔX	LS	M10	63	26	40	21	46	20/25/30/35/40/45/50/60
06220-7121ΔX	LS	M12	63	26	40	21	46	20/25/30/35/40/45/50/60
06220-716ΔX	LS	M16	63	26	40	21	46	30/35/40/45/50/60

06222

Star grips quick-acting



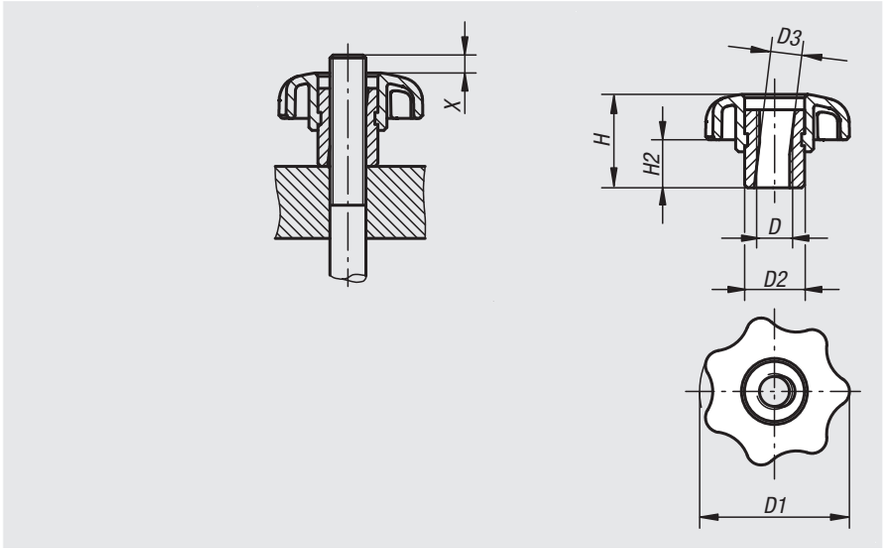
Material:
Black thermoplastic.
Bush steel.

Version:
Bush trivalent blue passivated

Sample order:
nlm 06222-06

Note:
Quick-acting star grips can be used on all fixtures that do not require a high clamping force.
Tilt the grip to slide on, then straighten it to engage the threads.

Drawing reference:
X: The stud should be several mm longer than height "H1"



Order No.	D	D1	D2	D3	H	H2
06222-05	M5	25	10	5,2	16,6	9
06222-06	M6	32	13,5	6,2	20,6	11
06222-08	M8	40	13,5	8,3	24,5	13
06222-10	M10	50	19	10,3	31,2	17
06222-12	M12	63	19	12,7	39,3	21

06230

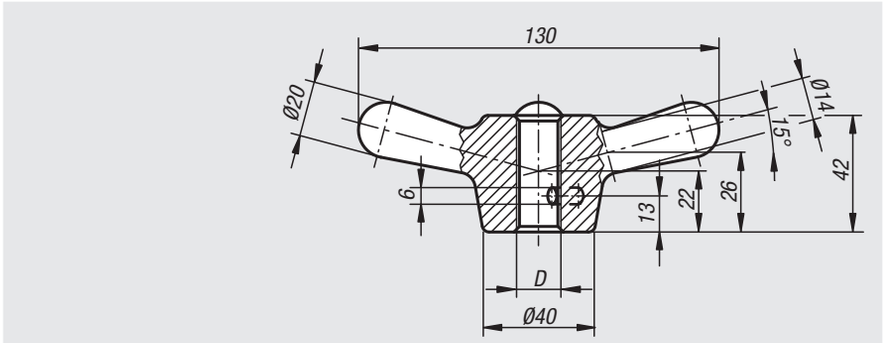
Four-spoked nuts

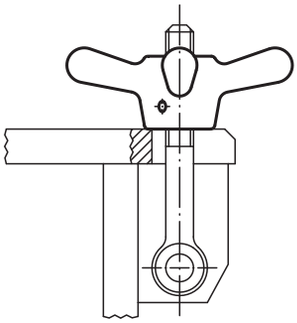


Material:
GJMW 350 malleable cast iron

Version:
Deburred and sand-blasted

Sample order:
nlm 06230-20





Order No.	D
06230-16	M16
06230-20	M20
06230-24	M24

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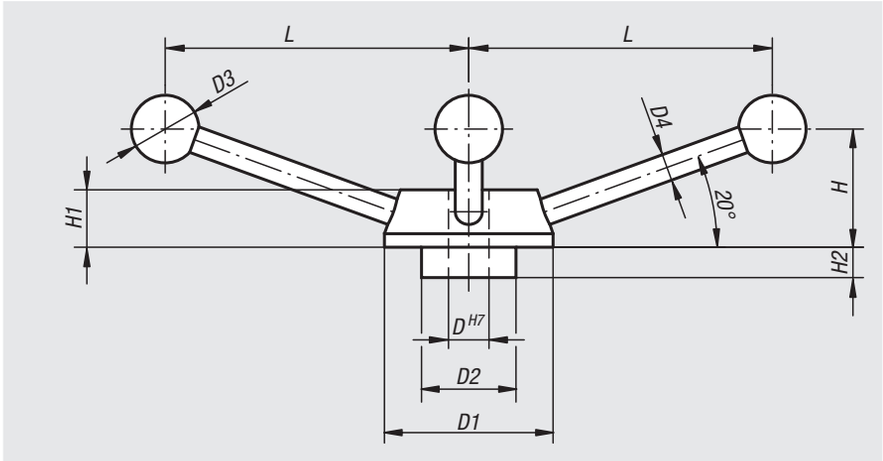
Capstan wheel



Material:
Wheel steel.
Ball knop thermoplastic.

Version:
Wheel black oxidised.
Ball knob black.

Sample order:
nlm 06235-160



Order No.	D	D1	D2	D3	D4	H	H1	H2	L
06235-120	12	50	28	20	8	35	17	9	90
06235-140	14	55	30	25	10	38	18	10	99
06235-160	16	65	35	30	12	45	20	12	119
06235-200	20	80	44	40	14	56	24	16	150

Notes

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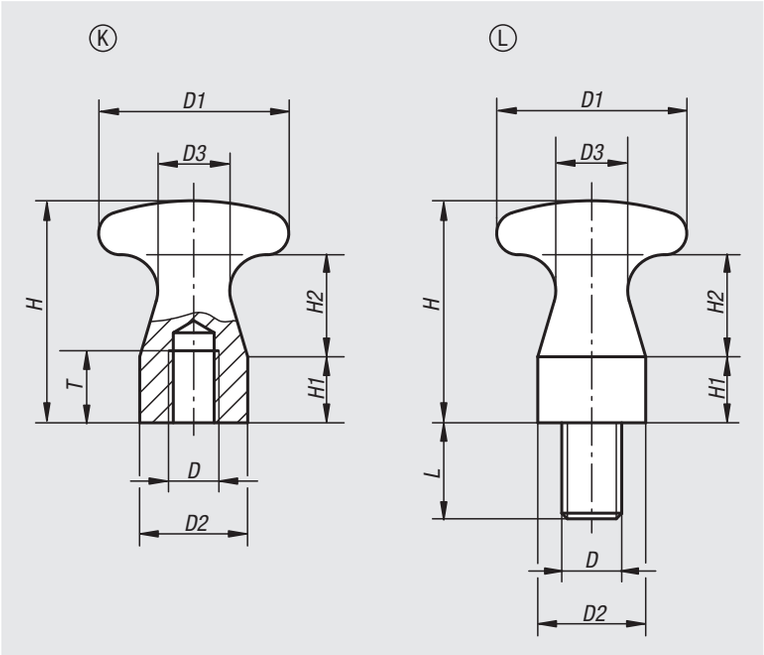
Knobs flat



Material:
Steel.

Version:
Black oxidised.

Sample order:
nlm 06237-08



Knobs flat, internal thread

Order No.	Form	D	D1	D2	D3	H	H1	H2	T
06237-05	K	M5	16	10	6	18	5	9	7
06237-06	K	M6	25	14	10	29	9	13	9
06237-08	K	M8	32	18	12	37	11	17	12
06237-10	K	M10	36	20	13	42	12	20	15

Knobs flat, external thread

Order No.	Form	D	D1	D2	D3	H	H1	H2	L
06237-06010	L	M6	16	10	6	18	5	9	10
06237-08014	L	M8	25	14	10	29	9	13	14
06237-10016	L	M10	32	18	12	37	11	17	16
06237-12018	L	M12	36	20	13	42	12	20	18

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Mushroom knobs

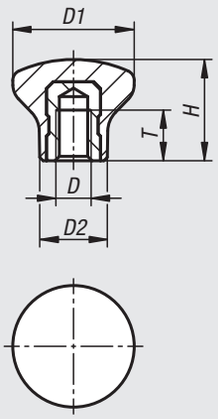
internal thread



Material:
Thermoset PF 31.
Steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06238-1805



Order No. steel	Order No. stainless steel	D	D1	D2	H	T
06238-1805	06238-11805	M5	18	10	15	7,5
06238-2106	06238-12106	M6	21	12	17	9
06238-2506	06238-12506	M6	25	14	21	9
06238-3308	06238-13308	M8	33	18	29	12

Mushroom knobs

external thread

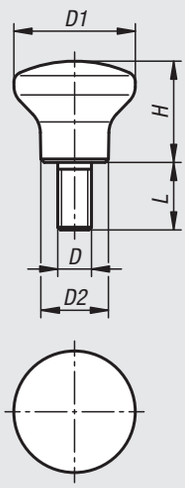


Material:
Thermoset PF 31.
Steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06239-1805X10

On request:
Other screw lengths.



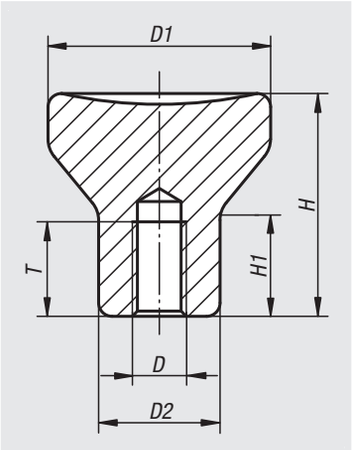
Order No. steel	Order No. stainless steel	D	D1	D2	H	L
06239-1805X10	06239-11805X10	M5	18	10	15	10
06239-2106X10	06239-12106X10	M6	21	12	17	10
06239-2506X10	06239-12506X10	M6	25	14	21	10
06239-3308X15	06239-13308X15	M8	33	18	29	15

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Mushroom knobs

with internal thread





Material:
Steel, stainless steel or aluminium.

Version:
Steel trivalent blue passivated.
Stainless steel electropolished or blasted.
Aluminium natural tone anodised.

Sample order:
nlm 06240-104

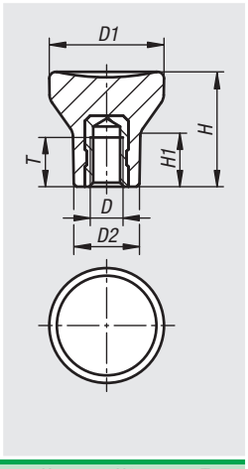
On request:
With external threads.

Order No.	Main material	Surface finish body	D	D1	D2	H	H1	T
06240-0902	steel	blue-passivated	M2	14	8	14	6,7	4
06240-0003	steel	blue-passivated	M3	18	10	18	8,6	7,5
06240-0104	steel	blue-passivated	M4	21	12	21	10	10
06240-0105	steel	blue-passivated	M5	21	12	21	10	12,5
06240-0206	steel	blue-passivated	M6	25	14	25	12	12
06240-0308	steel	blue-passivated	M8	33	18	33	16	16
06240-0410	steel	blue-passivated	M10	40	24	40	18,7	20
06240-902	stainless steel	electropolished	M2	14	8	14	6,7	4
06240-003	stainless steel	electropolished	M3	18	10	18	8,6	7,5
06240-104	stainless steel	electropolished	M4	21	12	21	10	10
06240-105	stainless steel	electropolished	M5	21	12	21	10	12,5
06240-206	stainless steel	electropolished	M6	25	14	25	12	12
06240-308	stainless steel	electropolished	M8	33	18	33	16	16
06240-410	stainless steel	electropolished	M10	40	24	40	18,7	20
06240-1902	aluminium	anodised	M2	14	8	14	6,7	4
06240-1003	aluminium	anodised	M3	18	10	18	8,6	7,5
06240-1104	aluminium	anodised	M4	21	12	21	10	10
06240-1105	aluminium	anodised	M5	21	12	21	10	12,5
06240-1206	aluminium	anodised	M6	25	14	25	12	12
06240-1308	aluminium	anodised	M8	33	18	33	16	16
06240-1410	aluminium	anodised	M10	40	24	40	18,7	20
06240-2902	stainless steel	blasted	M2	14	8	14	6,7	4
06240-2003	stainless steel	blasted	M3	18	10	18	8,6	7,5
06240-2104	stainless steel	blasted	M4	21	12	21	10	10
06240-2105	stainless steel	blasted	M5	21	12	21	10	12,5
06240-2206	stainless steel	blasted	M6	25	14	25	12	12
06240-2308	stainless steel	blasted	M8	33	18	33	16	16
06240-2410	stainless steel	blasted	M10	40	24	40	18,7	20

Mushroom knobs

internal thread





Material:
Thermoset PF 31.
Steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06240-10-104

Note:
The version 06240-10-104 has a brass bush.

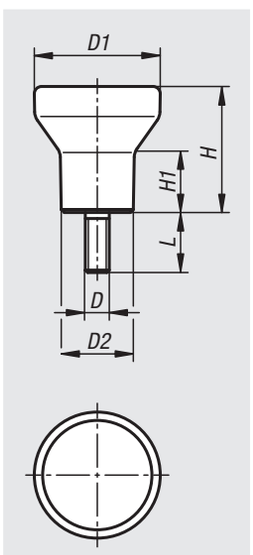
Order No.	Component material	D	D1	D2	H	H1	T
06240-10-104	brass	M4	21	12	21	10	6
06240-10-105	steel	M5	21	12	21	10	7,5
06240-10-206	steel	M6	25	14	25	12	9
06240-10-308	steel	M8	33	18	33	16	12
06240-10-1104	stainless steel	M4	21	12	21	10	6
06240-10-1105	stainless steel	M5	21	12	21	10	7,5
06240-10-1206	stainless steel	M6	25	14	25	12	9
06240-10-1308	stainless steel	M8	33	18	33	16	12

06240-11

Mushroom knobs

external thread





Material:
Thermoset PF 31.
Steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06240-11-104X10

On request:
Other screw lengths.

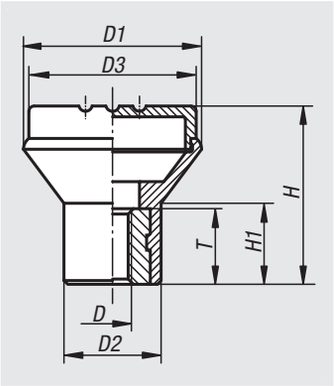
Order No. steel	Order No. stainless steel	D	D1	D2	H	H1	L
06240-11-104X10	**06240-11-1104X10**	M4	21	12	21	10	10
06240-11-105X10	**06240-11-1105X10**	M5	21	12	21	10	10
06240-11-206X10	**06240-11-1206X10**	M6	25	14	25	12	10
06240-11-308X15	**06240-11-1308X15**	M8	33	18	33	16	15

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Mushroom knobs

internal thread





Material:
Black thermoplastic.
Bush grade 5.8 steel or 1.4305 stainless steel.

Version:
Steel trivalent blue passivated, stainless steel bright.

Sample order:
nlm 06241-046 (cap colour traffic red)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

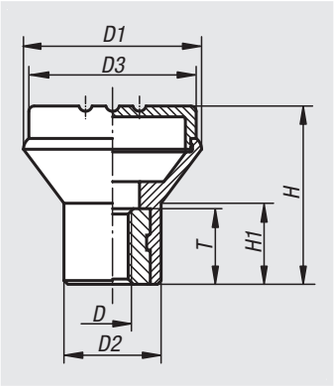
Order No. steel	Order No. stainless steel	D	D1	D2	D3	H	H1	T
06241-04Δ	**06241-004Δ**	M4	21	12	19	21	10	10
06241-05Δ	**06241-005Δ**	M5	21	12	19	21	10	10
06241-06Δ	**06241-006Δ**	M6	25	14	23	25	12	10
06241-08Δ	**06241-008Δ**	M8	33	19	31	33	15	14

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Mushroom knobs antistatic

internal thread





Material:
Thermoplastic, graphite black.
Bush steel 5.8.

Version:
Bush blue passivated

Sample order:
nlm 06241-110524

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity. Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

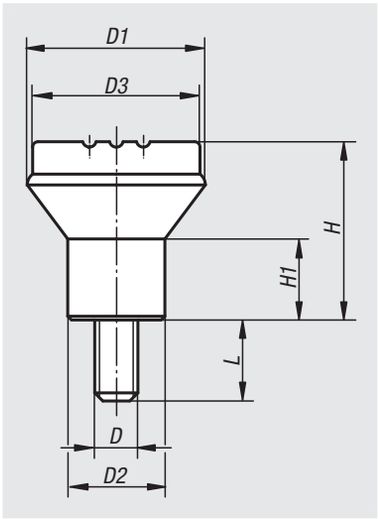
Order No.	Main colour	D	D1	D2	D3	H	H1	T
06241-110524	graphite black RAL 9011	M5	21	12	19	21	10	10

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Mushroom knobs

external thread





Material:
Black thermoplastic.
Screw grade 5.8 steel or 1.4305 stainless steel.

Version:
Steel trivalent blue passivated, stainless steel bright.

Sample order:
nlm 06242-046X10
(cap colour traffic red, include length L)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

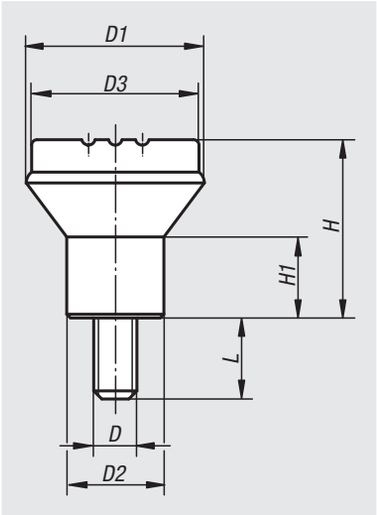
Order No. steel	Order No. stainless steel	D	D1	D2	D3	H	H1	L
06242-04ΔX	**06242-004ΔX**	M4	21	12	19	21	10	10
06242-05ΔX	**06242-005ΔX**	M5	21	12	19	21	10	10
06242-06ΔX	**06242-006ΔX**	M6	25	14	23	25	12	15
06242-08ΔX	**06242-008ΔX**	M8	33	19	31	33	15	15

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Mushroom knobs antistatic

external thread





Material:
Thermoplastic, graphite black.
Threaded pin steel 5.8.

Version:
Screw blue passivated.

Sample order:
nlm 06242-110524X10

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

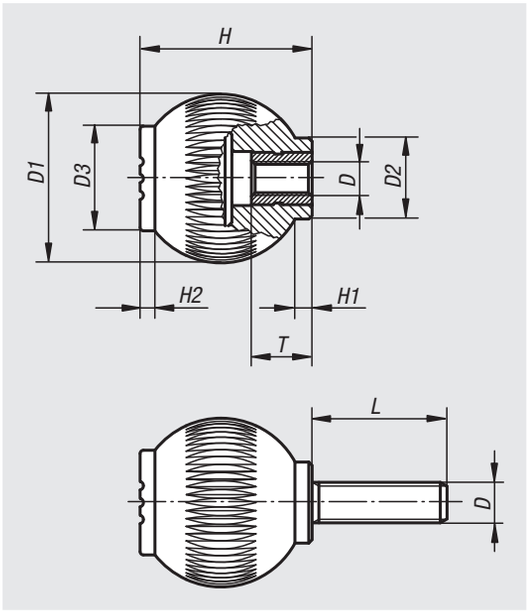
Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Order No.	Main colour	D	D1	D2	D3	H	H1	L
06242-110524X10	graphite black RAL 9011	M5	21	12	19	21	10	10

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Spherical knobs





Material:
Black thermoplastic.
Bush and screw 5.8 steel or 1.4305 stainless steel.

Version:
Steel trivalent blue passivated, stainless steel bright.

Sample order:
nlm 06245-1066X15
(cap colour traffic red; include length L)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

Order No. steel	Order No. stainless steel	D	D1	D2	D3	H	H1	H2	T
06245-106Δ	**06245-0106Δ**	M6	25	12	17	25	3	2	10
06245-208Δ	**06245-0208Δ**	M8	32	15,5	19	33	3,5	2,6	14
06245-310Δ	**06245-0310Δ**	M10	40	19	23	41	4	3	14
06245-410Δ	**06245-0410Δ**	M10	50	24	31	51	5,5	4,5	14
06245-412Δ	**06245-0412Δ**	M12	50	24	31	51	5,5	4,5	18

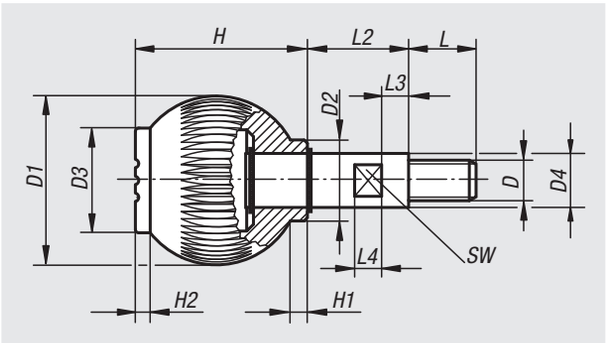
Order No. steel	Order No. stainless steel	D	D1	D2	D3	H	H1	H2	L
06245-106ΔX	**06245-0106ΔX**	M6	25	12	17	25	3	2	15/20/25/30
06245-208ΔX	**06245-0208ΔX**	M8	32	15,5	19	33	3,5	2,6	20/25/30/40
06245-310ΔX	**06245-0310ΔX**	M10	40	19	23	41	4	3	20/30/40
06245-410ΔX	**06245-0410ΔX**	M10	50	24	31	51	5,5	4,5	20/30/40
06245-412ΔX	**06245-0412ΔX**	M12	50	24	31	51	5,5	4,5	20/30/40

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Spherical knobs

revolving





Material:
Thermoplastic, black grey.
Axis steel 5.8 or stainless steel 1.4305.

Version:
Trivalent blue passivated steel or bright stainless steel.
Circlips electro zinc-plated, including stainless steel version.

Sample order:
nlm 06246-1066 (cap colour traffic red)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

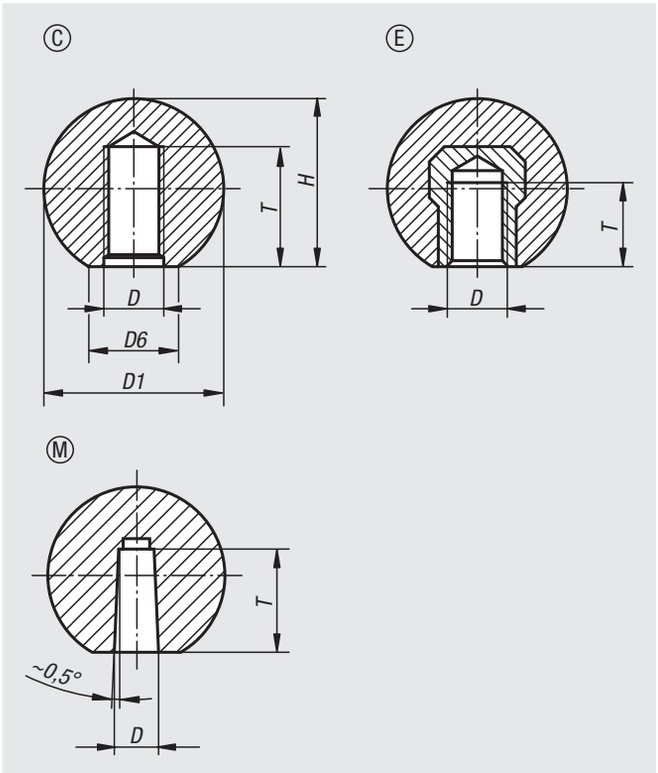
Order No. steel	Order No. stainless steel	D	D1	D2	D3	D4	H	H1	H2	L	L2	L3	L4	SW
06246-106Δ	**06246-0106Δ**	M6	25	12	17	8	25	3	2	10	15	5	5	7
06246-208Δ	**06246-0208Δ**	M8	32	15,5	19	10	33	3,5	2,6	12	20	6	6	8
06246-310Δ	**06246-0310Δ**	M10	40	19	23	13	41	4	3	15	25	7	10	10
06246-412Δ	**06246-0412Δ**	M12	50	24	31	16	51	5,5	4,5	20	30	8	8	13

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Ball knobs

thermoplastic DIN 319 enhanced





Material:
Black thermoplastic.
Bush steel.

Version:
Steel electro zinc-plated.

Sample order:
nlm 06247-11604

On request:
Other colours.

Drawing reference:
Form C: plastic thread
Form E: tapped bush
Form M: tapered hole

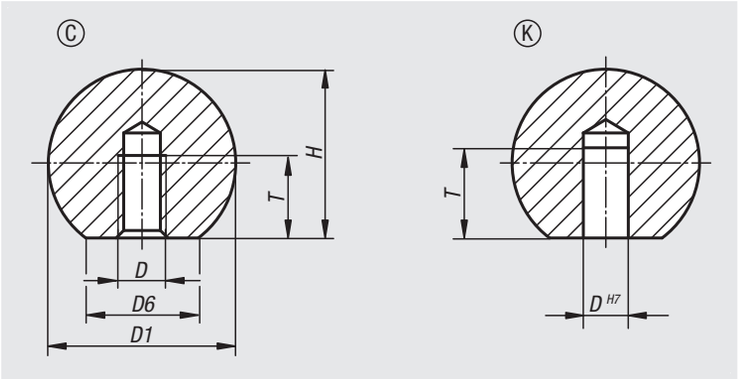
Order No.	Form	D	D1	D6	H	T
06247-11604	C	M4	16	8	15	6
06247-11605	C	M5	16	8	15	7,5
06247-12005	C	M5	20	12	18	7,5
06247-12006	C	M6	20	12	18	9
06247-12506	C	M6	25	15	22,5	9
06247-12508	C	M8	25	15	22,5	12
06247-13208	C	M8	32	18	29	12
06247-13210	C	M10	32	18	29	15
06247-14010	C	M10	40	22	37	15
06247-14012	C	M12	40	22	37	15
06247-22005	E	M5	20	12	18	7,5
06247-22006	E	M6	20	12	18	7,5
06247-22506	E	M6	25	15	22,5	9
06247-22508	E	M8	25	15	22,5	9
06247-23208	E	M8	32	18	29	12
06247-23210	E	M10	32	18	29	12
06247-32005	M	5	20	12	18	12
06247-32506	M	6	25	15	22,5	15
06247-32508	M	8	25	15	22,5	15
06247-33208	M	8	32	18	29	15
06247-33210	M	10	32	18	29	15
06247-34010	M	10	40	22	37	20
06247-34012	M	12	40	22	37	20

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Ball knobs

stainless steel or aluminium DIN 319





Material:
Stainless steel 1.4305 or aluminium.

Version:
Polished.

Sample order:
nlm 06247-116043

Drawing reference:
Form C: tapped hole
Form K: reamed hole

Order No.	Form	Main material	Steel code	D	D1	D6	H	T
06247-116044	C	stainless steel	1.4301	M4	16	8	15	7,2
06247-140104	C	stainless steel	1.4301	M10	40	22	37	18
06247-132084	C	stainless steel	1.4301	M8	32	18	29	14,5
06247-150124	C	stainless steel	1.4301	M12	50	28	46	21
06247-125064	C	stainless steel	1.4301	M6	25	15	22,5	11
06247-120054	C	stainless steel	1.4301	M5	20	12	18	9,1
06247-116043	C	aluminium	-	M4	16	8	15	7,2
06247-120053	C	aluminium	-	M5	20	12	18	9,1
06247-125063	C	aluminium	-	M6	25	15	22,5	11
06247-132083	C	aluminium	-	M8	32	18	29	14,5
06247-140103	C	aluminium	-	M10	40	22	37	18
06247-150123	C	aluminium	-	M12	50	28	46	21

Order No.	Form	Main material	Steel code	D	D1	D6	H	T
06247-316042	K	stainless steel	1.4305	6	16	8	15	10
06247-320052	K	stainless steel	1.4305	8	20	12	18	12
06247-325062	K	stainless steel	1.4305	10	25	15	22,5	16
06247-332082	K	stainless steel	1.4305	12	32	18	29	20
06247-340102	K	stainless steel	1.4305	16	40	22	37	25
06247-350122	K	stainless steel	1.4305	20	50	28	46	32
06247-316043	K	aluminium	-	6	16	8	15	10
06247-320053	K	aluminium	-	8	20	12	18	12
06247-325063	K	aluminium	-	10	25	15	22,5	16
06247-332083	K	aluminium	-	12	32	18	29	20
06247-340103	K	aluminium	-	16	40	22	37	25
06247-350123	K	aluminium	-	20	50	28	46	32

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Ball knobs smooth

DIN 319 enhanced



Material:
Thermoset PF 31, black or red.
Bush electro zinc-plated steel.

Version:
High-gloss polished.

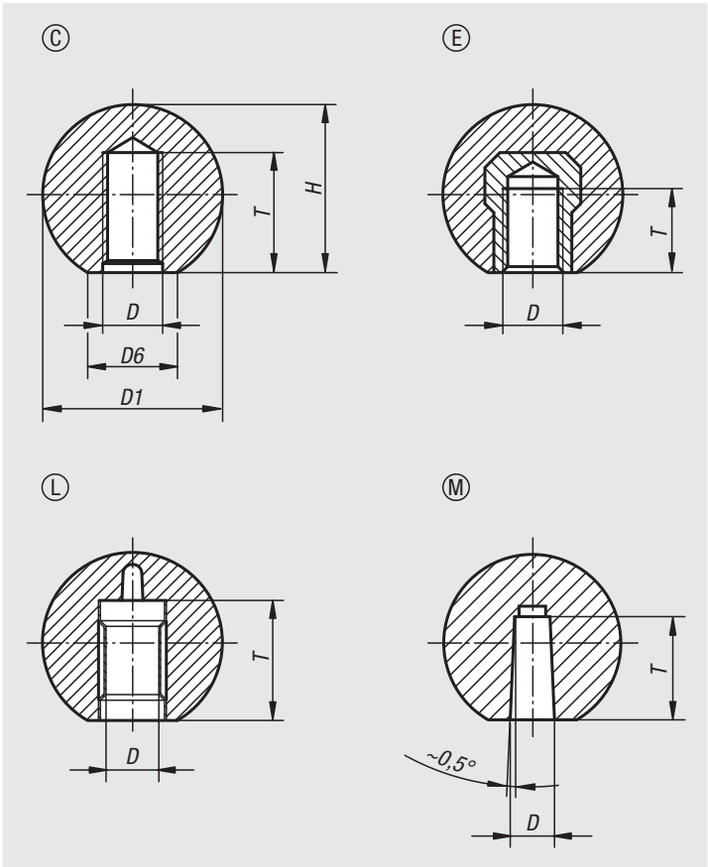
Sample order:
nlm 06250-11604

Assembly:
Assembly Form L: The ball knobs are mounted firmly by tapping a hammer lightly. Please only use a rubber or plastic hammer, with a weight up to 200 g!

The version 06250-21604 has a brass bush.
The versions 06250-23008, 06250-230081, 06250-23508 and 06250-24008 have copper-plated steel bushes.

Shank tolerance:
Ball knobs with press-fit sleeve can be mounted on standard shafts with tolerance h9. The supplied press-fit sleeve assures a firm and reliable fit.

Drawing reference:
Form C: moulded thread
Form E: tapped bush
Form L: press-fit sleeve
Form M: tapered hole



Order No. black	Order No. red	Form	D	D1	D6	H	T
06250-11604	**06250-116041**	C	M4	16	8	15	6
06250-11605	**06250-116051**	C	M5	16	8	15	7,5
06250-12005	**06250-120051**	C	M5	20	12	18	7,5
06250-11606	-	C	M6	16	8	15	9
06250-12006	**06250-120061**	C	M6	20	12	18	9
06250-12506	**06250-125061**	C	M6	25	15	23	9
06250-12508	**06250-125081**	C	M8	25	15	23	12
06250-13008	**06250-130081**	C	M8	30	16	28	12
06250-13208	**06250-132081**	C	M8	32	18	29	12
06250-13508	-	C	M8	36	17	33	18
06250-14008	**06250-140081**	C	M8	40	20	37,5	12
06250-13210	-	C	M10	32	18	29	15
06250-13510	**06250-135101**	C	M10	36	17	33	15
06250-14010	**06250-140101**	C	M10	40	20	37,5	15
06250-14510	-	C	M10	45	20	43	15
06250-15010	**06250-150101**	C	M10	50	22	48	15
06250-14012	-	C	M12	40	20	37,5	18
06250-14512	-	C	M12	45	20	43	18
06250-15012	**06250-150121**	C	M12	50	28	48	18

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Ball knobs smooth

DIN 319 enhanced

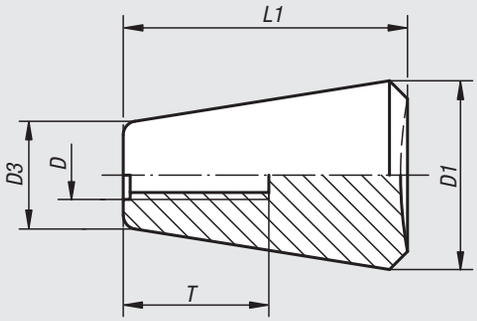
Order No. black	Order No. red	Form	D	D1	D6	H	T
06250-21604	-	E	M4	16	8	15	6
06250-22005	**06250-220051**	E	M5	20	12	18	7,5
06250-22006	-	E	M6	20	12	18	9
06250-22506	**06250-225061**	E	M6	25	15	23	9
06250-22508	-	E	M8	25	15	23	12
06250-23008	**06250-230081**	E	M8	30	16	28	12
06250-23208	-	E	M8	32	18	29	12
06250-23508	-	E	M8	36	17	33	14
06250-24008	-	E	M8	40	20	37,5	14
06250-23210	-	E	M10	32	18	29	15
06250-23510	**06250-235101**	E	M10	36	17	33	14
06250-24010	**06250-240101**	E	M10	40	20	37,5	15
06250-24510	-	E	M10	45	20	43	22
06250-25010	-	E	M10	50	22	48	15
06250-24012	**06250-240121**	E	M12	40	20	37,5	18
06250-24512	-	E	M12	45	20	43	21
06250-25012	**06250-250121**	E	M12	50	28	48	18

Order No.	Form	Main colour	D	D1	D6	H	T
06250-42005	L	black	5	20	12	18	13
06250-42506	L	black	6	25	15	23	16
06250-42508	L	black	8	25	15	23	15
06250-43208	L	black	8	32	18	29	15
06250-43210	L	black	10	32	18	29	20
06250-44010	L	black	10	40	20	37,5	20
06250-44012	L	black	12	40	20	37,5	23
06250-45012	L	black	12	50	28	48	20

Order No.	Form	Main colour	D	D1	D6	H	T
06250-31604	M	black	4	16	8	15	9
06250-32005	M	black	5	20	12	18	12
06250-32506	M	black	6	25	15	23	15
06250-32508	M	black	8	25	15	23	15
06250-33208	M	black	8	32	18	29	15
06250-33210	M	black	10	32	18	29	15
06250-34010	M	black	10	40	20	37,5	20
06250-34012	M	black	12	40	20	37,5	20
06250-35012	M	black	12	50	28	48	22

Tapered knobs

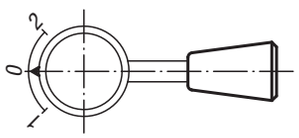




Material:
Black thermoset PF 31

Version:
Moulded thread.

Sample order:
nlm 06251-06

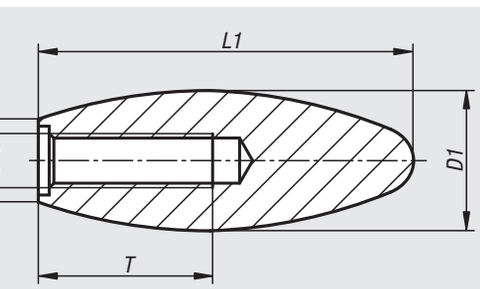


Order No.	D	D1	D3	L1	T
06251-05	M5	20	12	30	15
06251-061	M6	20	12	30	18
06251-06	M6	25	15	38	19
06251-081	M8	25	15	38	18
06251-08	M8	30	18	46	16
06251-101	M10	30	18	46	18
06251-10	M10	35	21	53	19
06251-12	M12	35	21	53	21

06252

Conical knobs





Material:
Black thermoset PF 31

Version:
High-gloss polished.

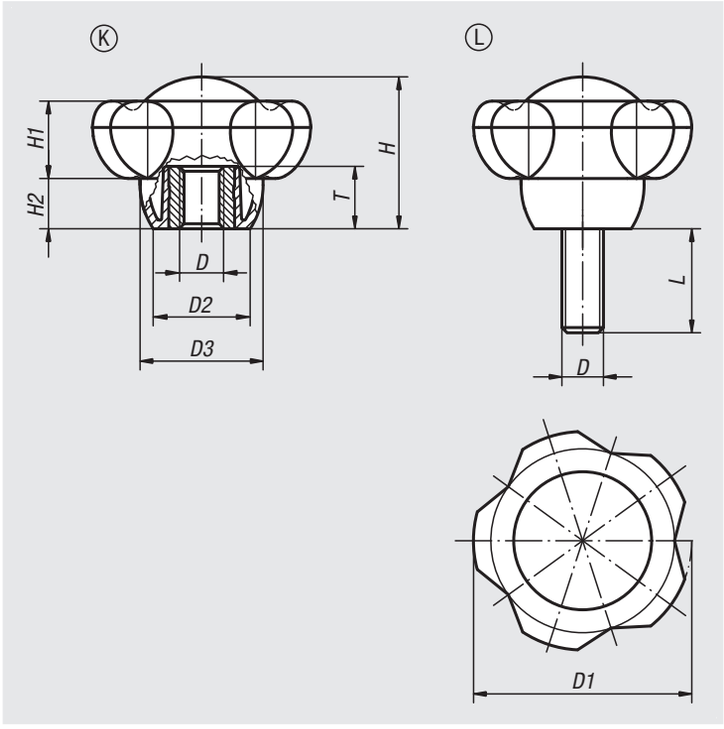
Sample order:
nlm 06252-120

Order No.	D	D1	D2	L1	T
06252-050	M5	14	7	34	25
06252-060	M6	23	14	60	17
06252-080	M8	22	14	60	25
06252-081	M8	26	16	70	19
06252-100	M10	27	15,5	70	25
06252-101	M10	35	22	85	25
06252-120	M12	27	15,5	70	25
06252-121	M12	35	22	85	25
06252-160	M16	35	22	85	30

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Five lobe grips





Material:
Black thermoplastic.
Bush and screw 5.8 steel or 1.4305 stainless steel.

Version:
Steel trivalent blue passivated, stainless steel bright.

Sample order:
nlm 06253-50106X30
(cap colour traffic red; include length L)

Note:
The screw lengths 15, 35 and 45 are not available in stainless steel.
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

Order No. steel	Order No. stainless steel	Form	D	D1	D2	D3	H	H1	H2	T
06253-5008Δ	**06253-50081Δ**	K	M8	50	22,2	28,2	34,8	17,8	11,5	14
06253-5010Δ	**06253-50101Δ**	K	M10	50	22,2	28,2	34,8	17,8	11,5	14
06253-5012Δ	**06253-50121Δ**	K	M12	50	22,2	28,2	34,8	17,8	11,5	18
06253-6310Δ	**06253-63101Δ**	K	M10	63	28	35,5	44	22,5	14,5	14
06253-6312Δ	**06253-63121Δ**	K	M12	63	28	35,5	44	22,5	14,5	18
06253-6316Δ	-	K	M16	63	28	35,5	44	22,5	14,5	18

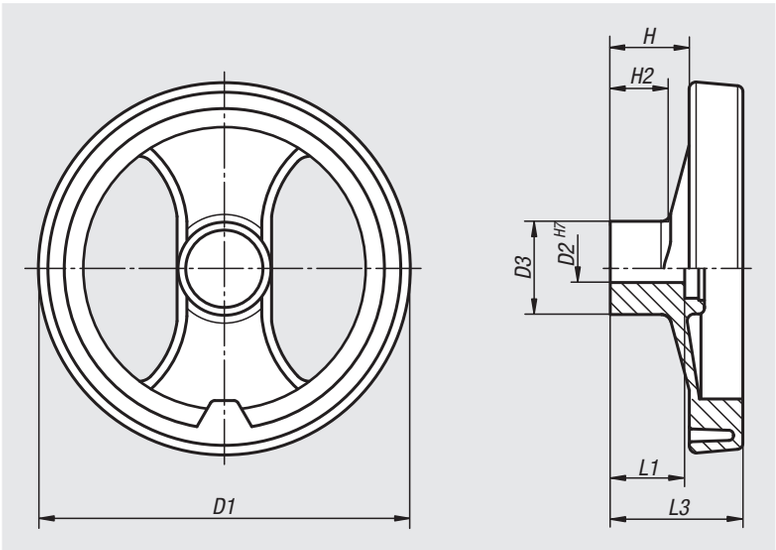
Order No. steel	Order No. stainless steel	Form	D	D1	D2	D3	H	H1	H2	L
06253-5010ΔX	**06253-50101ΔX**	L	M10	50	22,2	28,2	34,8	17,8	11,5	15/20/25/30/35/40/45/50/60
06253-5012ΔX	-	L	M12	50	22,2	28,2	34,8	17,8	11,5	15/20/25/30/35/40/45/50/60
06253-6310ΔX	**06253-63101ΔX**	L	M10	63	28	35,5	44	22,5	14,5	20/25/30/35/40/45/50/60
06253-6312ΔX	-	L	M12	63	28	35,5	44	22,5	14,5	20/25/30/35/40/45/50/60

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Handwheels 2-spoke

plastic





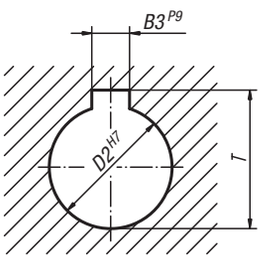
Material:
Handwheel, reinforced and stabilised polyamide.
Centre caps, polyamide.
Centre bushes, steel.

Version:
Handwheel, oil and grease resistant, black (RAL 9011), satin finish.
Centre caps, grey (RAL 7035).
Centre bushes, black oxidised.

Sample order:
nlm 06255-0080X08

On request:
Other cap colours.
Special versions.

DIN 6885-1



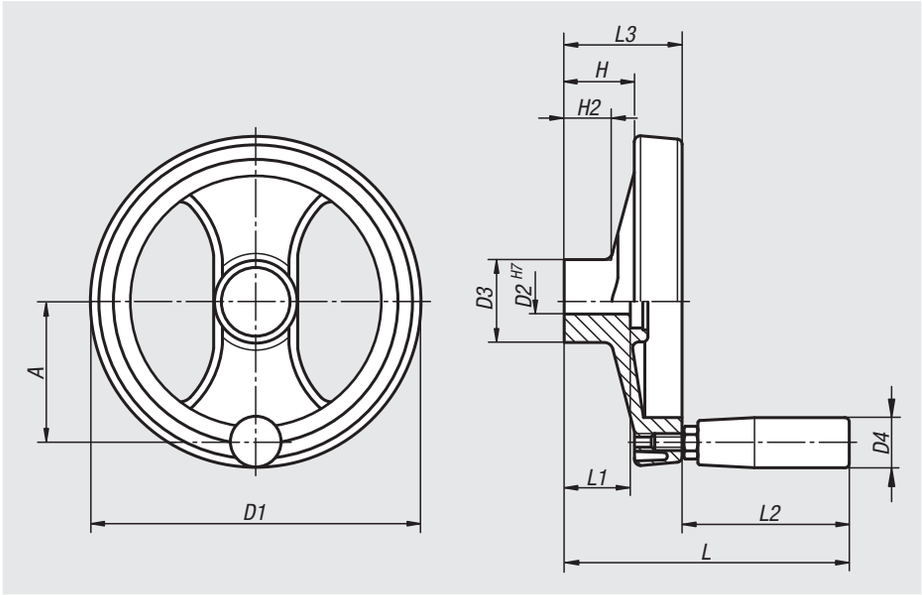
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	H	H2	L1	L3	B3	T
06255-0080X08	**06255-1080X08**	80	8H7	24,5	20	16	20	34	-/2	-/9
06255-0080X10	**06255-1080X10**	80	10H7	24,5	20	16	20	34	-/3	-/11,4
06255-0100X10	**06255-1100X10**	99	10H7	28	25,5	20	24	42	-/3	-/11,4
06255-0100X12	**06255-1100X12**	99	12H7	28	25,5	20	24	42	-/4	-/13,8
06255-0130X12	**06255-1130X12**	129	12H7	32	30	21	24	50	-/4	-/13,8
06255-0130X14	**06255-1130X14**	129	14H7	32	30	21	24	50	-/5	-/16,3
06255-0160X14	**06255-1160X14**	159	14H7	40	33	22	32	57	-/5	-/16,3
06255-0160X16	**06255-1160X16**	159	16H7	40	33	22	32	57	-/5	-/18,3
06255-0200X16	**06255-1200X16**	198	16H7	51	31	17,5	32	60	-/5	-/18,3
06255-0200X20	**06255-1200X20**	198	20H7	51	31	17,5	32	60	-/6	-/22,8
06255-0250X20	**06255-1250X20**	252	20H7	55,5	39,5	24	36	71	-/6	-/22,8
06255-0250X24	**06255-1250X24**	252	24H7	55,5	39,5	24	36	71	-/8	-/27,3
06255-0345X20	**06255-1345X20**	346	20H7	67,5	42	24	32	79	-/6	-/22,8

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Handwheels 2-spoke

plastic, with revolving grip





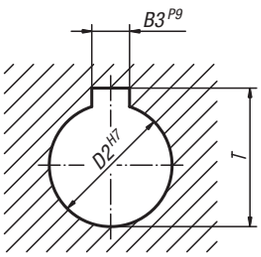
Material:
Handwheel, reinforced and stabilised polyamide.
Centre caps, polyamide.
Centre bushes, steel.
Tapped insert for cylinder grip, brass.

Version:
Handwheel, oil and grease resistant, black (RAL 9011), satin finish.
Centre caps, grey (RAL 7035).
Centre bushes, black oxidised.

Sample order:
nlm 06255-4080X08

On request:
Other cap colours.
Special versions.

DIN 6885-1



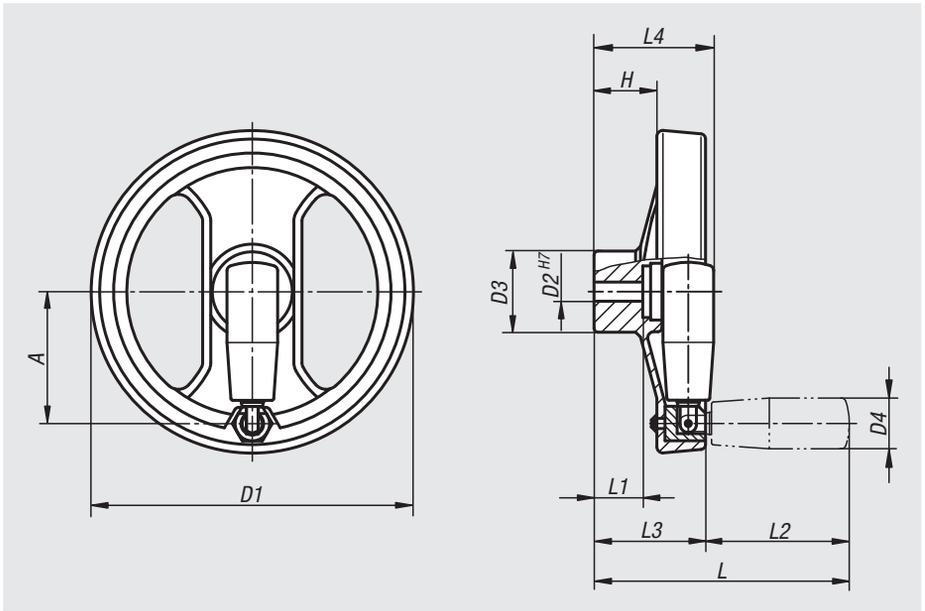
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	D4	H	H2	A	L	L1	L2	L3	B3	T
06255-4080X08	**06255-5080X08**	80	8H7	24,5	20	20	16	30	85	20	51	34	-/2	-/9
06255-4080X10	**06255-5080X10**	80	10H7	24,5	20	20	16	30	85	20	51	34	-/3	-/11,4
06255-4100X10	**06255-5100X10**	99	10H7	28	20	25,5	20	38	93	24	51	43	-/3	-/11,4
06255-4100X12	**06255-5100X12**	99	12H7	28	20	25,5	20	38	93	24	51	43	-/4	-/13,8
06255-4130X12	**06255-5130X12**	129	12H7	32	23	30	21	55	112	24	62	50	-/4	-/13,8
06255-4130X14	**06255-5130X14**	129	14H7	32	23	30	21	55	112	24	62	50	-/5	-/16,3
06255-4160X14	**06255-5160X14**	159	14H7	40	23	33	22	66	119	32	62	57	-/5	-/16,3
06255-4160X16	**06255-5160X16**	159	16H7	40	23	33	22	66	119	32	62	57	-/5	-/18,3
06255-4200X16	**06255-5200X16**	198	16H7	51	26	31	17,5	82	141	32	81	60	-/5	-/18,3
06255-4200X20	**06255-5200X20**	198	20H7	51	26	31	17,5	82	141	32	81	60	-/6	-/22,8
06255-4250X20	**06255-5250X20**	252	20H7	55,5	27	39,5	24	113	163	36	92	71	-/6	-/22,8
06255-4250X24	**06255-5250X24**	252	24H7	55,5	27	39,5	24	113	163	36	92	71	-/8	-/27,3
06255-4345X20	**06255-5345X20**	346	20H7	67,5	27	42	24	146	171	32	92	79	-/6	-/22,8

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Handwheels 2-spoke

plastic, with folding grip





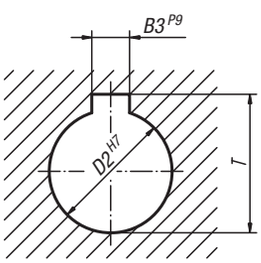
Material:
Handwheel, reinforced and stabilised polyamide.
Centre caps, polyamide.
Centre bush and tapped insert for cylinder grip, steel.

Version:
Handwheel, oil and grease resistant, black (RAL 9011), satin finish.
Centre caps, grey (RAL 7035).
Centre bush and tapeed insert for folding grip, black oxidised.

Sample order:
nlm 06255-6130X12

On request:
Other cap colours.
Special versions.

DIN 6885-1

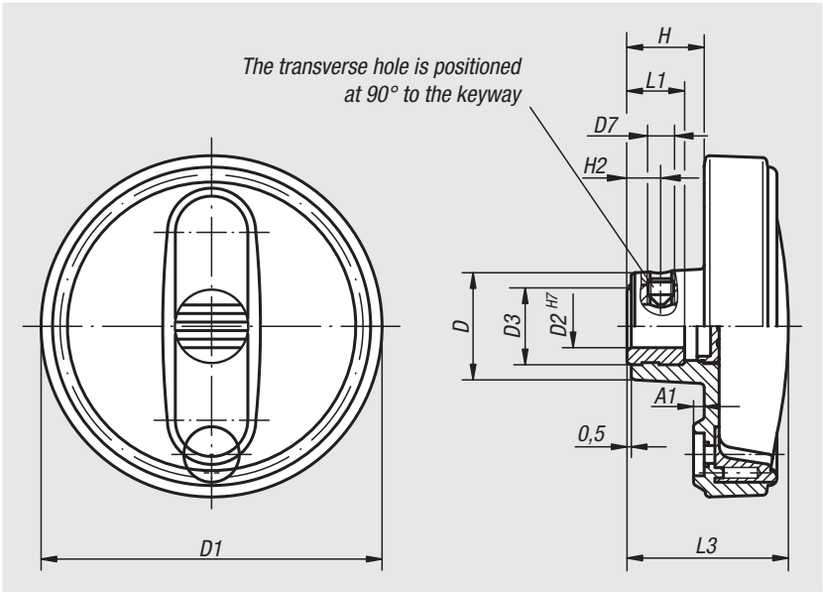


Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	D4	A	H	L	L1	L2	L3	L4	B3	T
06255-6130X12	**06255-7130X12**	129	12H7	32	20	51	29	111	20	59	52	53	-/4	-/13,8
06255-6130X14	**06255-7130X14**	129	14H7	32	20	51	29	111	20	59	52	53	-/5	-/16,3
06255-6160X14	**06255-7160X14**	159	14H7	40	25	65	31	126	24	71	55	59	-/5	-/16,3
06255-6160X16	**06255-7160X16**	159	16H7	40	25	65	31	126	24	71	55	59	-/5	-/18,3
06255-6200X16	**06255-7200X16**	200	16H7	54,5	27	80	33	160	28	91	69	69	-/5	-/18,3
06255-6200X20	**06255-7200X20**	200	20H7	54,5	27	80	33	160	28	91	69	69	-/6	-/22,8
06255-6345X20	**06255-7345X20**	346	20H7	67,5	27	148	43,5	144	32	91	80	80	-/6	-/22,8

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Handwheels





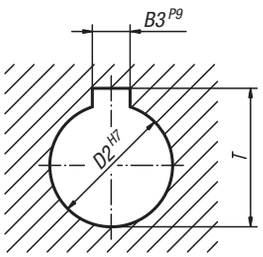
Material:
Black grey thermoplastic.

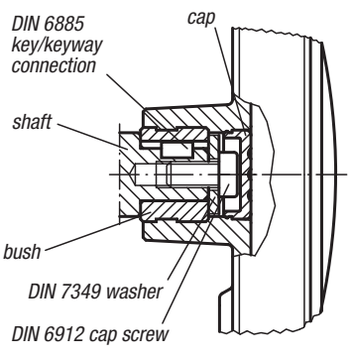
Version:
Steel parts black oxidised.

Sample order:
nlm 06262-108008

Note:
The hub cap is supplied loose.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Versions with transverse bore are fastened using the ISO 4027 (DIN 914) grub screws.

DIN 6885-1





Handwheels

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	A1	H	L1	L3	B3	T
06262-108008	**06262-10800802**	25	80	8H7	19	2,5	17,5	13	37,5	-/2	-/9
06262-108010	**06262-10801003**	25	80	10H7	19	2,5	17,5	13	37,5	-/3	-/11,4
06262-108012	**06262-10801204**	25	80	12H7	19	2,5	17,5	13	37,5	-/4	-/13,8
06262-210010	**06262-21001003**	28	100	10H7	19	3	20	13	44	-/3	-/11,4
06262-210012	**06262-21001204**	28	100	12H7	19	3	20	13	44	-/4	-/13,8
06262-312512	**06262-31251204**	35	125	12H7	25	4	23,5	18,5	53	-/4	-/13,8
06262-312514	**06262-31251405**	35	125	14H7	25	4	23,5	18,5	53	-/5	-/16,3
06262-312516	**06262-31251605**	35	125	16H7	25	4	23,5	18,5	53	-/5	-/18,3
06262-416014	**06262-41601405**	45	160	14H7	25	5,6	28	18,5	64,5	-/5	-/16,3
06262-416016	**06262-41601605**	45	160	16H7	25	5,6	28	18,5	64,5	-/5	-/18,3

Handwheels with transverse bore

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D7	A1	H	H2	L1	L3	B3	T
06262-1080086	**06262-108008026**	25	80	8H7	19	M6	2,5	17,5	7,5	13	37,5	-/2	-/9
06262-1080106	**06262-108010036**	25	80	10H7	19	M6	2,5	17,5	7,5	13	37,5	-/3	-/11,4
06262-1080126	**06262-108012046**	25	80	12H7	19	M6	2,5	17,5	7,5	13	37,5	-/4	-/13,8
06262-2100106	**06262-210010036**	28	100	10H7	19	M6	3	20	7,5	13	44	-/3	-/11,4
06262-2100126	**06262-210012046**	28	100	12H7	19	M6	3	20	7,5	13	44	-/4	-/13,8
06262-3125126	**06262-312512046**	35	125	12H7	25	M6	4	23,5	7,5	18,5	53	-/4	-/13,8
06262-3125146	**06262-312514056**	35	125	14H7	25	M6	4	23,5	7,5	18,5	53	-/5	-/16,3
06262-3125166	**06262-312516056**	35	125	16H7	25	M6	4	23,5	7,5	18,5	53	-/5	-/18,3
06262-4160146	**06262-416014056**	45	160	14H7	25	M6	5,6	28	7,5	18,5	64,5	-/5	-/16,3
06262-4160166	**06262-416016056**	45	160	16H7	25	M6	5,6	28	7,5	18,5	64,5	-/5	-/18,3

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Handwheels

with revolving grip

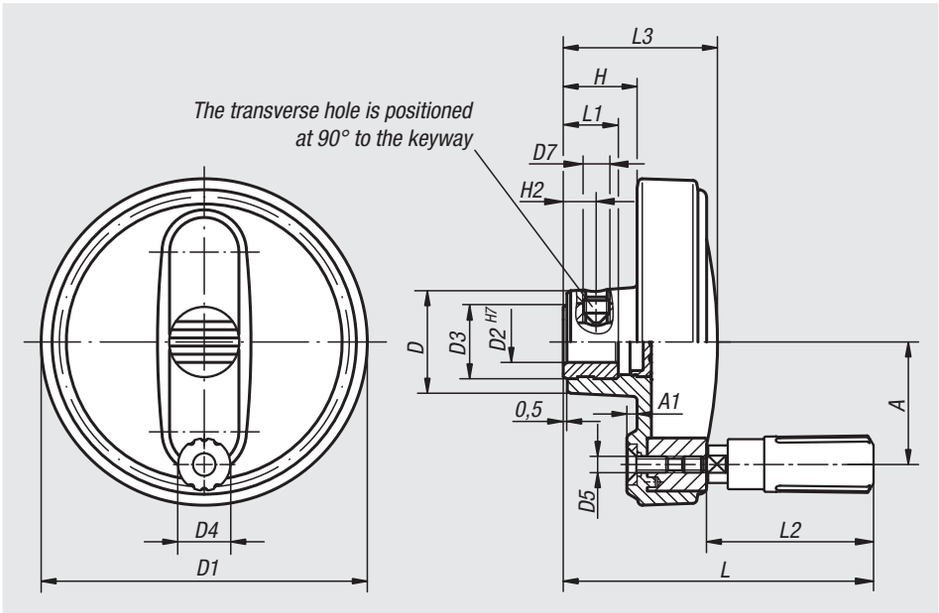


Material:
Black grey thermoplastic.

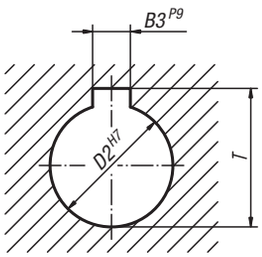
Version:
Steel parts black oxidised.

Sample order:
nlm 06263-108008

Note:
The hub cover and the revolving cylinder grip are supplied unassembled. To assemble, screw the grip into the tapped hole.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Versions with transverse bore are secured using the ISO 4026 (DIN 913) grub screw.
For assembly example, see 06262.



DIN 6885-1



Handwheels with revolving cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D4	D5	A	A1	H	L	L1	L2	L3	B3	T
06263-108008	**06263-10800802**	25	80	8H7	19	14	M4	30	2,5	17,6	74,6	13	40	36,7	-/2	-/9
06263-108010	**06263-10801003**	25	80	10H7	19	14	M4	30	2,5	17,6	74,6	13	40	36,7	-/3	-/11,4
06263-108012	**06263-10801204**	25	80	12H7	19	14	M4	30	2,5	17,6	74,6	13	40	36,7	-/4	-/13,8
06263-210010	**06263-21001003**	28	100	10H7	19	16	M5	38	3	20,1	90,2	13	49,1	43,5	-/3	-/11,4
06263-210012	**06263-21001204**	28	100	12H7	19	16	M5	38	3	20,1	90,2	13	49,1	43,5	-/4	-/13,8
06263-312512	**06263-31251204**	35	125	12H7	25	20	M6	47,5	4	23,3	110,7	18,5	61,4	52,1	-/4	-/13,8
06263-312514	**06263-31251405**	35	125	14H7	25	20	M6	47,5	4	23,3	110,7	18,5	61,4	52,1	-/5	-/16,3
06263-312516	**06263-31251605**	35	125	16H7	25	20	M6	47,5	4	23,3	110,7	18,5	61,4	52,1	-/5	-/18,3
06263-416014	**06263-41601405**	45	160	14H7	25	25	M8	62	5,6	28	143	18,5	82,5	63,8	-/5	-/16,3
06263-416016	**06263-41601605**	45	160	16H7	25	25	M8	62	5,6	28	143	18,5	82,5	63,8	-/5	-/18,3

Handwheels with revolving cylinder grip with transverse bore

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D4	D5	D7	A	A1	H	H2	L	L1	L2	L3	B3	T
06263-1080086	**06263-108008026**	25	80	8H7	19	14	M4	M6	30	2,5	17,6	7,5	74,6	13	40	36,7	-/2	-/9
06263-1080106	**06263-108010036**	25	80	10H7	19	14	M4	M6	30	2,5	17,6	7,5	74,6	13	40	36,7	-/3	-/11,4
06263-1080126	**06263-108012046**	25	80	12H7	19	14	M4	M6	30	2,5	17,6	7,5	74,6	13	40	36,7	-/4	-/13,8
06263-2100106	**06263-210010036**	28	100	10H7	19	16	M5	M6	38	3	20,1	7,5	90,2	13	49,1	43,5	-/3	-/11,4
06263-2100126	**06263-210012046**	28	100	12H7	19	16	M5	M6	38	3	20,1	7,5	90,2	13	49,1	43,5	-/4	-/13,8
06263-3125126	**06263-312512046**	35	125	12H7	25	20	M6	M6	47,5	4	23,3	7,5	110,7	18,5	61,4	52,1	-/4	-/13,8
06263-3125146	**06263-312514056**	35	125	14H7	25	20	M6	M6	47,5	4	23,3	7,5	110,7	18,5	61,4	52,1	-/5	-/16,3
06263-3125166	**06263-312516056**	35	125	16H7	25	20	M6	M6	47,5	4	23,3	7,5	110,7	18,5	61,4	52,1	-/5	-/18,3
06263-4160146	**06263-416014056**	45	160	14H7	25	25	M8	M6	62	5,6	28	7,5	143	18,5	82,5	63,8	-/5	-/16,3
06263-4160166	**06263-416016056**	45	160	16H7	25	25	M8	M6	62	5,6	28	7,5	143	18,5	82,5	63,8	-/5	-/18,3

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Handwheels

with fold-away grip

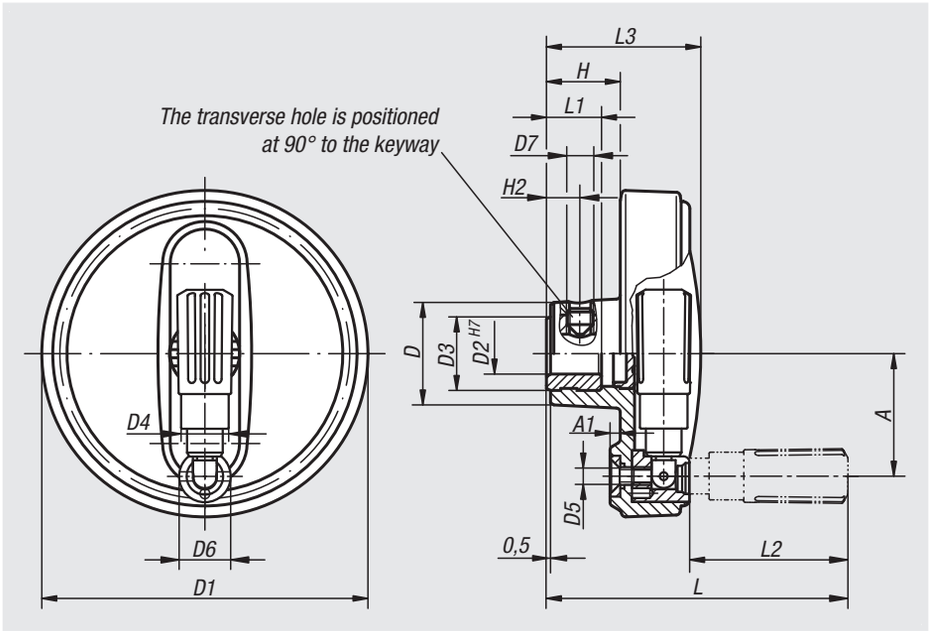


Material:
Black grey thermoplastic.

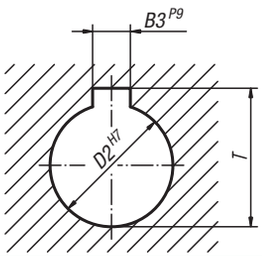
Version:
Steel parts black oxidised.

Sample order:
nlm 06264-108008

Note:
The hub cover is supplied loose.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Versions with transverse bore are secured using the ISO 4026 (DIN 913) grub screw.
For assembly example, see 06262.



DIN 6885-1



Handwheels with fold-down cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D4	D5	D6	A	A1	H	L	L1	L2	L3	B3	T
06264-1080086	**06264-108008026**	25	80	8H7	19	14	M4	13	30	2,5	17,6	74,6	13	40	36,7	-/2	-/9
06264-1080106	**06264-108010036**	25	80	10H7	19	14	M4	13	30	2,5	17,6	74,6	13	40	36,7	-/3	-/11,4
06264-1080126	**06264-108012046**	25	80	12H7	19	14	M4	13	30	2,5	17,6	74,6	13	40	36,7	-/4	-/13,8
06264-2100106	**06264-210010036**	28	100	10H7	19	16	M5	16	38	3	20,1	90,1	13	49	43,5	-/3	-/11,4
06264-2100126	**06264-210012046**	28	100	12H7	19	16	M5	16	38	3	20,1	90,1	13	49	43,5	-/4	-/13,8
06264-3125126	**06264-312512046**	35	125	12H7	25	20	M6	20	47,5	4	23,3	108,8	18,5	59,5	52,1	-/4	-/13,8
06264-3125146	**06264-312514056**	35	125	14H7	25	20	M6	20	47,5	4	23,3	108,8	18,5	59,5	52,1	-/5	-/16,3
06264-3125166	**06264-312516056**	35	125	16H7	25	20	M6	20	47,5	4	23,3	108,8	18,5	59,5	52,1	-/5	-/18,3
06264-4160146	**06264-416014056**	45	160	14H7	25	25	M8	26	62	5,6	28	143,5	18,5	83	63,8	-/5	-/16,3
06264-4160166	**06264-416016056**	45	160	16H7	25	25	M8	26	62	5,6	28	143,5	18,5	83	63,8	-/5	-/18,3

Handwheels with fold-down grip, with transverse bore

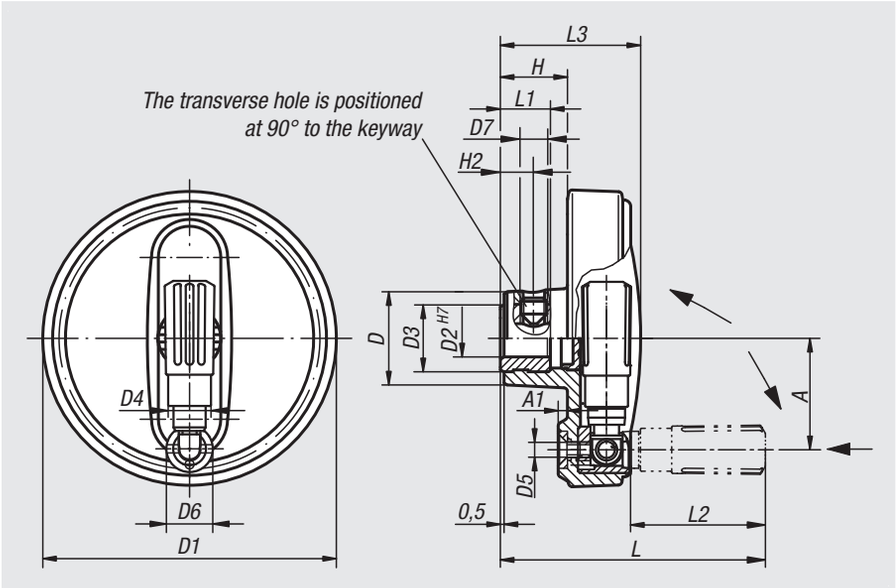
Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D4	D5	D6	D7	A	A1	H	H2	L	L1	L2	L3	B3	T
06264-108008	**06264-10800802**	25	80	8H7	19	14	M4	13		30	2,5	17,6		74,6	13	40	36,7	-/2	-/9
06264-108010	**06264-10801003**	25	80	10H7	19	14	M4	13		30	2,5	17,6		74,6	13	40	36,7	-/3	-/11,4
06264-108012	**06264-10801204**	25	80	12H7	19	14	M4	13		30	2,5	17,6		74,6	13	40	36,7	-/4	-/13,8
06264-210010	**06264-21001003**	28	100	10H7	19	16	M5	16		38	3	20,1		90,1	13	49	43,5	-/3	-/11,4
06264-210012	**06264-21001204**	28	100	12H7	19	16	M5	16		38	3	20,1		90,1	13	49	43,5	-/4	-/13,8
06264-312512	**06264-31251204**	35	125	12H7	25	20	M6	20		47,5	4	23,3		108,8	18,5	59,5	52,1	-/4	-/13,8
06264-312514	**06264-31251405**	35	125	14H7	25	20	M6	20		47,5	4	23,3		108,8	18,5	59,5	52,1	-/5	-/16,3
06264-312516	**06264-31251605**	35	125	16H7	25	20	M6	20		47,5	4	23,3		108,8	18,5	59,5	52,1	-/5	-/18,3
06264-416014	**06264-41601405**	45	160	14H7	25	25	M8	26		62	5,6	28		143,5	18,5	83	63,8	-/5	-/16,3
06264-416016	**06264-41601605**	45	160	16H7	25	25	M8	26		62	5,6	28		143,5	18,5	83	63,8	-/5	-/18,3

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Handwheels

with safety grip





Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
nlm 06265-108008

Note:
The hub cover is supplied unassembled.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.Two actions must be made to bring the cylindrical safety grip into an operating position:
- Swing the grip out up to the stop (90°).
- Push the grip in an axial direction into the lock position.

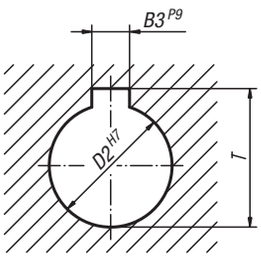
The pushed-in position is the most comfortable for cranking. The grip swings back automatically after releasing.
Versions with transverse bore are secured using the ISO 4026 (DIN 913) grub screw.
For assembly example, see 06262.

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Handwheels

with safety grip

DIN 6885-1



Handwheels with safety cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D4	D5	D6	A	A1	H	L	L1	L2	L3	B3	T
06265-108008	06265-10800802	25	80	8H7	19	14	M4	13	30	2,5	17,6	72,6	13	38	36,7	-/2	-/9
06265-108010	06265-10801003	25	80	10H7	19	14	M4	13	30	2,5	17,6	72,6	13	38	36,7	-/3	-/11,4
06265-108012	06265-10801204	25	80	12H7	19	14	M4	13	30	2,5	17,6	72,6	13	38	36,7	-/4	-/13,8
06265-210010	06265-21001003	28	100	10H7	19	16	M5	16	38	3	20,1	88,6	13	47,5	43,5	-/3	-/11,4
06265-210012	06265-21001204	28	100	12H7	19	16	M5	16	38	3	20,1	88,6	13	47,5	43,5	-/4	-/13,8
06265-312512	06265-31251204	35	125	12H7	25	20	M6	20	47,5	4	23,3	107,7	18,5	58,4	52,1	-/4	-/13,8
06265-312514	06265-31251405	35	125	14H7	25	20	M6	20	47,5	4	23,3	107,7	18,5	58,4	52,1	-/5	-/16,3
06265-312516	06265-31251605	35	125	16H7	25	20	M6	20	47,5	4	23,3	107,7	18,5	58,4	52,1	-/5	-/18,3
06265-416014	06265-41601405	45	160	14H7	25	25	M8	26	62	5,6	28	142	18,5	81,6	63,8	-/5	-/16,3
06265-416016	06265-41601605	45	160	16H7	25	25	M8	26	62	5,6	28	142	18,5	81,6	63,8	-/5	-/18,3

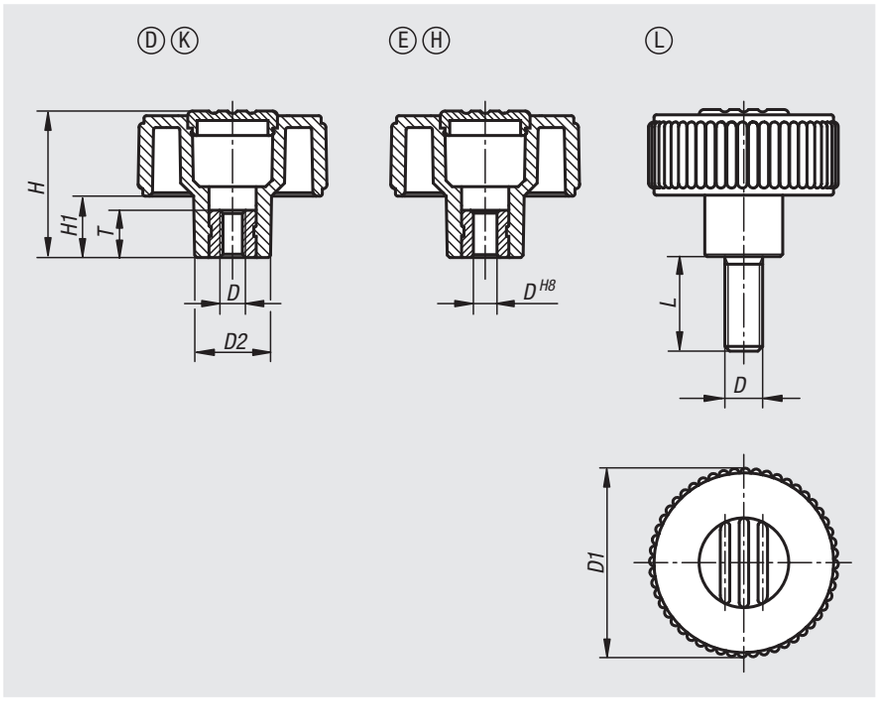
Handwheels with safety cylinder grip with transverse bore

Order No. reamed hole	Order No. reamed hole with slot	D	D1	D2	D3	D4	D5	D6	D7	A	A1	H	H2	L	L1	L2	L3	B3	T
06265-1080086	06265-108008026	25	80	8H7	19	14	M4	13	M6	30	2,5	17,6	7,5	72,6	13	38	36,7	-/2	-/9
06265-1080106	06265-108010036	25	80	10H7	19	14	M4	13	M6	30	2,5	17,6	7,5	72,6	13	38	36,7	-/3	-/11,4
06265-1080126	06265-108012046	25	80	12H7	19	14	M4	13	M6	30	2,5	17,6	7,5	72,6	13	38	36,7	-/4	-/13,8
06265-2100106	06265-210010036	28	100	10H7	19	16	M5	16	M6	38	3	20,1	7,5	88,6	13	47,5	43,5	-/3	-/11,4
06265-2100126	06265-210012046	28	100	12H7	19	16	M5	16	M6	38	3	20,1	7,5	88,6	13	47,5	43,5	-/4	-/13,8
06265-3125126	06265-312512046	35	125	12H7	25	20	M6	20	M6	47,5	4	23,3	7,5	107,7	18,5	58,4	52,1	-/4	-/13,8
06265-3125146	06265-312514056	35	125	14H7	25	20	M6	20	M6	47,5	4	23,3	7,5	107,7	18,5	58,4	52,1	-/5	-/16,3
06265-3125166	06265-312516056	35	125	16H7	25	20	M6	20	M6	47,5	4	23,3	7,5	107,7	18,5	58,4	52,1	-/5	-/18,3
06265-4160146	06265-416014056	45	160	14H7	25	25	M8	26	M6	62	5,6	28	7,5	142	18,5	81,6	63,8	-/5	-/16,3
06265-4160166	06265-416016056	45	160	16H7	25	25	M8	26	M6	62	5,6	28	7,5	142	18,5	81,6	63,8	-/5	-/18,3

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Knurled knobs





Material:
Black thermoplastic.
Bush and screw grade 5.8 steel.

Version:
Steel trivalent blue passivated.

Sample order:
nlm 06266-41067 (wheel cap colour colza yellow)

Note for ordering:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

Drawing reference:
Form D: tapped bush without cap
Form K: tapped bush with cap
Form E: reamed bush without cap
Form H: reamed bush with cap
Form L: external thread

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

Order No.	Form	D	D1	D2	H	H1	T
06266-1105	D	M5	40	16,5	30	13	10
06266-1106	D	M6	40	16,5	30	13	10
06266-1108	D	M8	40	16,5	30	13	14
06266-1208	D	M8	50	18	35	15	14
06266-1210	D	M10	50	18	35	15	14
06266-1310	D	M10	63	22	40	17	14
06266-1312	D	M12	63	22	40	17	18

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Knurled knobs

Order No.	Form	D	D1	D2	H	H1	T
06266-2105Δ	K	M5	40	16,5	31	13	10
06266-2106Δ	K	M6	40	16,5	31	13	10
06266-2108Δ	K	M8	40	16,5	31	13	14
06266-2208Δ	K	M8	50	18	36	15	14
06266-2210Δ	K	M10	50	18	36	15	14
06266-2310Δ	K	M10	63	22	41	17	14
06266-2312Δ	K	M12	63	22	41	17	18

Order No.	Form	D	D1	D2	H	H1	T
06266-3106	E	6	40	16,5	30	13	10
06266-3208	E	8	50	18	35	15	14
06266-3310	E	10	63	22	40	17	14

Order No.	Form	D	D1	D2	H	H1	T
06266-4106Δ	H	6	40	16,5	31	13	10
06266-4208Δ	H	8	50	18	36	15	14
06266-4310Δ	H	10	63	22	41	17	14

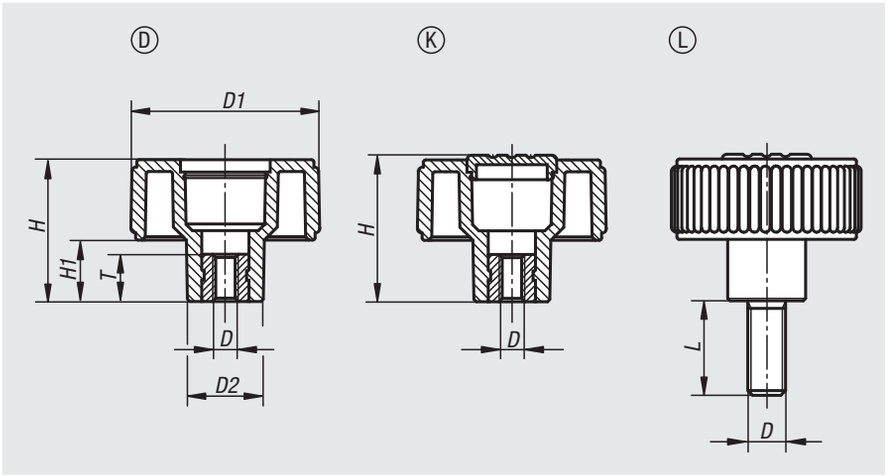
Order No.	Form	D	D1	D2	H	H1	L
06266-5105ΔX	L	M5	40	16,5	31	13	10/20/40
06266-5106ΔX	L	M6	40	16,5	31	13	10/20/40
06266-5108ΔX	L	M8	40	16,5	31	13	15/30/60
06266-5208ΔX	L	M8	50	18	36	15	15/30/60
06266-5210ΔX	L	M10	50	18	36	15	20/30/60
06266-5310ΔX	L	M10	63	22	41	17	20/30/60
06266-5312ΔX	L	M12	63	22	41	17	30/60

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Knurled knobs

metal parts stainless steel





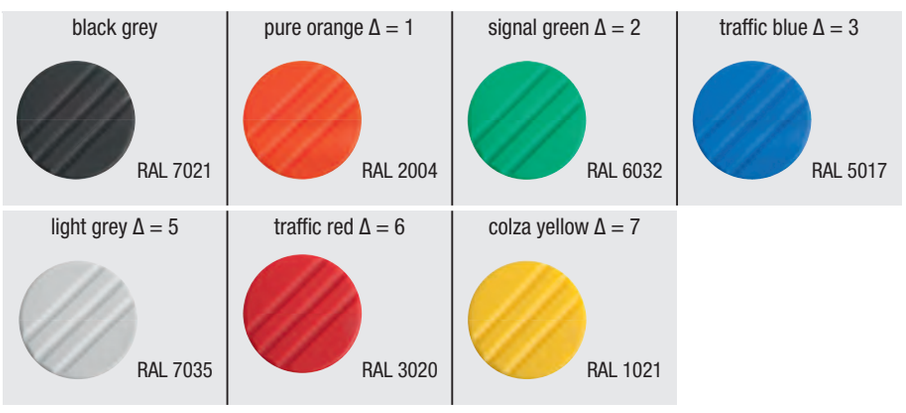
Material:
Thermoplastic, black grey.
Bush and screw stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
nlm 06267-51056X10
(cap colour traffic red; include length L)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

Drawing reference:
Form D: tapped bush without cap
Form K: tapped bush with cap
Form L: external thread



Order No.	Form	D	D1	D2	H	H1	T
06267-1105	D	M5	40	16,5	30	13	10
06267-1106	D	M6	40	16,5	30	13	10
06267-1108	D	M8	40	16,5	30	13	14
06267-1208	D	M8	50	18	35	15	14
06267-1210	D	M10	50	18	35	15	14
06267-1310	D	M10	63	22	40	17	14
06267-1312	D	M12	63	22	40	17	18

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Knurled knobs

metal parts stainless steel

Order No.	Form	D	D1	D2	H	H1	T
06267-2105Δ	K	M5	40	16,5	31	13	10
06267-2106Δ	K	M6	40	16,5	31	13	10
06267-2108Δ	K	M8	40	16,5	31	13	14
06267-2108Δ	K	M8	40	16,5	31	13	10
06267-2208Δ	K	M8	50	18	36	15	14
06267-2210Δ	K	M10	50	18	36	15	14
06267-2310Δ	K	M10	63	22	41	17	14
06267-2312Δ	K	M12	63	22	41	17	18

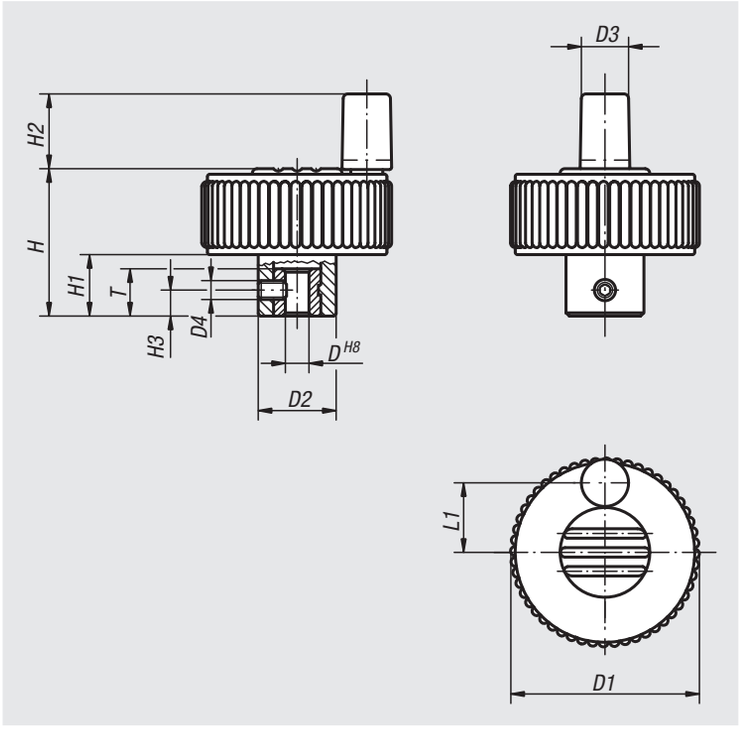
Order No.	Form	D	D1	D2	H	H1	L
06267-5105ΔX	L	M5	40	16,5	31	13	10/20
06267-5106ΔX	L	M6	40	16,5	31	13	10/20/40
06267-5108ΔX	L	M8	40	16,5	31	13	15/30/60
06267-5208ΔX	L	M8	50	18	36	15	15/30/60
06267-5210ΔX	L	M10	50	18	36	15	20/30/60
06267-5310ΔX	L	M10	63	22	41	17	20/30/60

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Knurled knobs

with grip





Material:
Black thermoplastic.
Bush grade 5.8 steel.

Version:
Steel trivalent blue passivated.

Sample order:
nlm 06268-21066 (cap colour traffic red)

Note for ordering:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

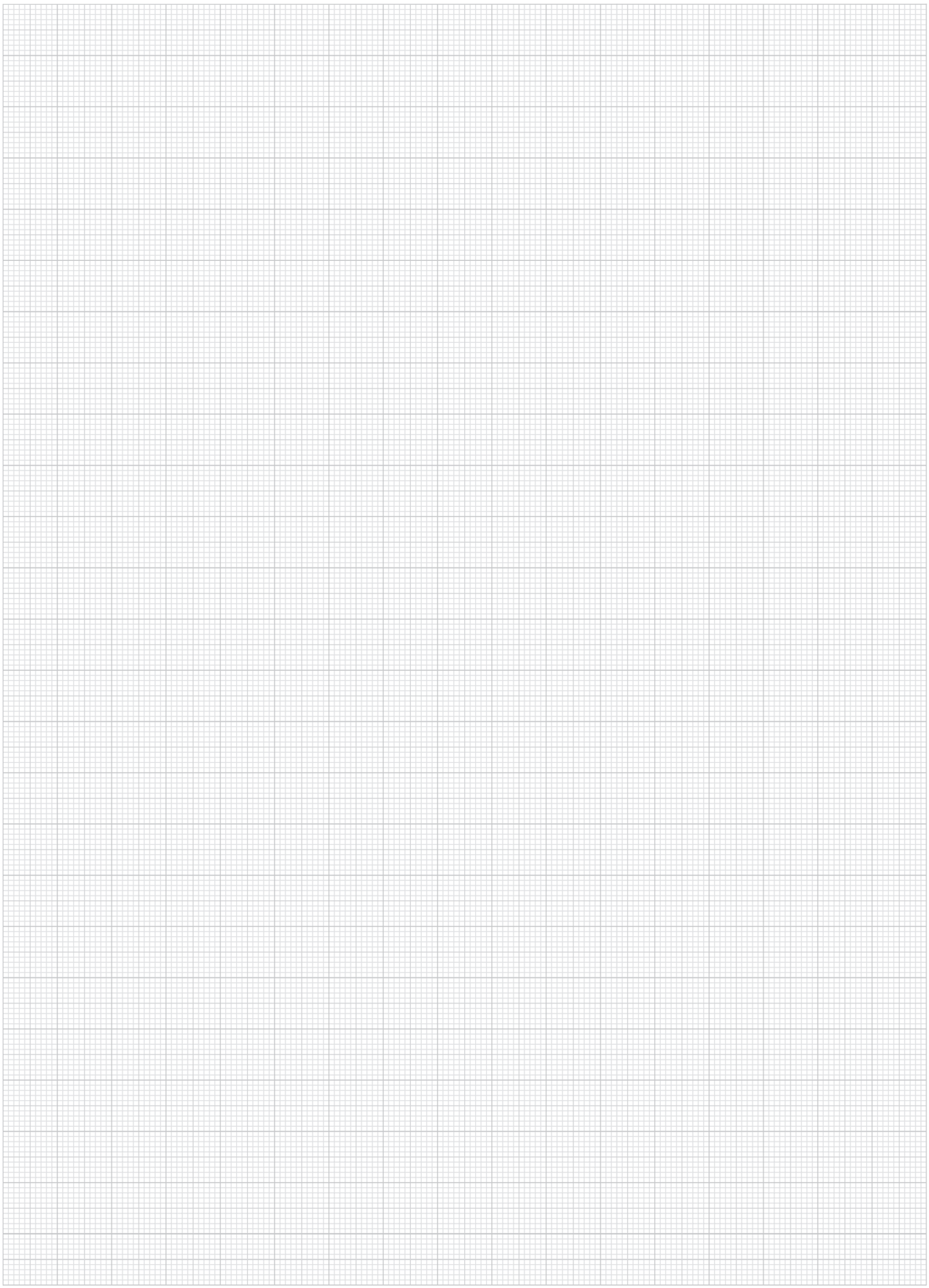
Note:
Form H: without locking grub screw
Form M: with locking grub screw

black grey	pure orange Δ = 1	signal green Δ = 2	traffic blue Δ = 3
RAL 7021	RAL 2004	RAL 6032	RAL 5017

light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7035	RAL 3020	RAL 1021

Order No.	Form	D	D1	D2	D3	D4	H	H1	H2	H3	L1	T
06268-2106Δ	H	6H8	40	16,5	10	-	31	13	16	-	15	10
06268-2206Δ	H	6H8	50	18	10	-	36	15	16	-	18,5	10
06268-2308Δ	H	8H8	63	22	10	-	41	17	16	-	25	14
06268-1106Δ	M	6H8	40	16,5	10	M4	31	13	16	5,5	15	10
06268-1206Δ	M	6H8	50	18	10	M4	36	15	16	5,5	18,5	10
06268-1308Δ	M	8H8	63	22	10	M4	41	17	16	8	25	14

Notes

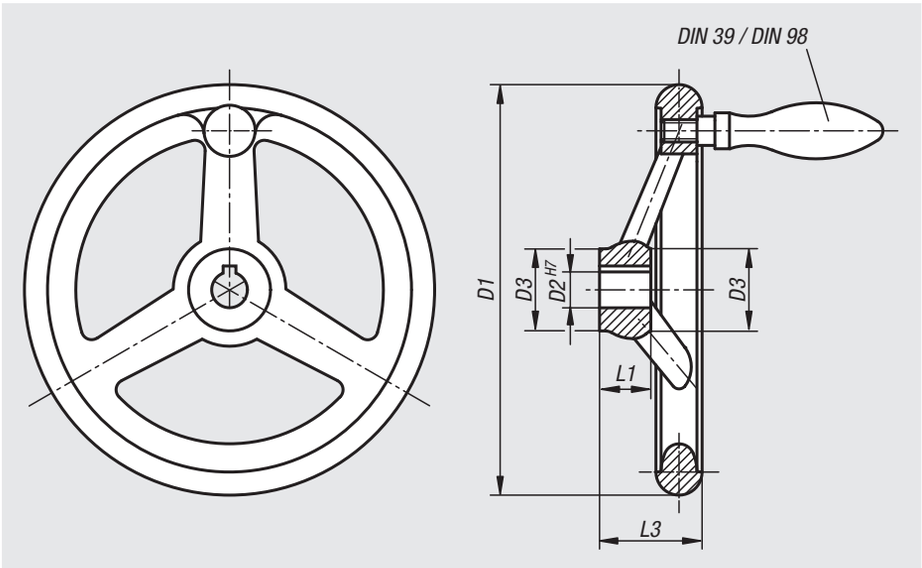


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Handwheels

DIN 950, grey cast iron





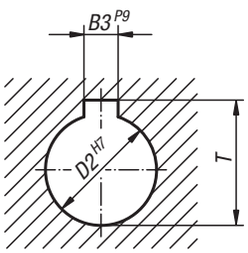
Material:
Handwheel, grey cast iron.
Grip steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06271-4080X10

On request:
Hubs with square socket or powder-coated handwheels.

DIN 6885-1



Handwheels DIN 950 grey cast iron, without grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	No.of spokes
06271-0080X10	**06271-1080X10**	80	10H7	25	16	29	-/3	-/11,4	3
06271-0080X12	**06271-1080X12**	80	12H7	25	16	29	-/4	-/13,8	3
06271-0100X10	**06271-1100X10**	100	10H7	26	17	33	-/3	-/11,4	3
06271-0100X12	**06271-1100X12**	100	12H7	26	17	33	-/4	-/13,8	3
06271-0125X12	**06271-1125X12**	125	12H7	33	18	36	-/4	-/13,8	3
06271-0125X14	**06271-1125X14**	125	14H7	33	18	36	-/5	-/16,3	3
06271-0140X14	**06271-1140X14**	140	14H7	33	19	39	-/5	-/16,3	3
06271-0140X16	**06271-1140X16**	140	16H7	33	19	39	-/5	-/18,3	3
06271-0160X14	**06271-1160X14**	160	14H7	37	20	40	-/5	-/16,3	3
06271-0160X16	**06271-1160X16**	160	16H7	37	20	40	-/5	-/18,3	3
06271-0180X16	**06271-1180X16**	180	16H7	36	22	43	-/5	-/18,3	3
06271-0180X18	**06271-1180X18**	180	18H7	36	22	43	-/6	-/20,8	3
06271-0200X18	**06271-1200X18**	200	18H7	38	24	45	-/6	-/20,8	3
06271-0200X22	**06271-1200X22**	200	22H7	38	24	45	-/6	-/24,8	3
06271-0250X22	**06271-1250X22**	250	22H7	46	28	50	-/6	-/24,8	5
06271-0250X26	**06271-1250X26**	250	26H7	46	28	50	-/8	-/29,3	5
06271-0315X26	**06271-1315X26**	315	26H7	54	33	56	-/8	-/29,3	5
06271-0315X30	**06271-1315X30**	315	30H7	54	33	56	-/8	-/33,3	5
06271-0400X30	**06271-1400X30**	400	30H7	68	38	63	-/8	-/33,3	5
06271-0400X34	**06271-1400X34**	400	34H7	68	38	63	-/10	-/37,3	5
06271-0500X34	**06271-1500X34**	500	34H7	79	45	72	-/10	-/37,3	5
06271-0500X40	**06271-1500X40**	500	40H7	79	45	72	-/12	-/43,3	5

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Handwheels

DIN 950, grey cast iron

Handwheels DIN 950 grey cast iron, with fixed grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	No.of spokes	fixed grip DIN 39 Form E
06271-2080X10	06271-3080X10	80	10H7	25	16	29	-/3	-/11,4	3	ø16 x M6 x 50
06271-2080X12	06271-3080X12	80	12H7	25	16	29	-/4	-/13,8	3	ø16 x M6 x 50
06271-2100X10	06271-3100X10	100	10H7	26	17	33	-/3	-/11,4	3	ø16 x M6 x 50
06271-2100X12	06271-3100X12	100	12H7	26	17	33	-/4	-/13,8	3	ø16 x M6 x 50
06271-2125X12	06271-3125X12	125	12H7	33	18	36	-/4	-/13,8	3	ø20 x M8 x 64
06271-2125X14	06271-3125X14	125	14H7	33	18	36	-/5	-/16,3	3	ø20 x M8 x 64
06271-2140X14	06271-3140X14	140	14H7	33	19	39	-/5	-/16,3	3	ø20 x M8 x 64
06271-2140X16	06271-3140X16	140	16H7	33	19	39	-/5	-/18,3	3	ø20 x M8 x 64
06271-2160X14	06271-3160X14	160	14H7	37	20	40	-/5	-/16,3	3	ø25 x M10 x 80
06271-2160X16	06271-3160X16	160	16H7	37	20	40	-/5	-/18,3	3	ø25 x M10 x 80
06271-2180X16	06271-3180X16	180	16H7	36	22	43	-/5	-/18,3	3	ø25 x M10 x 80
06271-2180X18	06271-3180X18	180	18H7	36	22	43	-/6	-/20,8	3	ø25 x M10 x 80
06271-2200X18	06271-3200X18	200	18H7	38	24	45	-/6	-/20,8	3	ø25 x M10 x 80
06271-2200X22	06271-3200X22	200	22H7	38	24	45	-/6	-/24,8	3	ø25 x M10 x 80
06271-2250X22	06271-3250X22	250	22H7	46	28	50	-/6	-/24,8	5	ø32 x M12 x 100
06271-2250X26	06271-3250X26	250	26H7	46	28	50	-/8	-/29,3	5	ø32 x M12 x 100
06271-2315X26	06271-3315X26	315	26H7	54	33	56	-/8	-/29,3	5	ø32 x M12 x 100
06271-2315X30	06271-3315X30	315	30H7	54	33	56	-/8	-/33,3	5	ø32 x M12 x 100
06271-2400X30	06271-3400X30	400	30H7	68	38	63	-/8	-/33,3	5	ø36 x M16 x 112
06271-2400X34	06271-3400X34	400	34H7	68	38	63	-/10	-/37,3	5	ø36 x M16 x 112
06271-2500X34	06271-3500X34	500	34H7	79	45	72	-/10	-/37,3	5	ø36 x M16 x 112
06271-2500X40	06271-3500X40	500	40H7	79	45	72	-/12	-/43,3	5	ø36 x M16 x 112

Handwheels DIN 950 grey cast iron, with revolving grip

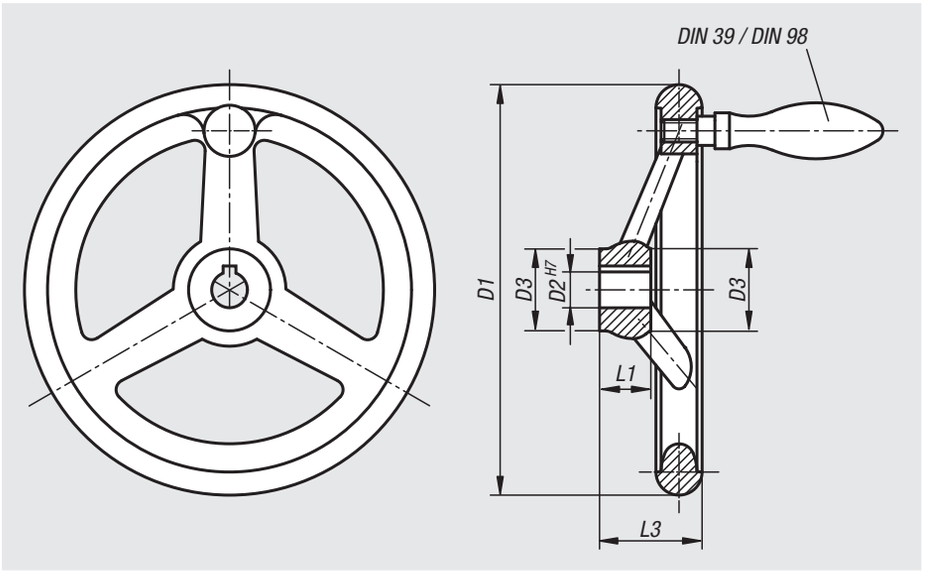
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	No.of spokes	revolving grip DIN 98 Form E
06271-4080X10	06271-5080X10	80	10H7	25	16	29	-/3	-/11,4	3	ø16 x M6 x 54.5
06271-4080X12	06271-5080X12	80	12H7	25	16	29	-/4	-/13,8	3	ø16 x M6 x 54.5
06271-4100X10	06271-5100X10	100	10H7	26	17	33	-/3	-/11,4	3	ø16 x M6 x 54.5
06271-4100X12	06271-5100X12	100	12H7	26	17	33	-/4	-/13,8	3	ø16 x M6 x 54.5
06271-4125X12	06271-5125X12	125	12H7	33	18	36	-/4	-/13,8	3	ø20 x M8 x 67
06271-4125X14	06271-5125X14	125	14H7	33	18	36	-/5	-/16,3	3	ø20 x M8 x 67
06271-4140X14	06271-5140X14	140	14H7	33	19	39	-/5	-/16,3	3	ø20 x M8 x 67
06271-4140X16	06271-5140X16	140	16H7	33	19	39	-/5	-/18,3	3	ø20 x M8 x 67
06271-4160X14	06271-5160X14	160	14H7	37	20	40	-/5	-/16,3	3	ø25 x M10 x 83
06271-4160X16	06271-5160X16	160	16H7	37	20	40	-/5	-/18,3	3	ø25 x M10 x 83
06271-4180X16	06271-5180X16	180	16H7	36	22	43	-/5	-/18,3	3	ø25 x M10 x 83
06271-4180X18	06271-5180X18	180	18H7	36	22	43	-/6	-/20,8	3	ø25 x M10 x 83
06271-4200X18	06271-5200X18	200	18H7	38	24	45	-/6	-/20,8	3	ø25 x M10 x 83
06271-4200X22	06271-5200X22	200	22H7	38	24	45	-/6	-/24,8	3	ø25 x M10 x 83
06271-4250X22	06271-5250X22	250	22H7	46	28	50	-/6	-/24,8	5	ø32 x M12 x 105,5
06271-4250X26	06271-5250X26	250	26H7	46	28	50	-/8	-/29,3	5	ø32 x M12 x 105,5
06271-4315X26	06271-5315X26	315	26H7	54	33	56	-/8	-/29,3	5	ø32 x M12 x 105,5
06271-4315X30	06271-5315X30	315	30H7	54	33	56	-/8	-/33,3	5	ø32 x M12 x 105,5
06271-4400X30	06271-5400X30	400	30H7	68	38	63	-/8	-/33,3	5	ø36 x M16 x 117
06271-4400X34	06271-5400X34	400	34H7	68	38	63	-/10	-/37,3	5	ø36 x M16 x 117
06271-4500X34	06271-5500X34	500	34H7	79	45	72	-/10	-/37,3	5	ø36 x M16 x 117
06271-4500X40	06271-5500X40	500	40H7	79	45	72	-/12	-/43,3	5	ø36 x M16 x 117

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Handwheels

DIN 950, aluminium





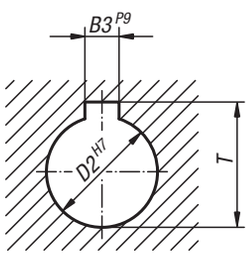
Material:
Handwheel aluminium.
Fixed grip aluminium, centre pin black oxidised steel.
Revolving grip aluminium, centre pin trivalent blue passivated steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06273-4080X10

On request:
Hubs with square socket or powder-coated handwheels.

DIN 6885-1



Handwheels DIN 950 aluminium, without grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	No.of spokes
06273-0080X10	**06273-1080X10**	80	10H7	25	16	29	-/3	-/11,4	3
06273-0080X12	**06273-1080X12**	80	12H7	25	16	29	-/4	-/13,8	3
06273-0100X10	**06273-1100X10**	100	10H7	29	17	33	-/3	-/11,4	3
06273-0100X12	**06273-1100X12**	100	12H7	29	17	33	-/4	-/13,8	3
06273-0125X12	**06273-1125X12**	125	12H7	31	18	36	-/4	-/13,8	3
06273-0125X14	**06273-1125X14**	125	14H7	31	18	36	-/5	-/16,3	3
06273-0140X14	**06273-1140X14**	140	14H7	36	19	39	-/5	-/16,3	3
06273-0140X16	**06273-1140X16**	140	16H7	36	19	39	-/5	-/18,3	3
06273-0160X14	**06273-1160X14**	160	14H7	36	20	40	-/5	-/16,3	3
06273-0160X16	**06273-1160X16**	160	16H7	36	20	40	-/5	-/18,3	3
06273-0180X16	**06273-1180X16**	180	16H7	37	22	43	-/5	-/18,3	3
06273-0180X18	**06273-1180X18**	180	18H7	37	22	43	-/6	-/20,8	3
06273-0200X18	**06273-1200X18**	200	18H7	43	24	45	-/6	-/20,8	3
06273-0200X22	**06273-1200X22**	200	22H7	43	24	45	-/6	-/24,8	3
06273-0250X22	**06273-1250X22**	250	22H7	49	28	50	-/6	-/24,8	5
06273-0250X26	**06273-1250X26**	250	26H7	49	28	50	-/8	-/29,3	5
06273-0315X26	**06273-1315X26**	315	26H7	54	33	56	-/8	-/29,3	5
06273-0315X30	**06273-1315X30**	315	30H7	54	33	56	-/8	-/33,3	5
06273-0400X30	**06273-1400X30**	400	30H7	65	38	63	-/8	-/33,3	5
06273-0400X34	**06273-1400X34**	400	34H7	65	38	63	-/10	-/37,3	5
06273-0500X34	**06273-1500X34**	500	34H7	79	45	72	-/10	-/37,3	5
06273-0500X40	**06273-1500X40**	500	40H7	79	45	72	-/12	-/43,3	5

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Handwheels

DIN 950, aluminium

Handwheels DIN 950 aluminium, with fixed grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	No.of spokes	fixed grip DIN 39 Form E
06273-2080X10	06273-3080X10	80	10H7	25	16	29	-/3	-/11,4	3	ø16 x M6 x 50
06273-2080X12	06273-3080X12	80	12H7	25	16	29	-/4	-/13,8	3	ø16 x M6 x 50
06273-2100X10	06273-3100X10	100	10H7	29	17	33	-/3	-/11,4	3	ø16 x M6 x 50
06273-2100X12	06273-3100X12	100	12H7	29	17	33	-/4	-/13,8	3	ø16 x M6 x 50
06273-2125X12	06273-3125X12	125	12H7	31	18	36	-/4	-/13,8	3	ø20 x M8 x 64
06273-2125X14	06273-3125X14	125	14H7	31	18	36	-/5	-/16,3	3	ø20 x M8 x 64
06273-2140X14	06273-3140X14	140	14H7	36	19	39	-/5	-/16,3	3	ø20 x M8 x 64
06273-2140X16	06273-3140X16	140	16H7	36	19	39	-/5	-/18,3	3	ø20 x M8 x 64
06273-2160X14	06273-3160X14	160	14H7	36	20	40	-/5	-/16,3	3	ø25 x M10 x 80
06273-2160X16	06273-3160X16	160	16H7	36	20	40	-/5	-/18,3	3	ø25 x M10 x 80
06273-2180X16	06273-3180X16	180	16H7	37	22	43	-/5	-/18,3	3	ø25 x M10 x 80
06273-2180X18	06273-3180X18	180	18H7	37	22	43	-/6	-/20,8	3	ø25 x M10 x 80
06273-2200X18	06273-3200X18	200	18H7	43	24	45	-/6	-/20,8	3	ø25 x M10 x 80
06273-2200X22	06273-3200X22	200	22H7	43	24	45	-/6	-/24,8	3	ø25 x M10 x 80
06273-2250X22	06273-3250X22	250	22H7	49	28	50	-/6	-/24,8	5	ø32 x M12 x 100
06273-2250X26	06273-3250X26	250	26H7	49	28	50	-/8	-/29,3	5	ø32 x M12 x 100
06273-2315X26	06273-3315X26	315	26H7	54	33	56	-/8	-/29,3	5	ø32 x M12 x 100
06273-2315X30	06273-3315X30	315	30H7	54	33	56	-/8	-/33,3	5	ø32 x M12 x 100
06273-2400X30	06273-3400X30	400	30H7	65	38	63	-/8	-/33,3	5	ø36 x M16 x 112
06273-2400X34	06273-3400X34	400	34H7	65	38	63	-/10	-/37,3	5	ø36 x M16 x 112
06273-2500X34	06273-3500X34	500	34H7	79	45	72	-/10	-/37,3	5	ø36 x M16 x 112
06273-2500X40	06273-3500X40	500	40H7	79	45	72	-/12	-/43,3	5	ø36 x M16 x 112

Handwheels DIN 950 aluminium, with revolving grip

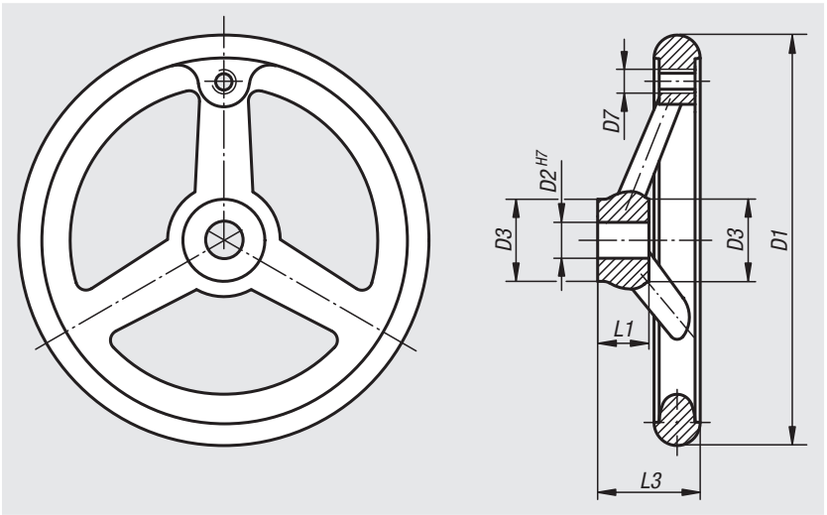
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	No.of spokes	revolving grip DIN 98 Form E
06273-4080X10	06273-5080X10	80	10H7	25	16	29	-/3	-/11,4	3	ø16 x M6 x 54.5
06273-4080X12	06273-5080X12	80	12H7	25	16	29	-/4	-/13,8	3	ø16 x M6 x 54.5
06273-4100X10	06273-5100X10	100	10H7	29	17	33	-/3	-/11,4	3	ø16 x M6 x 54.5
06273-4100X12	06273-5100X12	100	12H7	29	17	33	-/4	-/13,8	3	ø16 x M6 x 54.5
06273-4125X12	06273-5125X12	125	12H7	31	18	36	-/4	-/13,8	3	ø20 x M8 x 67
06273-4125X14	06273-5125X14	125	14H7	31	18	36	-/5	-/16,3	3	ø20 x M8 x 67
06273-4140X14	06273-5140X14	140	14H7	36	19	39	-/5	-/16,3	3	ø20 x M8 x 67
06273-4140X16	06273-5140X16	140	16H7	36	19	39	-/5	-/18,3	3	ø20 x M8 x 67
06273-4160X14	06273-5160X14	160	14H7	36	20	40	-/5	-/16,3	3	ø25 x M10 x 83
06273-4160X16	06273-5160X16	160	16H7	36	20	40	-/5	-/18,3	3	ø25 x M10 x 83
06273-4180X16	06273-5180X16	180	16H7	37	22	43	-/5	-/18,3	3	ø25 x M10 x 83
06273-4180X18	06273-5180X18	180	18H7	37	22	43	-/6	-/20,8	3	ø25 x M10 x 83
06273-4200X18	06273-5200X18	200	18H7	43	24	45	-/6	-/20,8	3	ø25 x M10 x 83
06273-4200X22	06273-5200X22	200	22H7	43	24	45	-/6	-/24,8	3	ø25 x M10 x 83
06273-4250X22	06273-5250X22	250	22H7	49	28	50	-/6	-/24,8	5	ø32 x M12 x 105,5
06273-4250X26	06273-5250X26	250	26H7	49	28	50	-/8	-/29,3	5	ø32 x M12 x 105,5
06273-4315X26	06273-5315X26	315	26H7	54	33	56	-/8	-/29,3	5	ø32 x M12 x 105,5
06273-4315X30	06273-5315X30	315	30H7	54	33	56	-/8	-/33,3	5	ø32 x M12 x 105,5
06273-4400X30	06273-5400X30	400	30H7	65	38	63	-/8	-/33,3	5	ø36 x M16 x 117
06273-4400X34	06273-5400X34	400	34H7	65	38	63	-/10	-/37,3	5	ø36 x M16 x 117
06273-4500X34	06273-5500X34	500	34H7	79	45	72	-/10	-/37,3	5	ø36 x M16 x 117
06273-4500X40	06273-5500X40	500	40H7	79	45	72	-/12	-/43,3	5	ø36 x M16 x 117

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Handwheels

DIN 950, stainless steel



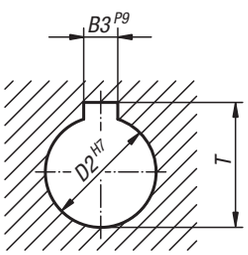


Material:
Stainless steel 1.4401.

Version:
Wheel rim turned
and polished

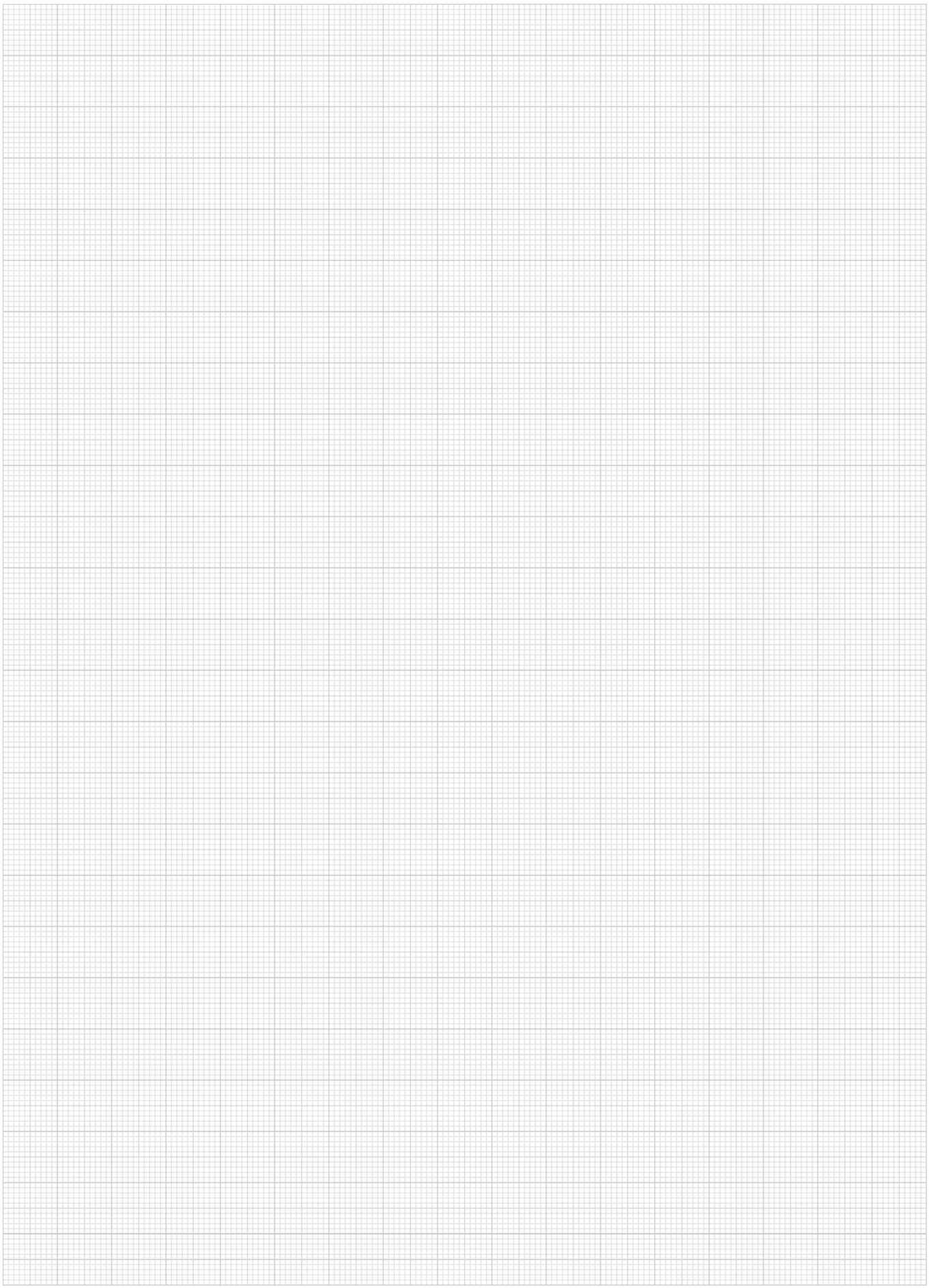
Sample order:
nlm 06274-0100X10

DIN 6885-1



Order No.	Version 1	D1	D2	D3	D7	L1	L3	B3	T	No. of spokes
06274-0100X10	reamed hole	100	10H7	26	M6	17	33	-	-	3
06274-0125X12	reamed hole	125	12H7	28	M8	18	36	-	-	3
06274-0160X16	reamed hole	160	16H7	32	M10	20	40	-	-	3
06274-0200X18	reamed hole	200	18H7	38	M10	24	45	-	-	3
06274-1100X10	reamed hole with slot	100	10H7	26	M6	17	33	3	11,4	3
06274-1125X12	reamed hole with slot	125	12H7	28	M8	18	36	4	13,8	3
06274-1160X16	reamed hole with slot	160	16H7	32	M10	20	40	5	18,3	3
06274-1200X18	reamed hole with slot	200	18H7	38	M10	24	45	6	20,8	3

Notes

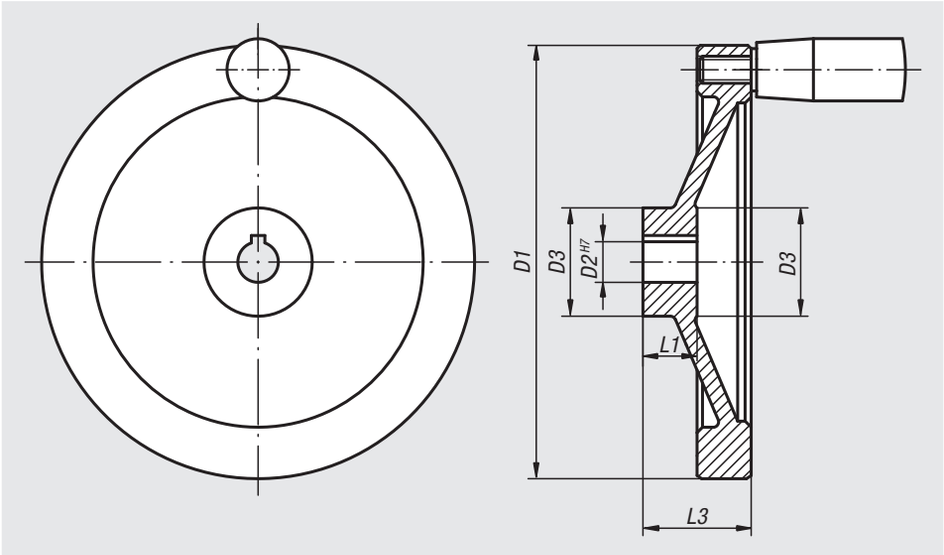


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Handwheels disc

aluminium





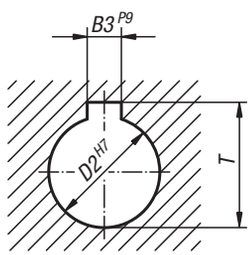
Material:
Disc handwheel aluminium.
Cylinder grip black thermoset PF 31-DIN 7708.
Hub electro zinc-plated steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06275-4080X10

On request:
Hubs with square socket or powder-coated handwheels.

DIN 6885-1



Handwheels disc, aluminium, without grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T
06275-0080X10	**06275-1080X10**	80	10H7	26	16	31	-/3	-/11,4
06275-0080X12	**06275-1080X12**	80	12H7	26	16	31	-/4	-/13,8
06275-0100X10	**06275-1100X10**	100	10H7	31	17	34	-/3	-/11,4
06275-0100X12	**06275-1100X12**	100	12H7	31	17	34	-/4	-/13,8
06275-0125X12	**06275-1125X12**	125	12H7	30	18	37	-/4	-/13,8
06275-0125X14	**06275-1125X14**	125	14H7	30	18	37	-/5	-/16,3
06275-0140X14	**06275-1140X14**	140	14H7	34	19	34	-/5	-/16,3
06275-0140X15	**06275-1140X15**	140	15H7	34	19	34	-/5	-/17,3
06275-0160X15	**06275-1160X15**	160	15H7	40	20	40	-/5	-/17,3
06275-0160X16	**06275-1160X16**	160	16H7	40	20	40	-/5	-/18,3
06275-0200X18	**06275-1200X18**	200	18H7	50	24	46	-/6	-/20,8
06275-0200X20	**06275-1200X20**	200	20H7	50	24	46	-/6	-/22,8
06275-0250X22	**06275-1250X22**	250	22H7	50	28	49	-/6	-/24,8
06275-0250X24	**06275-1250X24**	250	24H7	50	28	49	-/8	-/27,3

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Handwheels disc

aluminium

Handwheels disc, aluminium, with fixed cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Fixed cylinder grip
06275-2080X10	06275-3080X10	80	10H7	26	16	31	-/3	-/11,4	ø18 x M6 x 40
06275-2080X12	06275-3080X12	80	12H7	26	16	31	-/4	-/13,8	ø18 x M6 x 40
06275-2100X10	06275-3100X10	100	10H7	31	17	34	-/3	-/11,4	ø18 x M6 x 40
06275-2100X12	06275-3100X12	100	12H7	31	17	34	-/4	-/13,8	ø18 x M6 x 40
06275-2125X12	06275-3125X12	125	12H7	30	18	37	-/4	-/13,8	ø21 x M8 x 50
06275-2125X14	06275-3125X14	125	14H7	30	18	37	-/5	-/16,3	ø21 x M8 x 50
06275-2140X14	06275-3140X14	140	14H7	34	19	34	-/5	-/16,3	ø21 x M8 x 50
06275-2140X15	06275-3140X15	140	15H7	34	19	34	-/5	-/17,3	ø21 x M8 x 50
06275-2160X15	06275-3160X15	160	15H7	40	20	40	-/5	-/17,3	ø26 x M10 x 80
06275-2160X16	06275-3160X16	160	16H7	40	20	40	-/5	-/18,3	ø26 x M10 x 80
06275-2200X18	06275-3200X18	200	18H7	50	24	46	-/6	-/20,8	ø26 x M10 x 80
06275-2200X20	06275-3200X20	200	20H7	50	24	46	-/6	-/22,8	ø26 x M10 x 80
06275-2250X22	06275-3250X22	250	22H7	50	28	49	-/6	-/24,8	ø28 x M12 x 90
06275-2250X24	06275-3250X24	250	24H7	50	28	49	-/8	-/27,3	ø28 x M12 x 90

Handwheels disc, aluminium, with revolving cylinder grip

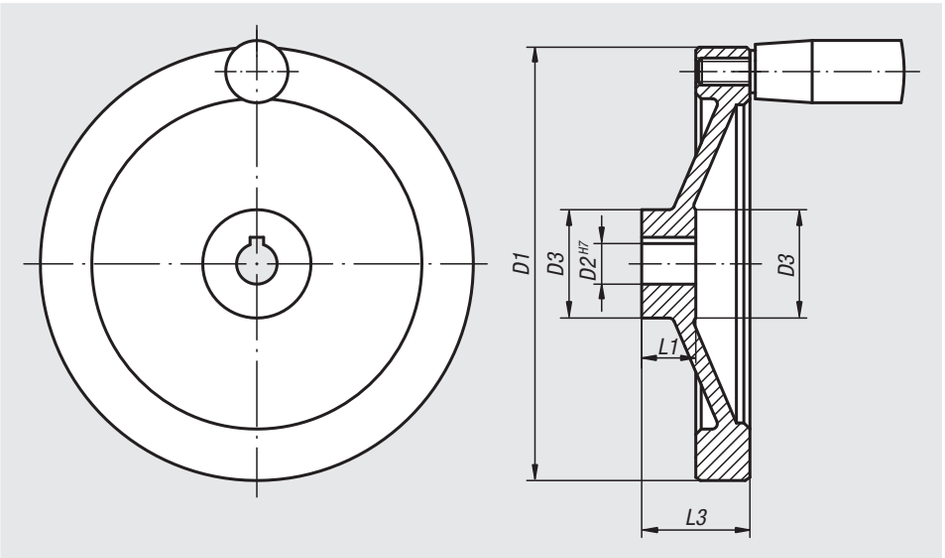
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Revolving cylinder grip
06275-4080X10	06275-5080X10	80	10H7	26	16	31	-/3	-/11,4	ø18 x M6 x 40
06275-4080X12	06275-5080X12	80	12H7	26	16	31	-/4	-/13,8	ø18 x M6 x 40
06275-4100X10	06275-5100X10	100	10H7	31	17	34	-/3	-/11,4	ø18 x M6 x 40
06275-4100X12	06275-5100X12	100	12H7	31	17	34	-/4	-/13,8	ø18 x M6 x 40
06275-4125X12	06275-5125X12	125	12H7	30	18	37	-/4	-/13,8	ø22 x M8 x 56
06275-4125X14	06275-5125X14	125	14H7	30	18	37	-/5	-/16,3	ø22 x M8 x 56
06275-4140X14	06275-5140X14	140	14H7	34	19	34	-/5	-/16,3	ø22 x M8 x 56
06275-4140X15	06275-5140X15	140	15H7	34	19	34	-/5	-/17,3	ø22 x M8 x 56
06275-4160X15	06275-5160X15	160	15H7	40	20	40	-/5	-/17,3	ø26 x M10 x 80
06275-4160X16	06275-5160X16	160	16H7	40	20	40	-/5	-/18,3	ø26 x M10 x 80
06275-4200X18	06275-5200X18	200	18H7	50	24	46	-/6	-/20,8	ø26 x M10 x 80
06275-4200X20	06275-5200X20	200	20H7	50	24	46	-/6	-/22,8	ø26 x M10 x 80
06275-4250X22	06275-5250X22	250	22H7	50	28	49	-/6	-/24,8	ø31 x M12 x 102
06275-4250X24	06275-5250X24	250	24H7	50	28	49	-/8	-/27,3	ø31 x M12 x 102

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Handwheels disc

aluminium





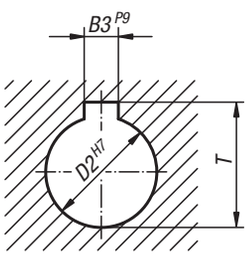
Material:
Disc handwheel aluminium.
Cylinder grip black thermoset PF 31-DIN 7708.
Hub electro zinc-plated steel.

Version:
Black, powder-coated.
Wheel rim turned.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06275-01080x10

On request:
Hubs with square socket.

DIN 6885-1



Handwheels disc, aluminium, without grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T
06275-01080X10	**06275-11080X10**	80	10H7	26	16	31	-/3	-/11,4
06275-01080X12	**06275-11080X12**	80	12H7	26	16	31	-/4	-/13,8
06275-01100X10	**06275-11100X10**	100	10H7	31	17	34	-/3	-/11,4
06275-01100X12	**06275-11100X12**	100	12H7	31	17	34	-/4	-/13,8
06275-01125X12	**06275-11125X12**	125	12H7	30	18	37	-/4	-/13,8
06275-01125X14	**06275-11125X14**	125	14H7	30	18	37	-/5	-/16,3
06275-01140X14	**06275-11140X14**	140	14H7	34	19	34	-/5	-/16,3
06275-01140X15	**06275-11140X15**	140	15H7	34	19	34	-/5	-/17,3
06275-01160X15	**06275-11160X15**	160	15H7	40	20	40	-/5	-/17,3
06275-01160X16	**06275-11160X16**	160	16H7	40	20	40	-/5	-/18,3
06275-01200X18	**06275-11200X18**	200	18H7	50	24	46	-/6	-/20,8
06275-01200X20	**06275-11200X20**	200	20H7	50	24	46	-/6	-/22,8
06275-01250X22	**06275-11250X22**	250	22H7	50	28	49	-/6	-/24,8
06275-01250X24	**06275-11250X24**	250	24H7	50	28	49	-/8	-/27,3

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Handwheels disc

aluminium

Handwheels disc, aluminium, with fixed cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Fixed cylinder grip
06275-21080X10	06275-31080X10	80	10H7	26	16	31	-/3	-/11,4	ø18 x M6 x 40
06275-21080X12	06275-31080X12	80	12H7	26	16	31	-/4	-/13,8	ø18 x M6 x 40
06275-21100X10	06275-31100X10	100	10H7	31	17	34	-/3	-/11,4	ø18 x M6 x 40
06275-21100X12	06275-31100X12	100	12H7	31	17	34	-/4	-/13,8	ø18 x M6 x 40
06275-21125X12	06275-31125X12	125	12H7	30	18	37	-/4	-/13,8	ø21 x M8 x 50
06275-21125X14	06275-31125X14	125	14H7	30	18	37	-/5	-/16,3	ø21 x M8 x 50
06275-21140X14	06275-31140X14	140	14H7	34	19	34	-/5	-/16,3	ø21 x M8 x 50
06275-21140X15	06275-31140X15	140	15H7	34	19	34	-/5	-/17,3	ø21 x M8 x 50
06275-21160X15	06275-31160X15	160	15H7	40	20	40	-/5	-/17,3	ø26 x M10 x 80
06275-21160X16	06275-31160X16	160	16H7	40	20	40	-/5	-/18,3	ø26 x M10 x 80
06275-21200X18	06275-31200X18	200	18H7	50	24	46	-/6	-/20,8	ø26 x M10 x 80
06275-21200X20	06275-31200X20	200	20H7	50	24	46	-/6	-/22,8	ø26 x M10 x 80
06275-21250X22	06275-31250X22	250	22H7	50	28	49	-/6	-/24,8	ø28 x M12 x 90
06275-21250X24	06275-31250X24	250	24H7	50	28	49	-/8	-/27,3	ø28 x M12 x 90

Handwheels disc, aluminium, with revolving cylinder grip

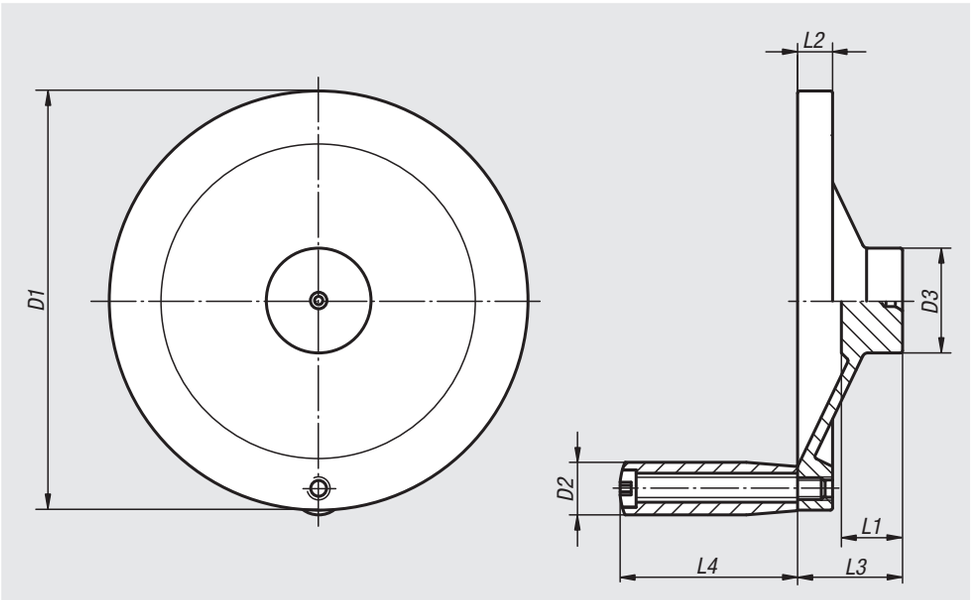
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Revolving cylinder grip
06275-41080X10	06275-51080X10	80	10H7	26	16	31	-/3	-/11,4	ø18 x M6 x 40
06275-41080X12	06275-51080X12	80	12H7	26	16	31	-/4	-/13,8	ø18 x M6 x 40
06275-41100X10	06275-51100X10	100	10H7	31	17	34	-/3	-/11,4	ø18 x M6 x 40
06275-41100X12	06275-51100X12	100	12H7	31	17	34	-/4	-/13,8	ø18 x M6 x 40
06275-41125X12	06275-51125X12	125	12H7	30	18	37	-/4	-/13,8	ø22 x M8 x 56
06275-41125X14	06275-51125X14	125	14H7	30	18	37	-/5	-/16,3	ø22 x M8 x 56
06275-41140X14	06275-51140X14	140	14H7	34	19	34	-/5	-/16,3	ø22 x M8 x 56
06275-41140X15	06275-51140X15	140	15H7	34	19	34	-/5	-/17,3	ø22 x M8 x 56
06275-41160X15	06275-51160X15	160	15H7	40	20	40	-/5	-/17,3	ø26 x M10 x 80
06275-41160X16	06275-51160X16	160	16H7	40	20	40	-/5	-/18,3	ø26 x M10 x 80
06275-41200X18	06275-51200X18	200	18H7	50	24	46	-/6	-/20,8	ø26 x M10 x 80
06275-41200X20	06275-51200X20	200	20H7	50	24	46	-/6	-/22,8	ø26 x M10 x 80
06275-41250X22	06275-51250X22	250	22H7	50	28	49	-/6	-/24,8	ø31 x M12 x 102
06275-41250X24	06275-51250X24	250	24H7	50	28	49	-/8	-/27,3	ø31 x M12 x 102

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Handwheels disc stainless steel

with revolving grip





Material:
Stainless steel 1.4301.

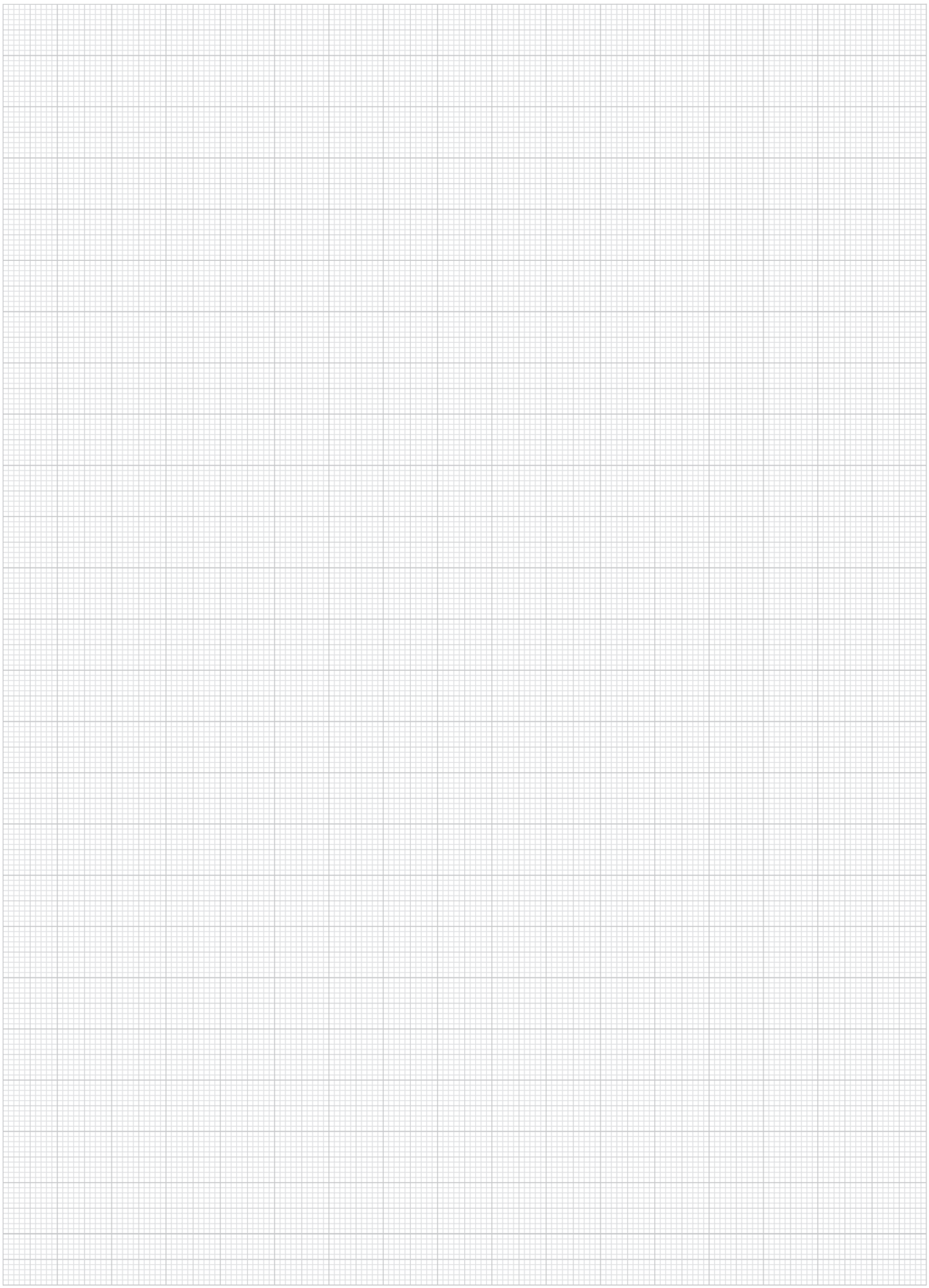
Version:
Turned, bright.
Hub is centre bored.

Sample order:
nlm 06276-01-4076X00

On request:
Stainless steel 1.4401.
Stainless steel 1.4404.
Stainless steel 1.4571.

Order No.	D1	D2	D3	L1	L2	L3	L4
06276-01-4076X00	76,2	9,91	22,1	17,02	6,1	27,9	37,9
06276-01-4101X00	101,6	11,94	25,9	18,03	7,87	31,7	39,88
06276-01-4152X00	152,4	19,05	38,1	22,1	12,7	38,1	63,5
06276-01-4203X00	203,2	22,1	45,7	24,13	14,22	45,7	76,2
06276-01-4254X00	254	22,1	50,8	26,67	15,75	50,8	76,2

Notes

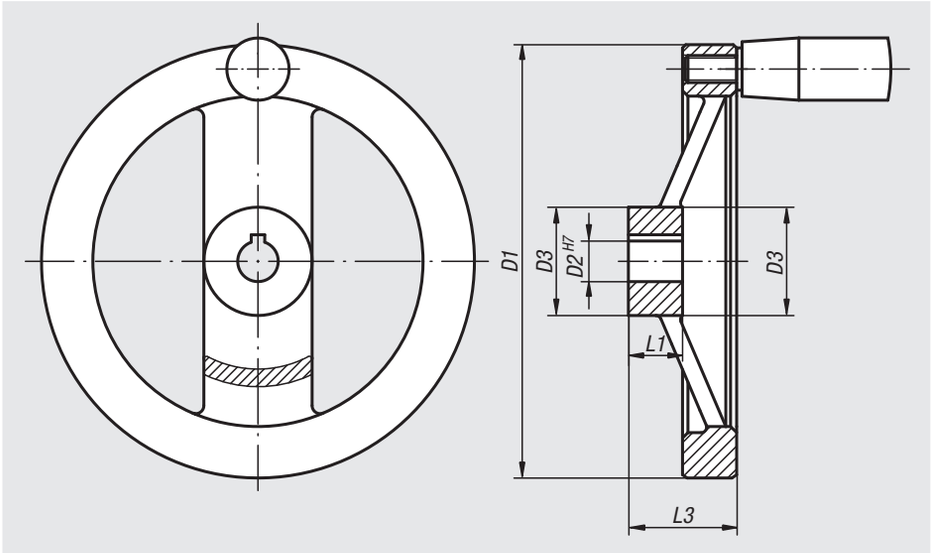


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Handwheels 2-spoke

aluminium, flat wheel rim





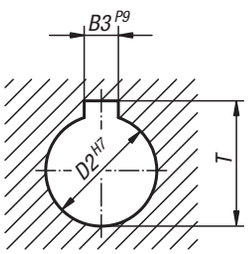
Material:
Handwheels aluminium.
Cylinder grip black thermoset PF 31-DIN 7708, centre pin electro zinc-plated steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06277-4080X10

On request:
Hubs with square socket or powder-coated handwheels.

DIN 6885-1



Handwheels 2-spoke, aluminium, flat wheel rim, without grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T
06277-0080X10	**06277-1080X10**	80	10H7	24	16	28	-/3	-/11,4
06277-0080X12	**06277-1080X12**	80	12H7	24	16	28	-/4	-/13,8
06277-0100X10	**06277-1100X10**	100	10H7	26	17	33	-/3	-/11,4
06277-0100X12	**06277-1100X12**	100	12H7	26	17	33	-/4	-/13,8
06277-0125X12	**06277-1125X12**	125	12H7	31	18	33,5	-/4	-/13,8
06277-0125X14	**06277-1125X14**	125	14H7	31	18	33,5	-/5	-/16,3
06277-0160X14	**06277-1160X14**	160	14H7	40	20	39	-/5	-/16,3
06277-0160X16	**06277-1160X16**	160	16H7	40	20	39	-/5	-/18,3
06277-0200X18	**06277-1200X18**	200	18H7	42	24	45	-/6	-/20,8
06277-0200X20	**06277-1200X20**	200	20H7	42	24	45	-/6	-/22,8
06277-0250X22	**06277-1250X22**	250	22H7	48	28	51	-/6	-/24,8
06277-0250X26	**06277-1250X26**	250	26H7	48	28	51	-/8	-/29,3

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Handwheels 2-spoke

aluminium, flat wheel rim

Handwheels 2-spoke, aluminium, flat wheel rim, with fixed cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Fixed cylinder grip
06277-2080X10	**06277-3080X10**	80	10H7	24	16	28	-/3	-/11,4	ø18 x M6 x 40
06277-2080X12	**06277-3080X12**	80	12H7	24	16	28	-/4	-/13,8	ø18 x M6 x 40
06277-2100X10	**06277-3100X10**	100	10H7	26	17	33	-/3	-/11,4	ø18 x M6 x 40
06277-2100X12	**06277-3100X12**	100	12H7	26	17	33	-/4	-/13,8	ø18 x M6 x 40
06277-2125X12	**06277-3125X12**	125	12H7	31	18	33,5	-/4	-/13,8	ø21 x M8 x 50
06277-2125X14	**06277-3125X14**	125	14H7	31	18	33,5	-/5	-/16,3	ø21 x M8 x 50
06277-2160X14	**06277-3160X14**	160	14H7	40	20	39	-/5	-/16,3	ø26 x M10 x 80
06277-2160X16	**06277-3160X16**	160	16H7	40	20	39	-/5	-/18,3	ø26 x M10 x 80
06277-2200X18	**06277-3200X18**	200	18H7	42	24	45	-/6	-/20,8	ø26 x M10 x 80
06277-2200X20	**06277-3200X20**	200	20H7	42	24	45	-/6	-/22,8	ø26 x M10 x 80
06277-2250X22	**06277-3250X22**	250	22H7	48	28	51	-/6	-/24,8	ø28 x M12 x 90
06277-2250X26	**06277-3250X26**	250	26H7	48	28	51	-/8	-/29,3	ø28 x M12 x 90

Handwheels 2-spoke, aluminium, flat wheel rim, with revolving cylinder grip

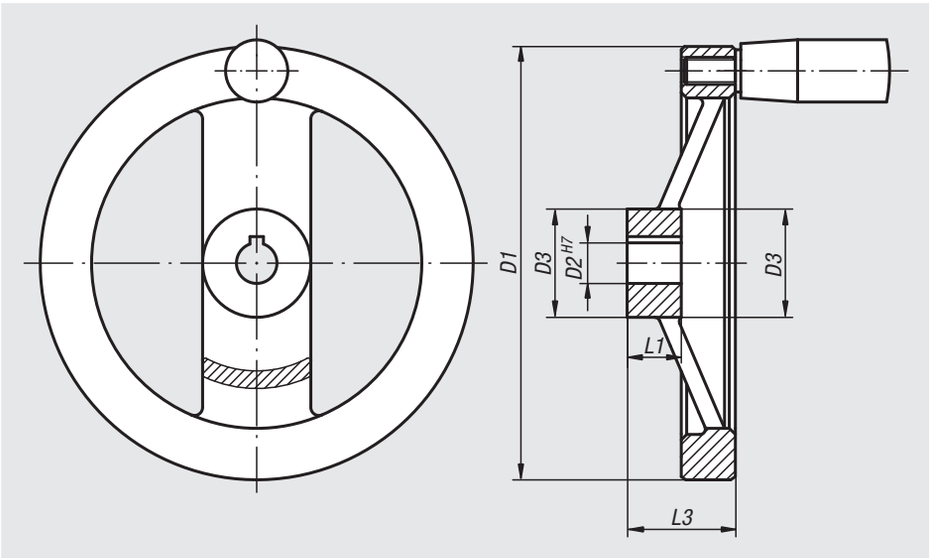
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Revolving cylinder grip
06277-4080X10	**06277-5080X10**	80	10H7	24	16	28	-/3	-/11,4	ø18 x M6 x 40
06277-4080X12	**06277-5080X12**	80	12H7	24	16	28	-/4	-/13,8	ø18 x M6 x 40
06277-4100X10	**06277-5100X10**	100	10H7	26	17	33	-/3	-/11,4	ø18 x M6 x 40
06277-4100X12	**06277-5100X12**	100	12H7	26	17	33	-/4	-/13,8	ø18 x M6 x 40
06277-4125X12	**06277-5125X12**	125	12H7	31	18	33,5	-/4	-/13,8	ø22 x M8 x 56
06277-4125X14	**06277-5125X14**	125	14H7	31	18	33,5	-/5	-/16,3	ø22 x M8 x 56
06277-4160X14	**06277-5160X14**	160	14H7	40	20	39	-/5	-/16,3	ø26 x M10 x 80
06277-4160X16	**06277-5160X16**	160	16H7	40	20	39	-/5	-/18,3	ø26 x M10 x 80
06277-4200X18	**06277-5200X18**	200	18H7	42	24	45	-/6	-/20,8	ø26 x M10 x 80
06277-4200X20	**06277-5200X20**	200	20H7	42	24	45	-/6	-/22,8	ø26 x M10 x 80
06277-4250X22	**06277-5250X22**	250	22H7	48	28	51	-/6	-/24,8	ø31 x M12 x 102
06277-4250X26	**06277-5250X26**	250	26H7	48	28	51	-/8	-/29,3	ø31 x M12 x 102

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Handwheels 2-spoke

flat rim, aluminium





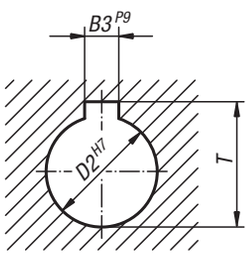
Material:
Handwheels aluminium.
Cylinder grip black thermoset PF 31-DIN 7708, centre pin electro zinc-plated steel.

Version:
Black, powder-coated.
Wheel rim turned.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06277-01080X10

On request:
Hubs with square socket.

DIN 6885-1



Handwheels 2-spoke, aluminium, flat wheel rim, without grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T
06277-01080X10	**06277-11080X10**	80	10H7	24	16	28	-/3	-/11,4
06277-01080X12	**06277-11080X12**	80	12H7	24	16	28	-/4	-/13,8
06277-01100X10	**06277-11100X10**	100	10H7	26	17	33	-/3	-/11,4
06277-01100X12	**06277-11100X12**	100	12H7	26	17	33	-/4	-/13,8
06277-01125X12	**06277-11125X12**	125	12H7	31	18	33,5	-/4	-/13,8
06277-01125X14	**06277-11125X14**	125	14H7	31	18	33,5	-/5	-/16,3
06277-01160X14	**06277-11160X14**	160	14H7	40	20	39	-/5	-/16,3
06277-01160X16	**06277-11160X16**	160	16H7	40	20	39	-/5	-/18,3
06277-01200X18	**06277-11200X18**	200	18H7	42	24	45	-/6	-/20,8
06277-01200X20	**06277-11200X20**	200	20H7	42	24	45	-/6	-/22,8
06277-01250X22	**06277-11250X22**	250	22H7	48	28	51	-/6	-/24,8
06277-01250X26	**06277-11250X26**	250	26H7	48	28	51	-/8	-/29,3

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Handwheels 2-spoke

flat rim, aluminium

Handwheels 2-spoke, aluminium, flat wheel rim, with fixed cylinder grip

Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Fixed cylinder grip
06277-21080X10	**06277-31080X10**	80	10H7	24	16	28	-/3	-/11,4	ø18 x M6 x 40
06277-21080X12	**06277-31080X12**	80	12H7	24	16	28	-/4	-/13,8	ø18 x M6 x 40
06277-21100X10	**06277-31100X10**	100	10H7	26	17	33	-/3	-/11,4	ø18 x M6 x 40
06277-21100X12	**06277-31100X12**	100	12H7	26	17	33	-/4	-/13,8	ø18 x M6 x 40
06277-21125X12	**06277-31125X12**	125	12H7	31	18	33,5	-/4	-/13,8	ø21 x M8 x 50
06277-21125X14	**06277-31125X14**	125	14H7	31	18	33,5	-/5	-/16,3	ø21 x M8 x 50
06277-21160X14	**06277-31160X14**	160	14H7	40	20	39	-/5	-/16,3	ø26 x M10 x 80
06277-21160X16	**06277-31160X16**	160	16H7	40	20	39	-/5	-/18,3	ø26 x M10 x 80
06277-21200X18	**06277-31200X18**	200	18H7	42	24	45	-/6	-/20,8	ø26 x M10 x 80
06277-21200X20	**06277-31200X20**	200	20H7	42	24	45	-/6	-/22,8	ø26 x M10 x 80
06277-21250X22	**06277-31250X22**	250	22H7	48	28	51	-/6	-/24,8	ø28 x M12 x 90
06277-21250X26	**06277-31250X26**	250	26H7	48	28	51	-/8	-/29,3	ø28 x M12 x 90

Handwheels 2-spoke, aluminium, flat wheel rim, with revolving cylinder grip

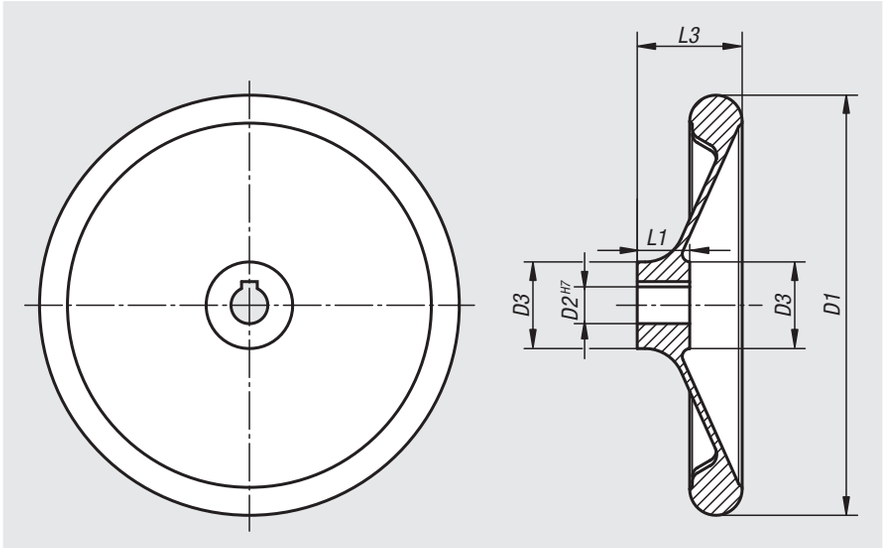
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T	Revolving cylinder grip
06277-41080X10	**06277-51080X10**	80	10H7	24	16	28	-/3	-/11,4	ø18 x M6 x 40
06277-41080X12	**06277-51080X12**	80	12H7	24	16	28	-/4	-/13,8	ø18 x M6 x 40
06277-41100X10	**06277-51100X10**	100	10H7	26	17	33	-/3	-/11,4	ø18 x M6 x 40
06277-41100X12	**06277-51100X12**	100	12H7	26	17	33	-/4	-/13,8	ø18 x M6 x 40
06277-41125X12	**06277-51125X12**	125	12H7	31	18	33,5	-/4	-/13,8	ø22 x M8 x 56
06277-41125X14	**06277-51125X14**	125	14H7	31	18	33,5	-/5	-/16,3	ø22 x M8 x 56
06277-41160X14	**06277-51160X14**	160	14H7	40	20	39	-/5	-/16,3	ø26 x M10 x 80
06277-41160X16	**06277-51160X16**	160	16H7	40	20	39	-/5	-/18,3	ø26 x M10 x 80
06277-41200X18	**06277-51200X18**	200	18H7	42	24	45	-/6	-/20,8	ø26 x M10 x 80
06277-41200X20	**06277-51200X20**	200	20H7	42	24	45	-/6	-/22,8	ø26 x M10 x 80
06277-41250X22	**06277-51250X22**	250	22H7	48	28	51	-/6	-/24,8	ø31 x M12 x 102
06277-41250X26	**06277-51250X26**	250	26H7	48	28	51	-/8	-/29,3	ø31 x M12 x 102

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Handwheels disc

similar to DIN 950, aluminium





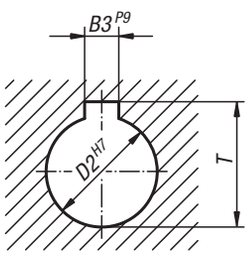
Material:
Handwheel aluminium.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
nlm 06279-0080X10

On request:
Hubs with square socket or powder-coated handwheels.

DIN 6885-1



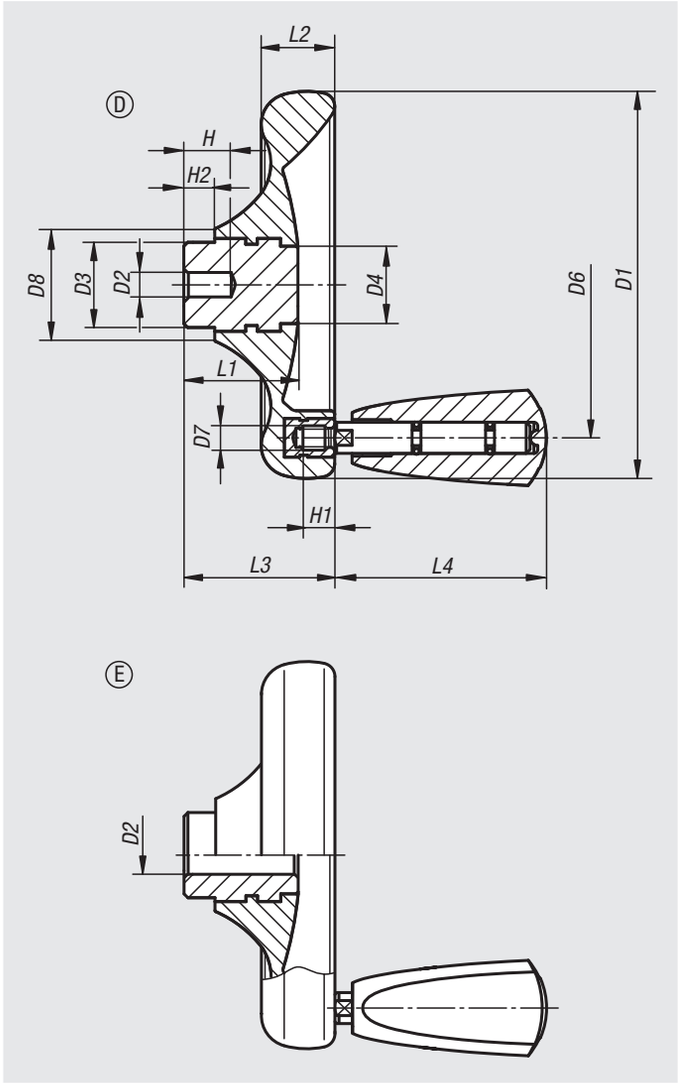
Order No. reamed hole	Order No. reamed hole with slot	D1	D2	D3	L1	L3	B3	T
06279-0080X10	**06279-1080X10**	80	10H7	25	16	30	-/3	-/11,4
06279-0080X12	**06279-1080X12**	80	12H7	25	16	30	-/4	-/13,8
06279-0100X10	**06279-1100X10**	100	10H7	28	17	31	-/3	-/11,4
06279-0100X12	**06279-1100X12**	100	12H7	28	17	31	-/4	-/13,8
06279-0120X12	**06279-1120X12**	120	12H7	27	18	30	-/4	-/13,8
06279-0120X14	**06279-1120X14**	120	14H7	27	18	30	-/5	-/16,3
06279-0160X14	**06279-1160X14**	160	14H7	34	20	40	-/5	-/16,3
06279-0160X16	**06279-1160X16**	160	16H7	34	20	40	-/5	-/18,3
06279-0200X18	**06279-1200X18**	200	18H7	40	24	44	-/6	-/20,8
06279-0200X22	**06279-1200X22**	200	22H7	40	24	44	-/6	-/24,8
06279-0250X22	**06279-1250X22**	250	22H7	49	28	61	-/6	-/24,8
06279-0250X26	**06279-1250X26**	250	26H7	49	28	61	-/8	-/29,3
06279-0280X24	**06279-1280X24**	280	24H7	51	30	38	-/8	-/27,3
06279-0280X28	**06279-1280X28**	280	28H7	51	30	38	-/8	-/31,3
06279-0360X28	**06279-1360X28**	360	28H7	63	35	73	-/8	-/31,3
06279-0360X32	**06279-1360X32**	360	32H7	63	35	73	-/10	-/35,3

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Handwheels disc

with revolving grip





Material:
Thermoset PF 31, black.
Hubs and steel parts of grip nickel-plated steel or bright 1.4305 stainless steel.

Version:
High-gloss polished.

Sample order:
nlm 06287-0125X08

Note:
The handwheel is supplied with the grip loose.

On request:
Other reamed hole sizes.

Drawing reference:
Form D: pilot hole
Form E: reamed hole

Handwheels disc, with revolving grip

Order No. Form D	Order No. Form E	D1	D2	D3	D4	D6	D7	D8	H	H1	H2	L1	L2	L3	L4
06287-0100X06	**06287-1100X10**	100	6/10H8	22	20	79	M6	29	12/-	9	8	29,5	19	39	54,7
06287-0125X08	**06287-1125X12**	125	8/12H8	26	21	101	M6	34	15/-	9	8	34	24	46	54,7
06287-0140X08	**06287-1140X14**	140	8/14H8	30	25	110	M8	39	16/-	12	8	38,5	27	52	82,2
06287-0160X10	**06287-1160X16**	160	10/16H8	33	30	128	M8	43	20/-	12	8	41,3	30,1	57	82,2
-	**06287-1160X18**	160	18H8	33	30	128	M8	43	-	12	8	41,3	30,1	57	82,2

Handwheels disc, with revolving grip, metal parts stainless steel

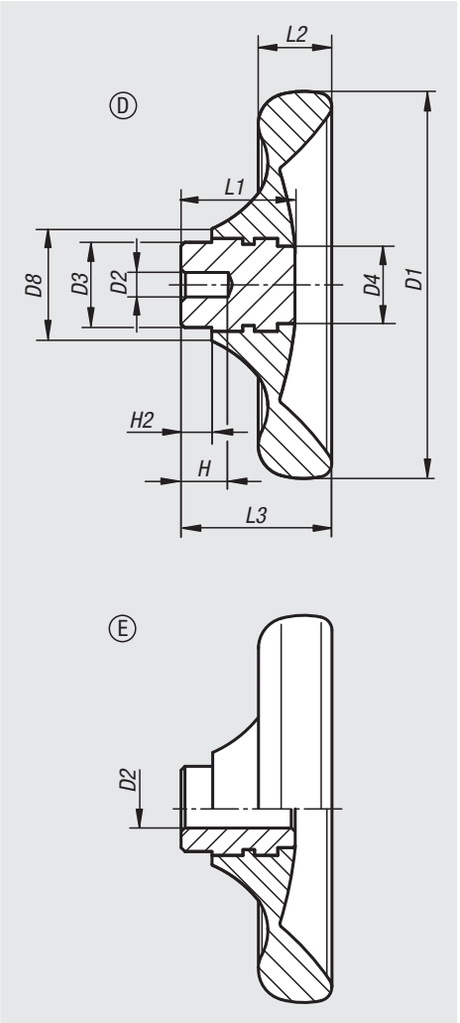
Order No. Form D	Order No. Form E	D1	D2	D3	D4	D6	D7	D8	H	H1	H2	L1	L2	L3	L4
06287-2100X06	**06287-3100X10**	100	6/10H7	22	20	79	M6	29	12/-	9	8	29,5	19	39	54,7
06287-2125X08	**06287-3125X12**	125	8/12H7	26	21	101	M6	34	15/-	9	8	34	24	46	54,7
06287-2140X08	**06287-3140X14**	140	8/14H7	30	25	110	M8	39	16/-	12	8	38,5	27	52	82,2
06287-2160X10	**06287-3160X16**	160	10/16H7	33	30	128	M8	43	20/-	12	8	41,3	30,1	57	82,2
-	**06287-3160X18**	160	18H7	33	30	128	M8	43	-	12	8	41,3	30,1	57	82,2

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Handwheels disc

without grip





Material:
Black thermoset PF 31.
Hub nickel-plated steel or bright 1.4305 stainless steel.

Version:
High-gloss polished.

Sample order:
nlm 06288-0100X06

On request:
Other reamed hole sizes.

Drawing reference:
Form D: pilot hole
Form E: reamed hole

Handwheels disc, without grip, bush steel

Order No. Form D	Order No. Form E	D1	D2	D3	D4	D8	H	H2	L1	L2	L3
06288-0100X06	**06288-1100X10**	100	6/10H8	22	20	29	12/-	8	29,5	19	39
06288-0125X08	**06288-1125X12**	125	8/12H8	26	21	34	15/-	8	34	24	46
06288-0140X08	**06288-1140X14**	140	8/14H8	30	25	39	16/-	8	38,5	27	52
06288-0160X10	**06288-1160X16**	160	10/16H8	33	30	43	20/-	8	41,3	30,1	57
-	**06288-1160X18**	160	18H8	33	30	43	-	8	41,3	30,1	57

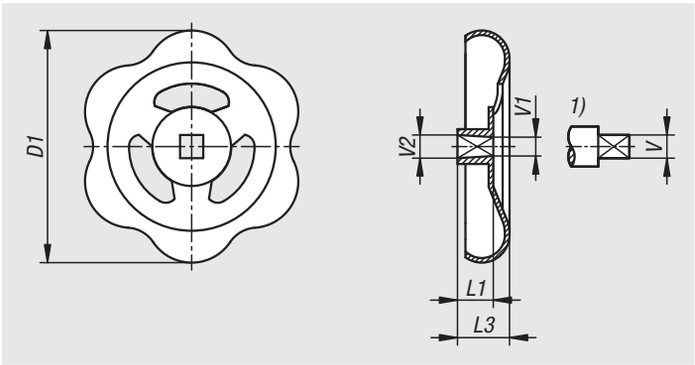
Handwheels disc, without grip, bush stainless steel

Order No. Form D	Order No. Form E	D1	D2	D3	D4	D8	H	H2	L1	L2	L3
06288-2100X06	**06288-3100X10**	100	6/10H7	22	20	29	12/-	8	29,5	19	39
06288-2125X08	**06288-3125X12**	125	8/12H7	26	21	34	15/-	8	34	24	46
06288-2140X08	**06288-3140X14**	140	8/14H7	30	25	39	16/-	8	38,5	27	52
06288-2160X10	**06288-3160X16**	160	10/16H7	33	30	43	20/-	8	41,3	30,1	57
-	**06288-3160X18**	160	18H7	33	30	43	-	8	41,3	30,1	57

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Hand wheels, steel, stamped





Material:
Steel.

Version:
Powder-coated black RAL 9005, red RAL 3000 or trivalent blue passivated.

Sample order:
nlm 06289-050060

Note:
Especially suitable for stop valves. The handwheels are made from a single piece. The handwheel is strengthened in the hub area using a special forming process. The tapered hub allows easy mounting and ensures secure seating on the square bar.

Drawing reference:
1) Square on shaft

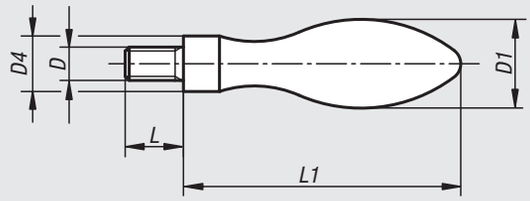
Order No. passivated	Order No. jet black RAL 9005	Order No. red RAL 3000	D1	L1	L3	V	V1	V2	Number of spokes
06289-130122	**06289-130120**	**06289-130121**	130	15	23	12	11,9	12,15	3
06289-050062	**06289-050060**	**06289-050061**	50	8,5	12	6	5,9	6,15	3
06289-050072	**06289-050070**	**06289-050071**	50	8,5	12	7	6,9	7,15	3
06289-060062	**06289-060060**	**06289-060061**	60	8,5	12	6	5,9	6,15	3
06289-060072	**06289-060070**	**06289-060071**	60	8,5	12	7	6,9	7,15	3
06289-110102	**06289-110100**	**06289-110101**	108	15	23	10	9,9	10,15	3
06289-070072	**06289-070070**	**06289-070071**	69	10	15	7	6,9	7,15	3
06289-100102	**06289-100100**	**06289-100101**	98	13	20	10	9,9	10,15	3
06289-070082	**06289-070080**	**06289-070081**	69	10	15	8	7,9	8,15	3
06289-080082	**06289-080080**	**06289-080081**	78	11	16	8	7,9	8,15	3
06289-080092	**06289-080090**	**06289-080091**	78	11	16	9	8,9	9,15	3
06289-090092	**06289-090090**	**06289-090091**	89	11	16	9	8,9	9,15	3
06289-100092	**06289-100090**	**06289-100091**	98	13	20	9	8,9	9,15	3

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Machine handles fixed

steel, similar to DIN 39

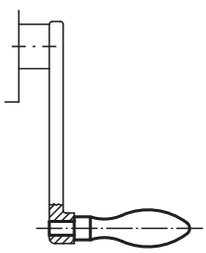




Material:
Steel.

Version:
Polished.

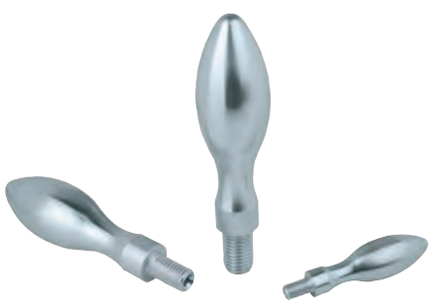
Sample order:
nlm 06290-216

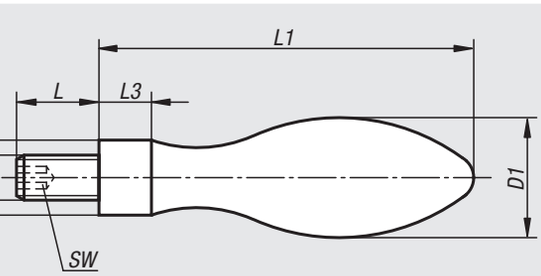


Order No.	D	D1	D4	L	L1
06290-213	M5	13	8	10	40
06290-216	M6	16	10	13	50
06290-220	M8	20	13	15	64
06290-225	M10	25	16	18	80
06290-232	M12	32	20	20	100

Machine handles fixed

steel, DIN 39 Form E





Material:
Grip and screw steel.

Version:
Grip and axle part trivalent blue passivated.

Sample order:
nlm 06291-0616050

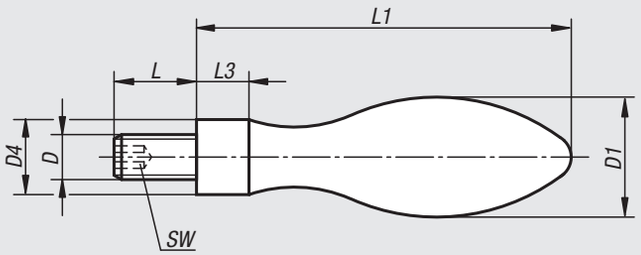
Note:
Machine handle suitable for DIN 950 handwheels.

Order No.	D	D1	D4	L	L1	L3	SW
06291-0616050	M6	16	10	11	50	7	3
06291-0820064	M8	20	13	13	64	8	4
06291-1025080	M10	25	16	14	80	10	5
06291-1232100	M12	32	20	21	100	13	6
06291-1636112	M16	36	22	26	112	14	8

Machine handles fixed

aluminium, DIN 39 Form E





Material:
Grip aluminium.
Screw steel.

Version:
Grip polished.
Screw black.

Sample order:
nlm 06292-0616050

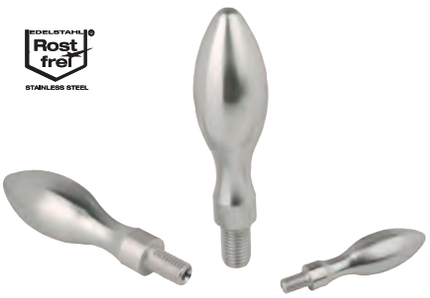
Note:
Machine handle suitable for DIN 950 handwheels.

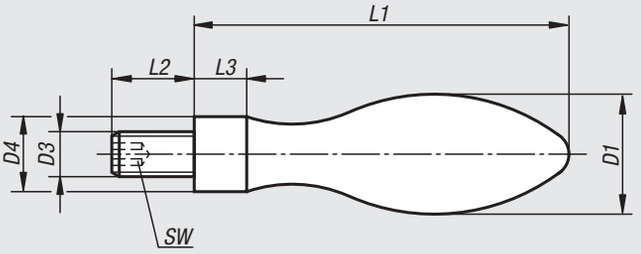
Order No.	D	D1	D4	L	L1	L3	SW
06292-0616050	M6	16	10	11	50	7	3
06292-0820064	M8	20	13	13	64	8	4
06292-1025080	M10	25	16	14	80	10	5
06292-1232100	M12	32	20	21	100	13	6
06292-1636112	M16	36	22	26	112	14	8

06293

Machine handles, fixed,

DIN 39 Form E, stainless steel





Material:
1.4305 or 1.4401 stainless steel.

Version:
Electropolished.

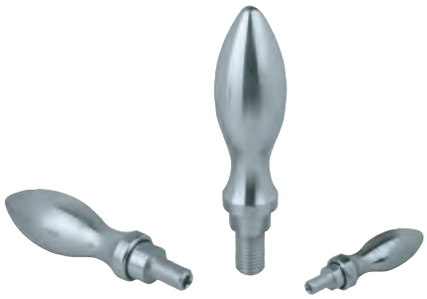
Sample order:
nlm 06293-0616050

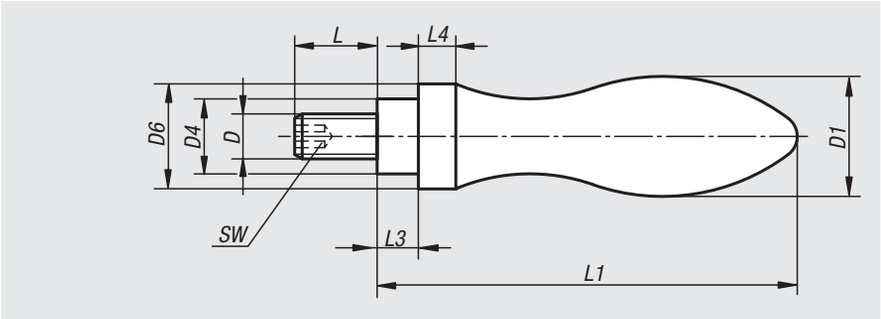
Note:
1.4401 stainless steel, similar to DIN 39.
Grip suitable for DIN 950 handwheels.

Order No.	Steel code	D	D1	D4	L	L1	L3	SW
06293-0616050	**1.4305**	M6	16	10	11	50	7	3
06293-0820064	**1.4305**	M8	20	13	13	64	8	4
06293-1025080	**1.4305**	M10	25	16	14	80	10	5
06293-10616050	**1.4401**	M6	16	11	13	51	5,1	3
06293-10820064	**1.4401**	M8	21	14	14	67	8,75	4
06293-11025080	**1.4401**	M10	25	16	18	81	9,75	5

Machine handles revolving

similar to DIN 98 Form E, steel





Material:
Grip and screw steel.

Version:
Grip and axle part trivalent blue passivated.

Sample order:
nlm 06308-0616055

Note:
The handles with D1=25 mm and 32 mm have a thread length L2 that is shorter than the length specified in DIN 98. These machine handles are suitable for DIN 950 handwheels.

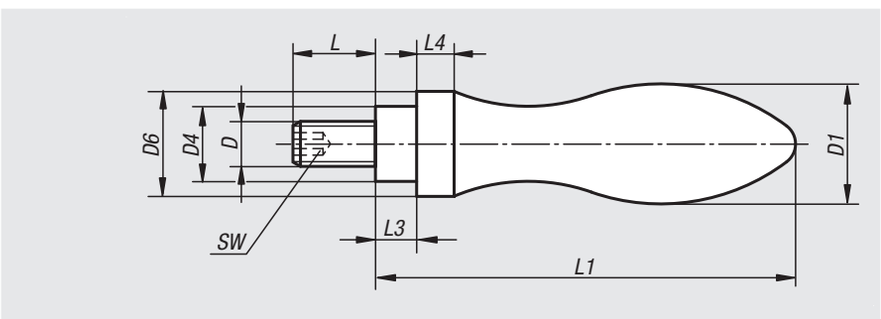
Order No.	D	D1	D4	D6	L	L1	L3	L4	SW
06308-0616055	M6	16	10	14	11	54,5	5,5	5	3
06308-0820067	M8	20	13	18	13	67	6	6	4
06308-1025083	M10	25	16	21	13	83	8	6,5	5
06308-1232105	M12	32	20	26	16	105,5	10,5	8	6
06308-1636117	M16	36	22	29	26	117	11	9	8

06309

Machine handles revolving

aluminium, similar to DIN 98 Form E





Material:
Grip aluminium.
Screw steel.

Version:
Grip polished.
Axle trivalent blue passivated.

Sample order:
nlm 06309-0616055

Note:
Machine handle suitable for DIN 950 handwheels.

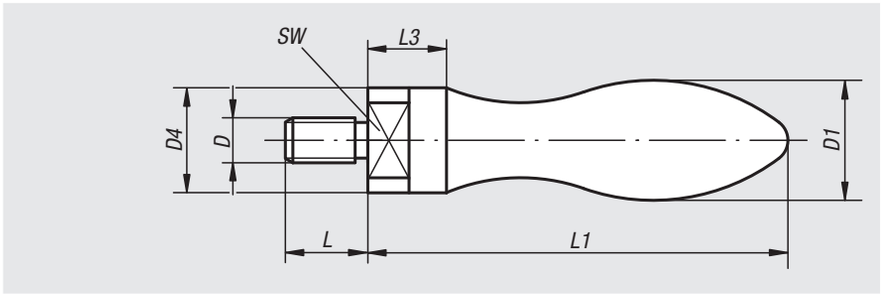
Order No.	D	D1	D4	D6	L	L1	L3	L4	SW
06309-0616055	M6	16	10	14	11	54,5	5,5	5	3
06309-0820067	M8	20	13	18	13	67	6	6	4
06309-1025083	M10	25	16	21	13	83	8	6,5	5
06309-1232105	M12	32	20	26	16	105,5	10,5	8	6
06309-1636117	M16	36	22	29	26	117	11	9	8

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Machine handles

revolving similar to DIN 98 Form E, stainless steel





Material:
Stainless steel 1.4404.

Version:
Polished

Sample order:
nlm 06309-01-10616050

Note:
Machine handle suitable for DIN 950 handwheels.

Order No.	D	D1	D4	L	L1	L3	SW
06309-01-10616050	M6	16	11	13	56	11	8
06309-01-10820064	M8	20	13,5	14	72	13	10
06309-01-11025080	M10	24	16	16	86	15	11

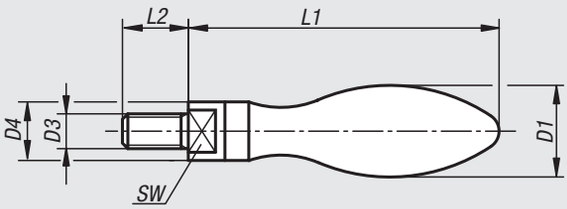
Notes

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Machine handles revolving

steel, similar to DIN 98





Material:
Steel.

Version:
Polished.

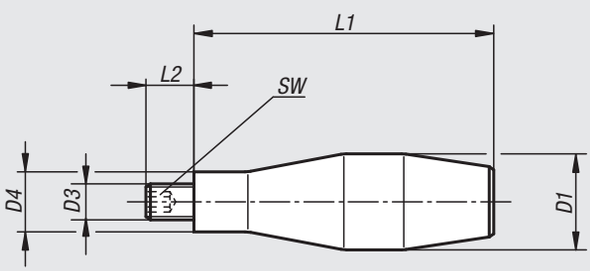
Sample order:
nlm 06310-225

Order No.	D1	D3	D4	L1	L2	SW
06310-216	16	M6	10	53	13	8
06310-220	20	M8	13	66	15	10
06310-225	25	M10	16	85	18	13
06310-232	32	M12	20	107	20	17

Machine handles fixed

straight form, similar to DIN 39

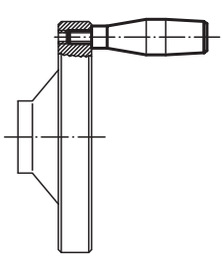




Material:
Aluminium.
Screw, steel.

Version:
Grip highly polished.

Sample order:
nlm 06311-20



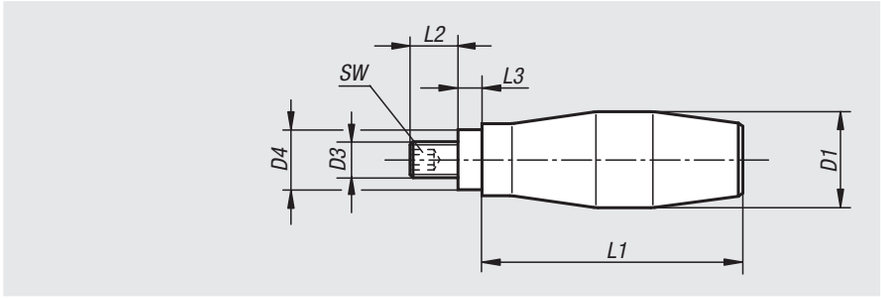
Order No.	D1	D3	D4	L1	L2	SW
06311-16	16	M6	10	52	11	3
06311-20	20	M8	13	66	13	4
06311-25	25	M10	16	80	14	5
06311-29	32	M12	20	100	16	6

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Machine handles revolving

straight form, similar to DIN 98





Material:
Aluminium.
Axle, steel

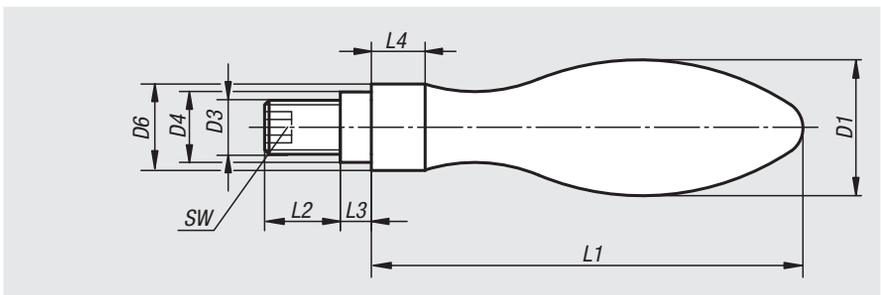
Version:
Grip highly polished.

Sample order:
nlm 06312-24

Order No.	D1	D3	D4	L1	L2	SW
06312-20	20	M8	13	60	13	4
06312-24	24	M10	16	70	13	5
06312-31	31	M12	20	88	16	6

Machine handles revolving





Material:
Grip thermoplastic.
Axle steel.

Version:
Grip black.
Steel chromed.

Sample order:
nlm 06313-208

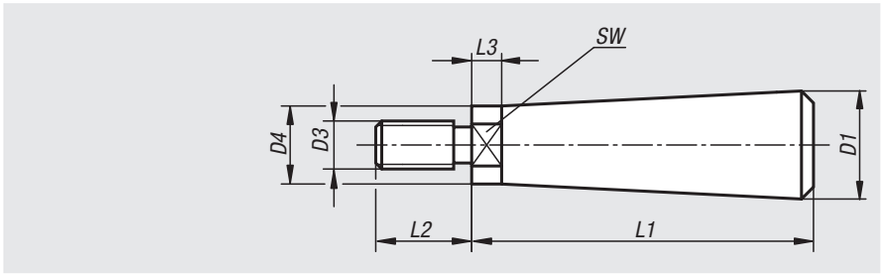
Order No.	Material	D1	D3	D4	D6	L1	L2	L3	L4	SW
06313-206	thermoplastic	16	M6	10	14	49	11	5,5	5	3
06313-208	thermoplastic	20	M8	13	18	61	13	6	6	4
06313-210	thermoplastic	25	M10	16	21	75	14	8	6,5	5
06313-212	thermoplastic	32	M12	20	26	95	21	10,5	8	6

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Conical grip

revolving

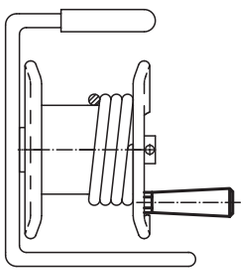




Material:
Black thermoset PF 31.
Axle steel.

Version:
Centre pin electro zinc-plated.

Sample order:
nlm 06314-18

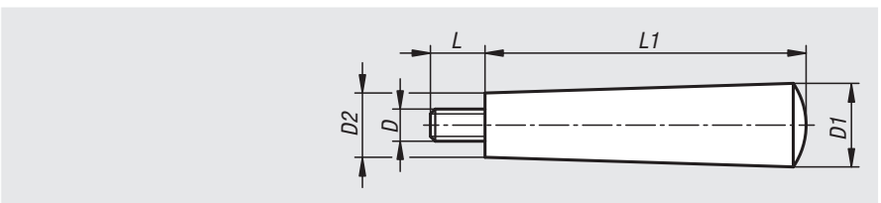


Order No.	D1	D3	D4	L1	L2	L3	SW
06314-18	18	M8	13	57	16	5	11
06314-23	20	M10	16	69	20	5	13

Taper grips

fixed





Material:
Black thermoset PF 31.
Screw electro zinc-plated steel.

Version:
High-gloss polished.

Sample order:
nlm 06315-120408

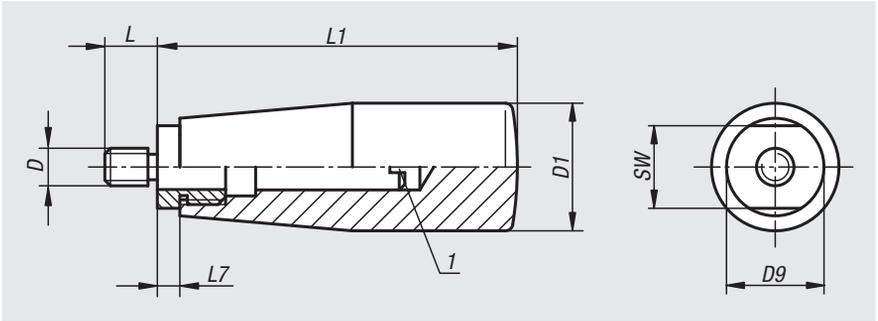
Order No.	D	D1	D2	L	L1
06315-120408	M4	12	9	8	40
06315-150507	M5	15	11	7	50
06315-180608	M6	18	13	8	64
06315-210610	M6	21	15	10	72
06315-210810	M8	21	15	10	72
06315-250810	M8	25	17	10	90
06315-261012	M10	26	20	12	100

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Taper grips

revolving





Material:
Black thermoset PF 31.
Centre pin and tapped bush electro zinc-plated steel or bright stainless steel.

Version:
High-gloss polished.

Sample order:
nlm 06316-105007

Note:
To mount unscrew the axle.

Drawing reference:
1) mounting aid

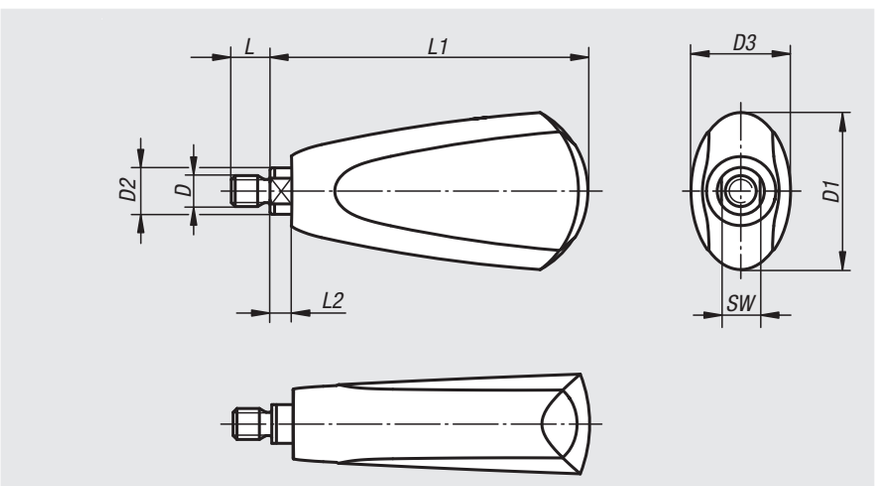
Order No. steel	Order No. stainless steel	D	D1	D9	L	L1	L7	SW
06316-105007	**06316-1105007**	M5	17	15	7	51	5	13
06316-206008	**06316-1206008**	M6	23	18	8	68	6	16
06316-208009	**06316-1208009**	M8	23	18	9	68	6	16
06316-310011	**06316-1310011**	M10	28	21	11	77	7	19

06316

Taper grips

revolving





Material:
Thermoset PF 31, black.
Centre pin nickel-plated steel or bright 1.4305 stainless steel.
Snap ring 1.4310 stainless steel.

Version:
High-gloss polished.

Sample order:
nlm 06316-106009

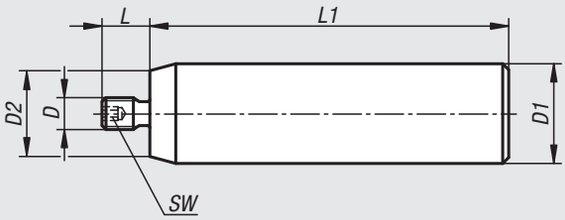
Note:
The grips are suitable for disc handwheels with revolving taper grip 06287.

Order No. steel	Order No. stainless steel	D	D1	D2	D3	L	L1	L2	SW
06316-106009	**06316-1106009**	M6	25	8	18	9	54,7	4,5	7
06316-208010	**06316-1208010**	M8	41	12	26	10	82,2	5,5	10

Cylindrical grips revolving

stainless steel





Material:
Axis and revolving grip stainless steel 1.4305.
Snap ring stainless steel 1.4310.

Version:
Bright.

Sample order:
nlm 06317-105

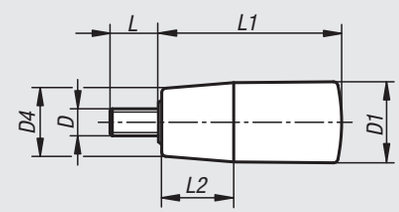
Assembly:
Screw in using hexagon socket in axis.

Order No.	D	D1	D2	L	L1	SW
06317-105	M5	16	12,5	8	60	3
06317-206	M6	20	16,5	9	72	3
06317-308	M8	25	21,5	12	90	3

Conical grips

revolving





Material:
Thermoset PF 31, black.
Centre pin electro zinc-plated steel or bright stainless steel.

Version:
High-gloss polished.

Sample order:
nlm 06318-10618

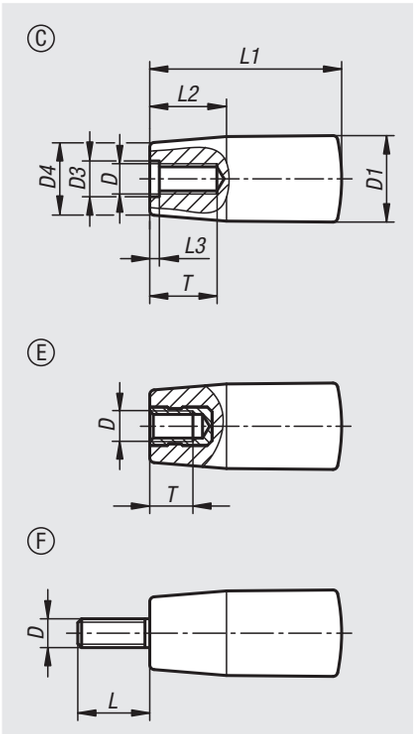
Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

Order No. steel	Order No. stainless steel	D	D1	D4	L	L1	L2
06318-0618	**06318-10618**	M6	18	15	11	40,5	16
06318-0823	**06318-10823**	M8	23	19	13	65,5	24
06318-1028	**06318-11028**	M10	28	22	14	90,5	32

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Taper grips





Material:
Thermoset PF 31, black.
Steel bush and stud, electro zinc-plated.

Version:
High-gloss polished.

Sample order:
nlm 06319-10818

On request:
Other colours.

Drawing reference:
Form C: moulded female thread
Form E: tapped bush
Form F: male thread

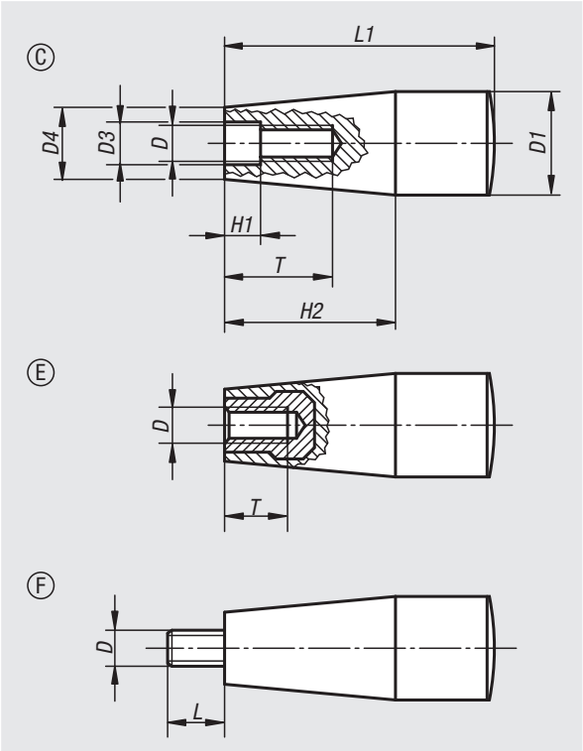
Order No.	Form	D	D1	D3	D4	L1	L2	L3	T
06319-10618	C	M6	18	6,2	15	40	16	2	14
06319-10818	C	M8	18	8,5	15	40	16	2	18
06319-10823	C	M8	23	8,5	19	65	24	2	18
06319-11028	C	M10	28	10,5	22	90	32	3,5	22
06319-20518	E	M5	18	-	15	40	16	-	7,5
06319-20618	E	M6	18	-	15	40	16	-	9
06319-20823	E	M8	23	-	19	65	24	-	12
06319-20828	E	M8	28	-	22	90	32	-	12
06319-21028	E	M10	28	-	22	90	32	-	15

Order No.	Form	D	D1	D4	L	L1	L2
06319-30618	F	M6	18	15	15	40	16
06319-30823	F	M8	23	19	15	65	24
06319-31028	F	M10	28	22	15	90	32

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Taper grips





Material:
Thermoset PF 31, black.
Bush and stud electro zinc-plated steel.
Form E has copper-plated steel or brass bushes.

Version:
High-gloss polished.

Sample order:
nlm 06320-106

Note:
The versions 06320-205 and 06320-206 have a brass bush.
The versions 06320-208 and 06320-2081 have copper-plated steel bushes.

On request:
Other colours.

Drawing reference:
Form C: moulded female thread
Form E: tapped bush
Form F: male thread

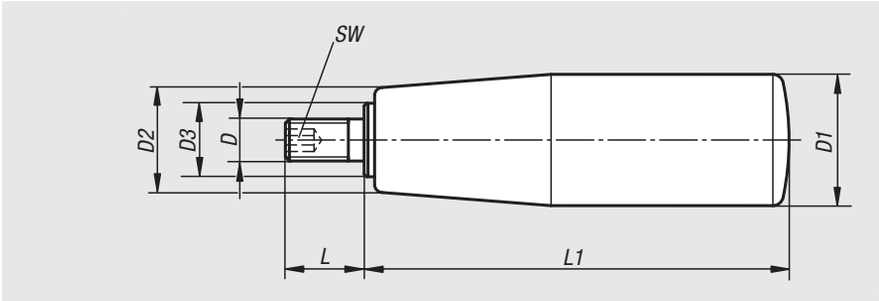
Order No.	Form	D	D1	D3	D4	H1	H2	L1	T
06320-106	C	M6	17	6,2	15	2	26	45	14
06320-108	C	M8	17	8,2	13	2	26	45	16
06320-1081	C	M8	23	8,5	18	2	38	61	24
06320-110	C	M10	29	10,5	21	3,5	42	71	28
06320-205	E	M5	17	-	15	-	26	45	10
06320-206	E	M6	17	-	15	-	26	45	9
06320-208	E	M8	23	-	18	-	38	61	14
06320-2081	E	M8	28	-	21	-	42	71	14

Order No.	Form	D	D1	D4	H2	L	L1
06320-306	F	M6	17	15	26	18	45
06320-308	F	M8	23	18	38	12	61
06320-310	F	M10	29	21	42	20	71

Cylindrical grips revolving

with hexagon socket





Material:
Grip thermoplastic.
Steel parts electro zinc-plated.

Version:
Black satin finished.

Sample order:
nlm 06321-06200520

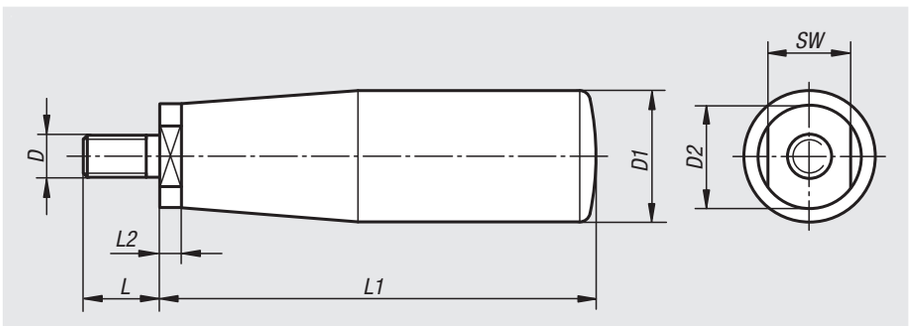
Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

Order No.	D	D1	D2	D3	L	L1	SW
06321-06200520	M6	20	15	10	12	51	3
06321-06230620	M6	23	18	10	12	62	3
06321-08230620	M8	23	18	10	15	62	4
06321-08250720	M8	25	19	10	15	71	4
06321-10250720	M10	25	19	10	15	71	4
06321-08250810	M8	26	22	14	15	81	4
06321-10250810	M10	26	22	14	15	81	5
06321-12260820	M12	26	22	14	15	81	5
06321-10270930	M10	27	22	14	15	92	5
06321-12270930	M12	27	22	14	15	92	5

06322

Cylindrical grips revolving





Material:
Grip thermoplastic.
Steel parts electro zinc-plated.

Version:
Black satin finished.

Sample order:
nlm 06322-06200500

Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

Order No.	D	D1	D2	L	L1	L2	SW
06322-06200500	M6	20	12	12	55	5	10
06322-08230600	M8	23	14	15	67	7	13
06322-08250690	M8	25	14	15	77	7	13
06322-10250690	M10	25	14	15	77	7	13
06322-10250800	M10	26	18	15	86	7	16
06322-10270890	M10	27	18	15	97	7	16
06322-12250800	M12	26	18	15	86	7	16
06322-12270890	M12	27	18	15	97	7	16

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Cylindrical grips fold-down

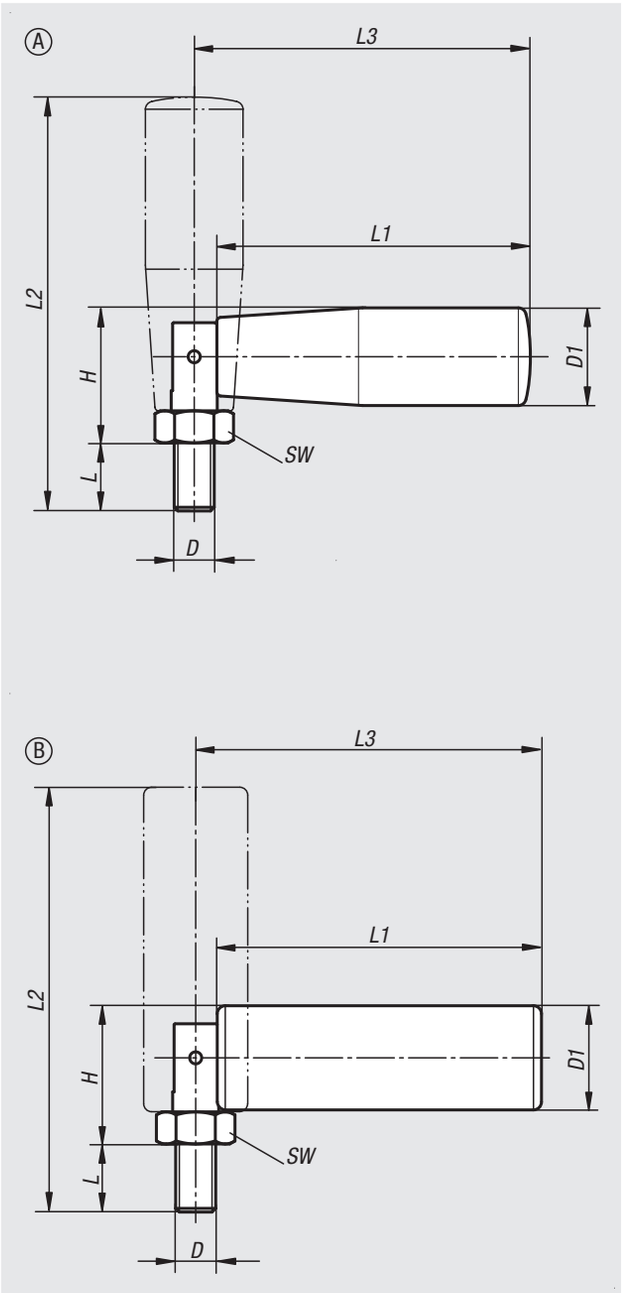


Material:
Grip thermoplastic.
Steel parts black oxidised.

Version:
Black satin finished.

Sample order:
nlm 06323-06200490

Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.



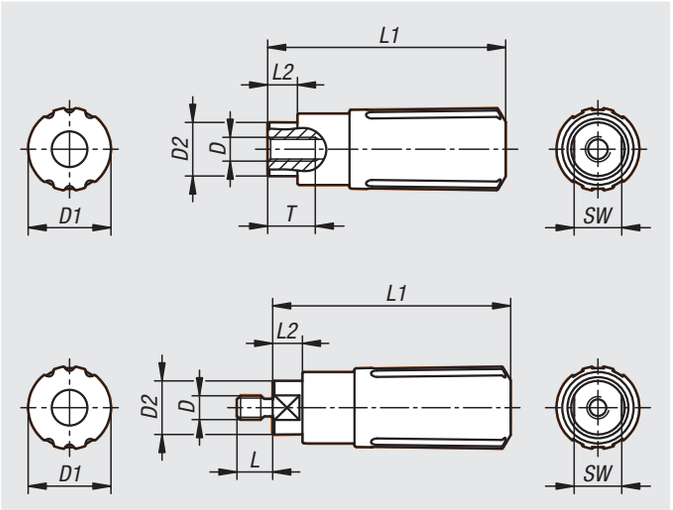
Order No.	Form	D	D1	SW	L	L1	L2	L3	H
06323-06200490	A	M6	20	10	9	49	63	53	24,5
06323-08250690	A	M8	25	13	11	70	87,5	74	28
06323-10260890	B	M10	26	17	16	90	114	96	34

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Cylindrical grips, plastic

revolving





Cylindrical grips are supplied assembled and can be screwed onto handwheels, crank handles, etc.
The grooves and conical shape ensure that the cylindrical grips have optimised haptics and good grip.

Material:
Grip, thermoplastic.
Centre pin, steel.

Version:
Grip, black.
Steel parts, black oxidised.

Sample order:
nlm 06325-01-205

Advantages:
Optimised haptics and good grip
Grips for handwheels and cranks
Various thread sizes

Cylindrical grips, plastic revolving, internal thread

Order No.	Thread type	Size	D	D1	D2	L1	L2	T	SW
06325-01-1104	internal thread	1	M4	14	9	40	5	8	8
06325-01-1205	internal thread	2	M5	16	11	49,1	5,1	10	10
06325-01-1306	internal thread	3	M6	20	14	61,4	6,4	12	12
06325-01-1408	internal thread	4	M8	25	18	82,5	12,5	16	15

Cylindrical grips, plastic revolving, external thread

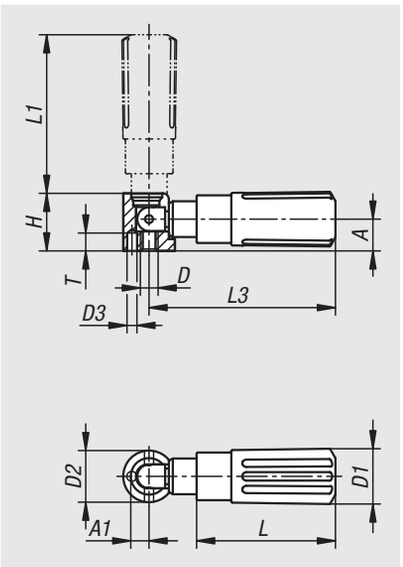
Order No.	Thread type	Size	D	D1	D2	L	L1	L2	SW
06325-01-104	external thread	1	M4	14	9	6	40	5	8
06325-01-205	external thread	2	M5	16	11	7,5	49,1	5,1	10
06325-01-306	external thread	3	M6	20	14	9	61,4	6,4	12
06325-01-408	external thread	4	M8	25	18	12	82,5	12,5	15

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Cylindrical grips, plastic

fold-down





Cylindrical grips are supplied assembled and can be screwed onto handwheels, crank handles, etc.
The grooves and conical shape ensure that the cylindrical grips have optimised haptics and good grip.
The fold-down grip prevents protruding edges, which also minimises the risk of injury.

Material:
Grip, thermoplastic.
Centre pin, steel.

Version:
Grip, black.
Steel parts, black oxidised.

Sample order:
nlm 06326-01-104

Note:
The hole D3 is used for positioning.

Advantages:
Optimised haptics and good grip
Protruding edges prevented
Grips for handwheels and cranks
Various thread sizes

Cylindrical grips, plastic fold-down

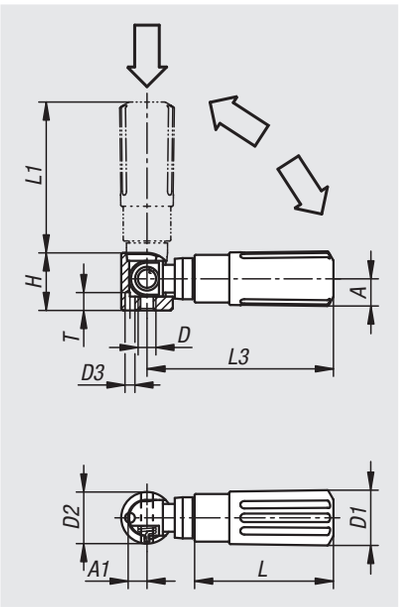
Order No.	Size	A	A1	D	D1	D2	D3	H	L	L1	L3	T
06326-01-104	1	8	4,3	M4	14	13	2,5	14,5	35	40	47	4,5
06326-01-205	2	10	5,3	M5	16	16	3,5	18	44	49	58	4,5
06326-01-306	3	12,5	6,5	M6	20	20	4,5	22,5	55	59,5	71,5	6
06326-01-408	4	16	9	M8	25	26	5,5	29	70	83	98	6,5

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Safety cylindrical grips, plastic

auto-return





Cylindrical grips are supplied assembled and can be screwed onto handwheels, crank handles, etc.
The grooves and conical shape ensure that the cylindrical grips have optimised haptics and good grip.
The auto-return mechanism prevents protruding edges, which also minimises the risk of injury.

Material:
Grip, thermoplastic.
Centre pin, steel.

Version:
Grip, black.
Steel parts, black oxidised.

Sample order:
nlm 06328-01-104

Note:
Two actions must be made to bring the safety cylinder grip into an operating position:
- Swing the grip out around the pivot shaft until it stops (90°).
- Push the grip in an axial direction into the lock position.
  The grip swivels back automatically after releasing.

The hole D3 is used as a location hole.

Advantages:
Optimised haptics and good grip
Grips for handwheels and cranks
Auto-return after release
Various thread sizes

Safety cylindrical grips, plastic auto-return

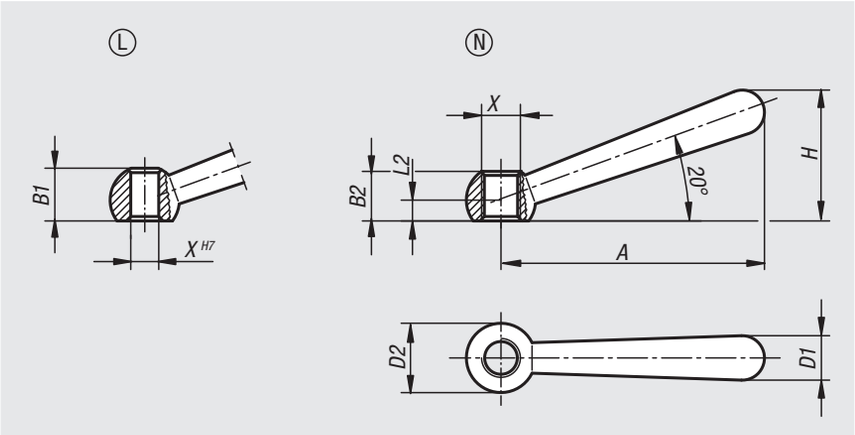
Order No.	Size	A	A1	D	D1	D2	D3	H	L	L1	L3	T
06328-01-104	1	8	4,3	M4	14	13	2,5	14,5	35	38	47	4,5
06328-01-205	2	10	5,3	M5	16	16	3,5	18	44	47,5	58	4,5
06328-01-306	3	12,5	6,5	M6	20	20	4,5	22,5	55	58,5	71,5	6
06328-01-408	4	16	9	M8	25	26	5,5	29	70	82	98	6,5

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Levers 20°

DIN 99





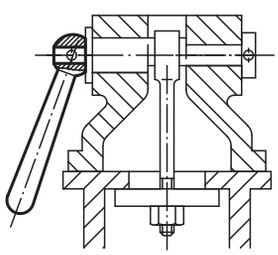
Material:
Steel.

Version:
Polished.

Sample order:
nlm 06330-212

Note:
To fix the lever to another element, gluing is often more cost-effective than pinning.

Drawing reference:
Form L: with hole
Form N: with internal thread

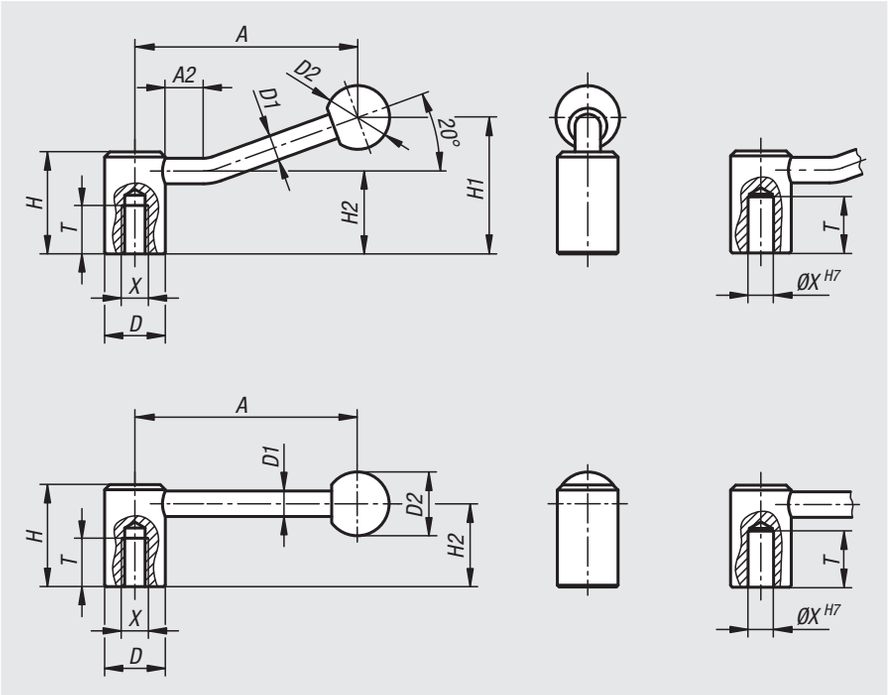


Order No. Form L	Order No. Form N	X	A=handle length	B1	B2	D1	D2 ball	H	L2
06330-106	**06330-206**	6/M6	48	9,5/-	-/9,5	8	12	24	4
06330-108	**06330-208**	8/M8	60	12/-	-/12	10	16	30,5	5
06330-110	**06330-210**	10/M10	76	14,5/-	-/14,5	13	20	38	6
06330-112	**06330-212**	12/M12	95	18,5/-	-/18,5	16	25	47	7,5
06330-116	**06330-216**	16/M16	119	24/-	-/24	20	32	59,5	10
06330-120	**06330-220**	20/M20	152	30/-	-/30	25	40	75,5	12,5

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Tension lever





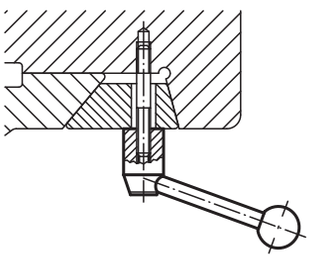
Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Black oxidised.

Sample order:
nlm 06340-208

Note:
Tension levers can be used for simple clamping or control operations.
Where applicable, there must be enough space available so that the grip can be rotated 360°.

On request:
Other internal threads, reamed holes and special versions.
Dimension “A” available in other lengths at extra charge.

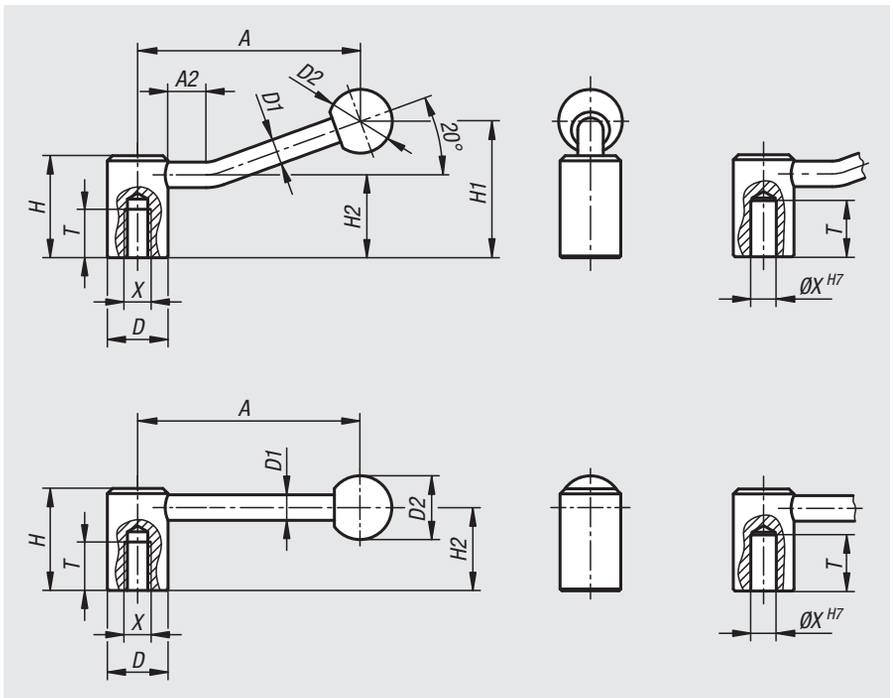


Order No. 0°	Order No. 20°	Kind of fastening	X	T	A=handle length	A2	D	D1	D2	H	H1	H2
06340-2082	**06340-208**	**internal thread**	M8	18	88,1/84,5	-/15	24	10	25	40	-/52,5	32,5
06340-2102	**06340-210**	**internal thread**	M10	18	88,1/84,5	-/15	24	10	25	40	-/52,5	32,5
06340-21012	**06340-2101**	**internal thread**	M10	20	104/100	-/15	28	12	32	46	-/61	36,5
06340-2122	**06340-212**	**internal thread**	M12	20	104/100	-/15	28	12	32	46	-/61	36,5
06340-2162	**06340-216**	**internal thread**	M16	23	126,5/121	-/15	33	13	32	52	-/72	41
06340-2202	**06340-220**	**internal thread**	M20	26	128,5/123	-/15	41	13	32	61	-/80	49
06340-1102	**06340-110**	**reamed hole**	10	22	88,1/84,5	-/15	24	10	25	40	-/52,5	32,5
06340-1122	**06340-112**	**reamed hole**	12	25	104/100	-/15	28	12	32	46	-/61	36,5
06340-1142	**06340-114**	**reamed hole**	14	25	104/100	-/15	28	12	32	46	-/61	36,5
06340-1162	**06340-116**	**reamed hole**	16	28	126,5/121	-/15	33	13	32	52	-/72	41
06340-1202	**06340-120**	**reamed hole**	20	32	128,5/123	-/15	41	13	32	61	-/80	49

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Tension levers stainless steel





Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Stainless steel parts bright.
Ball knob polished.

Sample order:
nlm 06341-2082

Note:
Tension levers can be used for simple clamping or control operations.
Where applicable, there must be enough space available so that the grip can be rotated 360°.

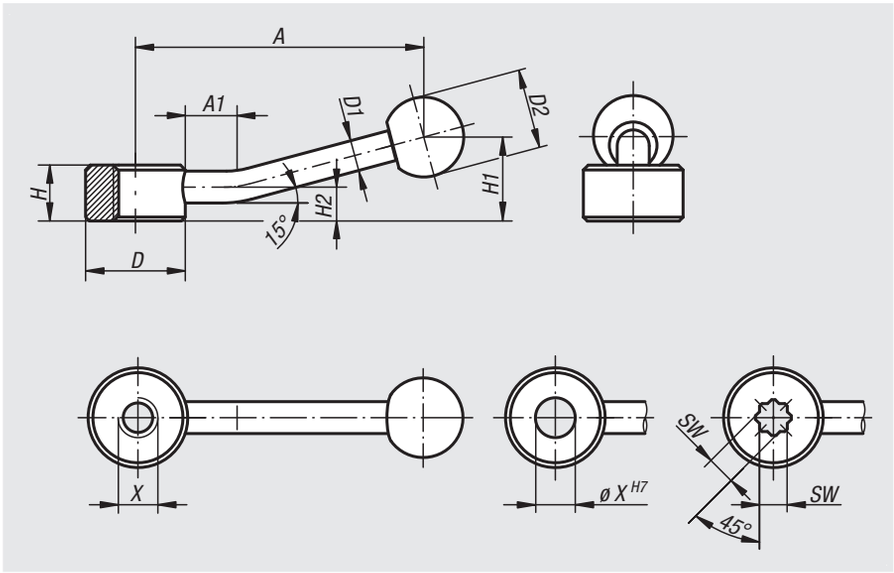
On request:
Other internal threads, reamed holes and special versions.
Dimension “A” available in other lengths at extra charge.

Order No. 0°	Order No. 20°	Thread type	X	A	A2	D	D1	D2	H	H1	H2	T
06341-2082	**06341-208**	internal thread	M8	88,1/84,5	-/15	24	10	25	40	-/52,5	32,5	18
06341-2102	**06341-210**	internal thread	M10	88,1/84,5	-/15	24	10	25	40	-/52,5	32,5	18
06341-21012	**06341-2101**	internal thread	M10	104/100	-/15	28	12	32	46	-/61	36,5	20
06341-2122	**06341-212**	internal thread	M12	104/100	-/15	28	12	32	46	-/61	36,5	20
06341-2162	**06341-216**	internal thread	M16	126,5/121	-/15	33	13	32	52	-/72	41	23
06341-2202	**06341-220**	internal thread	M20	128,5/123	-/15	41	13	32	61	-/80	49	26
06341-1102	**06341-110**	reamed hole	10	88,1/84,5	-/15	24	10	25	40	-/52,5	32,5	22
06341-1122	**06341-112**	reamed hole	12	104/100	-/15	28	12	32	46	-/61	36,5	25
06341-1142	**06341-114**	reamed hole	14	104/100	-/15	28	12	32	46	-/61	36,5	25
06341-1162	**06341-116**	reamed hole	16	126,5/121	-/15	33	13	32	52	-/72	41	28
06341-1202	**06341-120**	reamed hole	20	128,5/123	-/15	41	13	32	61	-/80	49	32

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Tension levers flat





Material:
Steel parts grade 5.8.
Ball knob black thermoset PF 31

Version:
Black oxidised.

Sample order:
nlm 06342-206

Note:
Flat tension levers can be used for simple clamping or control operations. Where applicable, there must be enough space available so that the grip can be rotated 360°.
The version with star socket is designed to allow a 45° change of position.

On request:
Other internal threads, reamed holes and star sockets.
Dimension “A” available in other lengths at extra charge.

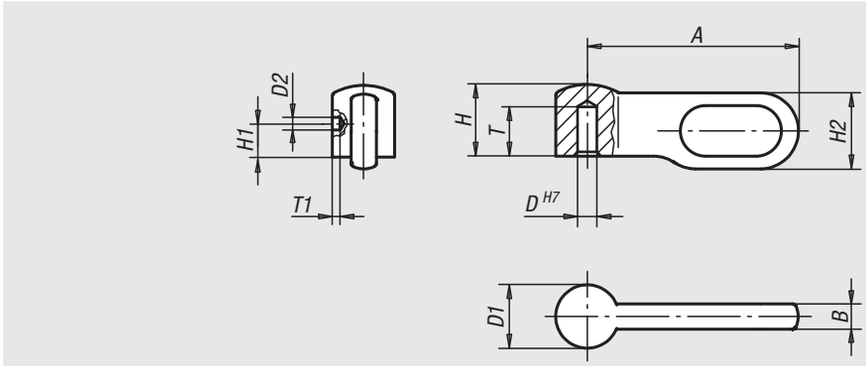
Order No.	Kind of fastening	X	A=handle length	A1	D	D1	D2	H	H1	H2
06342-206	**internal thread**	M6	75	15	25	8	20	14	22	8,5
06342-208	**internal thread**	M8	75	15	25	8	20	14	22	8,5
06342-210	**internal thread**	M10	75	15	25	8	20	14	22	8,5
06342-212	**internal thread**	M12	100	15	33	10	25	17	27	10
06342-216	**internal thread**	M16	100	15	33	10	25	17	27	10
06342-220	**internal thread**	M20	128	15	41	12	30	20	36	11,5
06342-224	**internal thread**	M24	128	15	41	12	30	20	36	11,5

Order No.	Kind of fastening	X	A=handle length	A1	D	D1	D2	H	H1	H2
06342-106	**reamed hole**	6	75	15	25	8	20	14	22	8,5
06342-108	**reamed hole**	8	75	15	25	8	20	14	22	8,5
06342-110	**reamed hole**	10	75	15	25	8	20	14	22	8,5
06342-112	**reamed hole**	12	100	15	33	10	25	17	27	10
06342-116	**reamed hole**	16	100	15	33	10	25	17	27	10
06342-120	**reamed hole**	20	128	15	41	12	30	20	36	11,5
06342-124	**reamed hole**	24	128	15	41	12	30	20	36	11,5

Order No.	Kind of fastening	SW	A=handle length	A1	D	D1	D2	H	H1	H2
06342-305	**star socket**	5,5	75	15	25	8	20	14	22	8,5
06342-307	**star socket**	7	75	15	25	8	20	14	22	8,5
06342-309	**star socket**	9	100	15	33	10	25	17	27	10
06342-311	**star socket**	11	100	15	33	10	25	17	27	10
06342-314	**star socket**	14	128	15	41	12	30	20	36	11,5
06342-319	**star socket**	19	128	15	41	12	30	20	36	11,5

Lock grips





Material:
Stainless steel 1.4308 or steel.

Version:
Stainless steel bright.
Steel black oxidised.

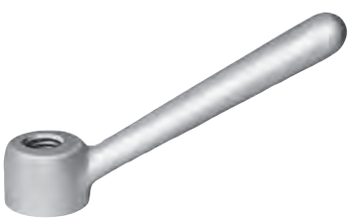
Sample order:
nlm 06349-1040

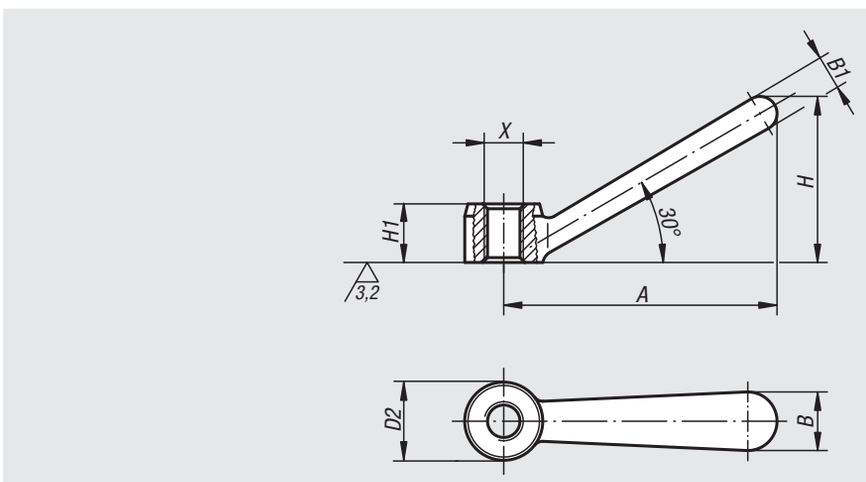
Note:
Lock grips can be used as required. The styled design with recessed grip gives fingers a good purchase and is well suited to modern requirements. High clamping forces can be easily attained. Use the pilot hole in the side to secure the grip by pinning or screw.

Order No.	Main material	Size	A	B	D	D1	D2	H	H1	H2	T	T1
06349-1040	stainless steel	1	25	3	4	7,5	1,5	8,5	3	9	5,5	0,5
06349-2050	stainless steel	2	30	3,6	5	9	2	10,2	4	10,8	6,5	1
06349-3060	stainless steel	3	40	4,8	6	12	2	13,6	5	14,4	8,7	1
06349-4080	stainless steel	4	50	6	8	15	3	17	6	18	10,2	1
06349-1041	steel	1	25	3	4	7,5	1,5	8,5	3	9	5,5	0,5
06349-2051	steel	2	30	3,6	5	9	2	10,2	4	10,8	6,5	1
06349-3061	steel	3	40	4,8	6	12	2	13,6	5	14,4	8,7	1
06349-4081	steel	4	50	6	8	15	3	17	6	18	10,2	1

06350

Tension levers

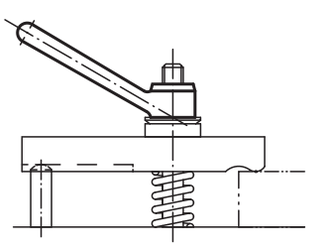




Material:
GJMW 400 malleable cast iron

Version:
Vibratory ground.
Bright.

Sample order:
nlm 06350-16

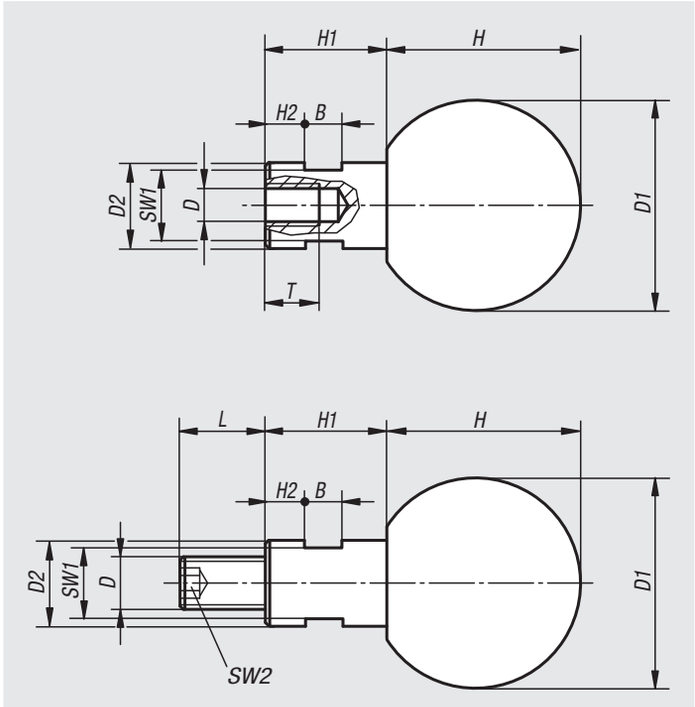


Order No.	X	A=handle length	B	B1	D2	H	H1
06350-08	M8	56	12	7	16	34	12
06350-10	M10	70	14	9	20	42,5	14
06350-12	M12	87	18	11	25	53	18
06350-16	M16	109	22	15	32	66,5	24
06350-20	M20	140	28	18	40	84,5	28

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Ball grips revolving





Material:
Ball thermoset PF 31.
Bush and screw steel or stainless steel 1.4305.

Version:
Ball black glossy.
Steel trivalent blue passivated.
Stainless steel bright.

Sample order:
nlm 06353-061

Ball grips revolving with female thread

Order No. steel	Order No. stainless steel	B	D	D1	D2	H	H1	H2	SW1	T
06353-060	**06353-1060**	5	M6	25	10	22,5	15	5	8	12,5
06353-080	**06353-1080**	6	M8	32	13	29,5	19	6	10	15
06353-100	**06353-1100**	8	M10	40	16	37	24	8	13	19
06353-120	**06353-1120**	10	M12	50	20	47	31	12	17	21,5

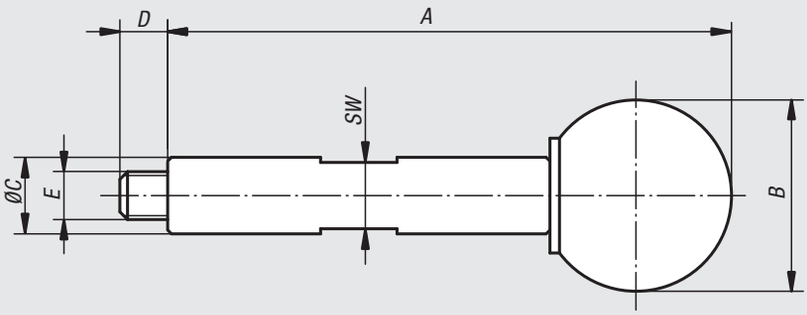
Ball grips revolving with male thread

Order No. steel	Order No. stainless steel	B	D	D1	D2	H	H1	H2	L	SW1	SW2
06353-061	**06353-1061**	5	M6	25	10	22,5	15	5	11	8	3
06353-081	**06353-1081**	6	M8	32	13	29,5	19	6	13	10	4
06353-101	**06353-1101**	8	M10	40	16	37	24	8	14	13	5
06353-121	**06353-1121**	10	M12	50	20	47	31	12	21	17	6

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Handles screw-in





Material:
Grip carbon steel.
Ball knob thermoset PF 31.

Version:
Grip, black oxidised.
Ball knob, black.

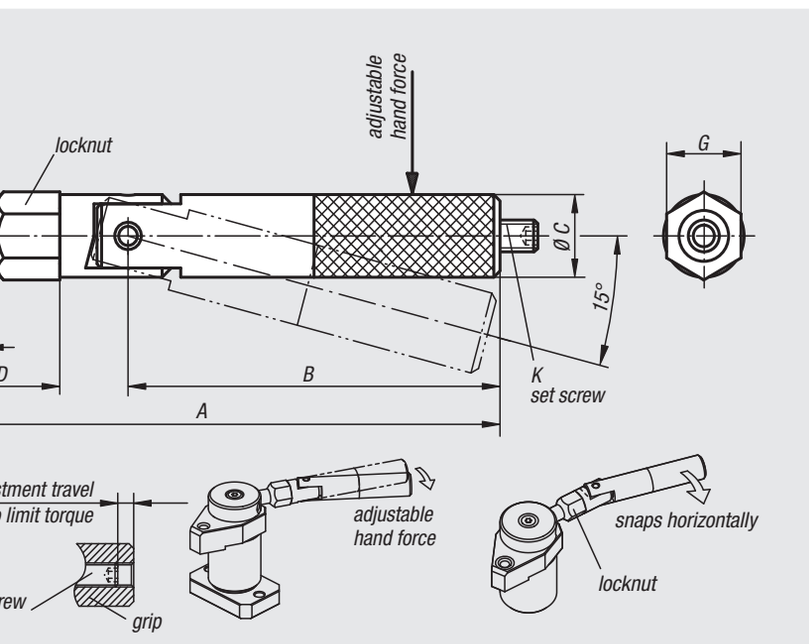
Sample order:
nlm 06355-05059

Order No.	A	B	C	D	E	SW
06355-05059	59	20	8	5	M5	7
06355-06089	89	25	10	6	M6	8

Handles screw-in

with torque limit





Material:
Carbon steel.

Version:
Hardened, black oxidised.

Sample order:
nlm 06357-05090

Note:
The desired clamping force can be set by using the set screw to alter the torque. The handle snaps 15° when the set torque is achieved.

Note:
Ensure that the handle is set to snap horizontally.

Order No.	A	B	C	D	E	F	G	H	J	K	Hand force FH N
06357-05090	89,5	60	13	18,5	6,5	8	12	5,5	M5	M5x16	0-150
06357-06119	119	84	15	23	8	10	14	6,5	M6	M6x20	0-200

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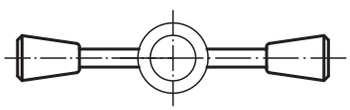
Handles

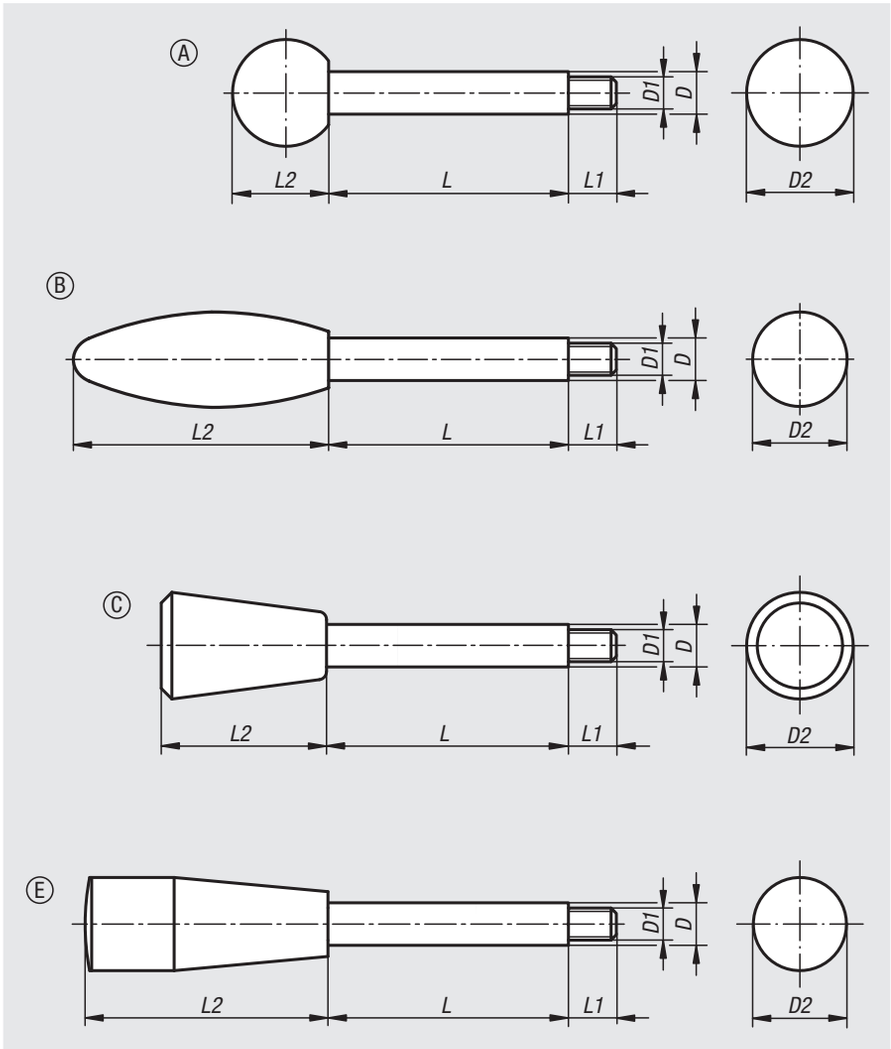


Material:
Knobs thermoset PF 31.
Rod steel 1.0718 or stainless steel 1.4305.

Version:
Thermoset black, high-gloss polished.
Steel black oxidised or bright stainless steel.

Sample order:
nlm 06360-208X35 (include length L)



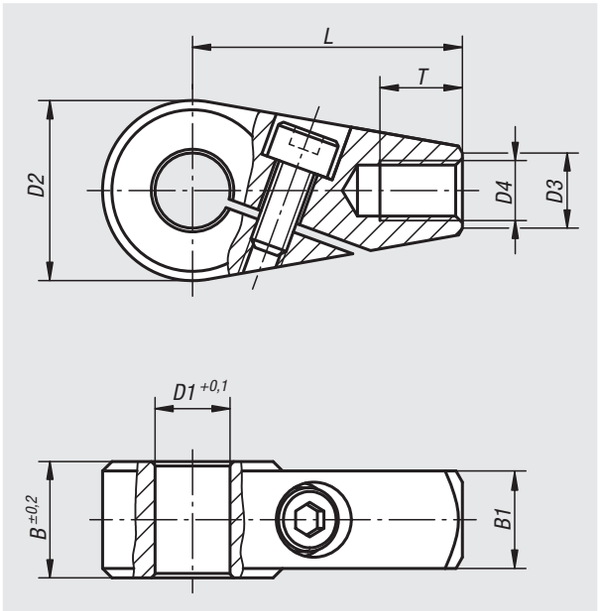


Order No. steel	Order No. stainless steel	Form	D	D1	D2	L	L1	L2
06360-208X	**06360-1208X**	A	8	M6	20	35/50/65	9	18
06360-210X	**06360-1210X**	A	10	M8	25	50/65/80/100	13	23
06360-212X	**06360-1212X**	A	12	M10	32	65/80/100/125	15	29
06360-214X	**06360-1214X**	A	14	M12	36	80/100/125/160	16	33
06360-708X	**06360-1708X**	B	8	M6	23	35/50/65	9	60
06360-710X	**06360-1710X**	B	10	M8	26	50/65/80/100	13	70
06360-712X	**06360-1712X**	B	12	M10	35	65/80/100/125	15	85
06360-714X	**06360-1714X**	B	14	M12	35	80/100/125/160	16	85
06360-408X	**06360-1408X**	C	8	M6	20	35/50/65	9	31
06360-410X	**06360-1410X**	C	10	M8	25	50/65/80/100	13	38
06360-412X	**06360-1412X**	C	12	M10	30	65/80/100/125	15	46
06360-414X	**06360-1414X**	C	14	M12	35	80/100/125/160	16	53
06360-608X	**06360-1608X**	E	8	M6	17	35/50/65	9	45
06360-610X	**06360-1610X**	E	10	M8	23	50/65/80/100	13	61
06360-612X	**06360-1612X**	E	12	M10	29	65/80/100/125	15	71
06360-614X	**06360-1614X**	E	14	M12	29	80/100/125/160	16	71

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Clamp hubs



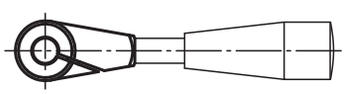


Material:
Carbon steel 1.1206.

Version:
Black oxidised.

Sample order:
nlm 06362-1012

Note:
Clamp hubs can be quickly and easily attached to shafts, adjusted in the proper operating position and then locked. For secure transmission of torque, shaft tolerance should not exceed h11.
At fastening thread (D2), handles can be screwed on.



Order No.	D1	D2	D3	D4	B	B1	L	T
06362-0810	10	24	10	M8	15,5	13	36	11
06362-0812	12	24	10	M8	15,5	13	36	11
06362-1012	12	28	12	M10	17,5	15	41	14
06362-1014	14	28	12	M10	17,5	15	41	14
06362-1214	14	32	14	M12	19,5	17	45	16
06362-1216	16	32	14	M12	19,5	17	45	16

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Tension levers

internal thread

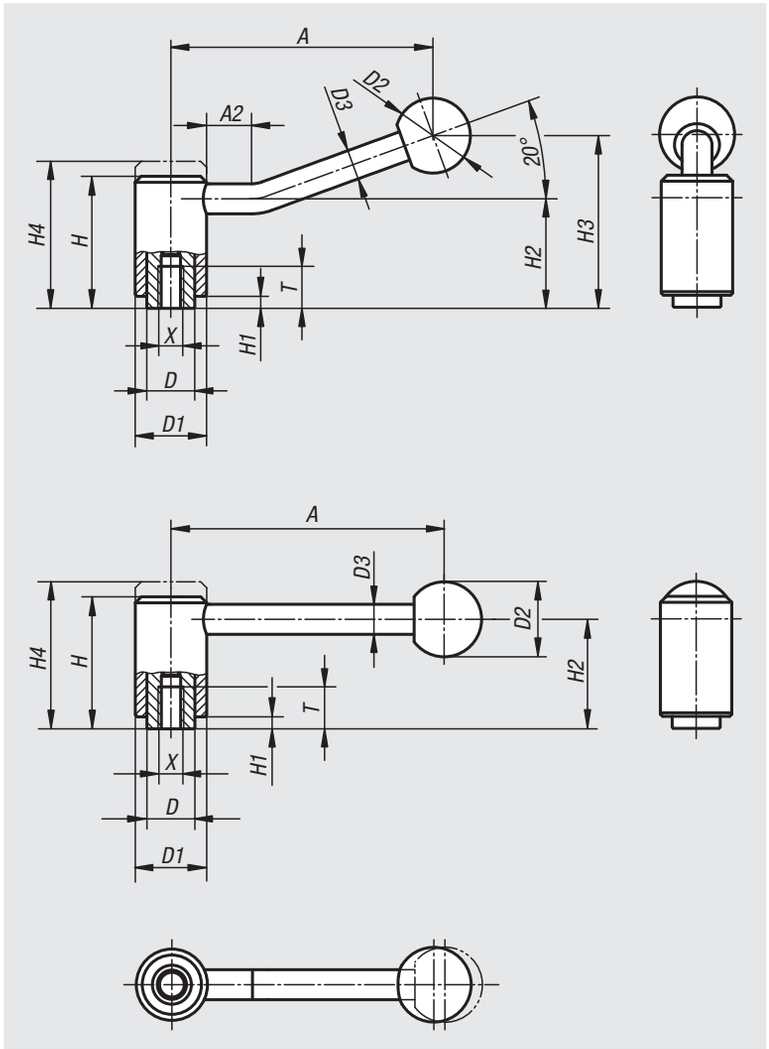


Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Powder-coated with fine texture, black.

Sample order:
nlm 06370-1082

On request:
Other threads and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.





Order No. 0°	Order No. 20°	X	T	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
06370-1082	**06370-1081**	M8	14	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	22
06370-1102	**06370-1101**	M10	14	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	22
06370-2102	**06370-2101**	M10	17	111/106	-/15	19	28	32	12	51,5	5,5	42	-/68,5	57,5	24
06370-2122	**06370-2121**	M12	17	111/106	-/15	19	28	32	12	51,5	5,5	42	-/68,5	57,5	24
06370-3122	**06370-3121**	M12	23	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	26
06370-3162	**06370-3161**	M16	23	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	26
06370-4162	**06370-4161**	M16	27	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	36
06370-4202	**06370-4201**	M20	27	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	36
06370-4242	**06370-4241**	M24	27	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	36

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Tension levers

internal thread, stainless steel

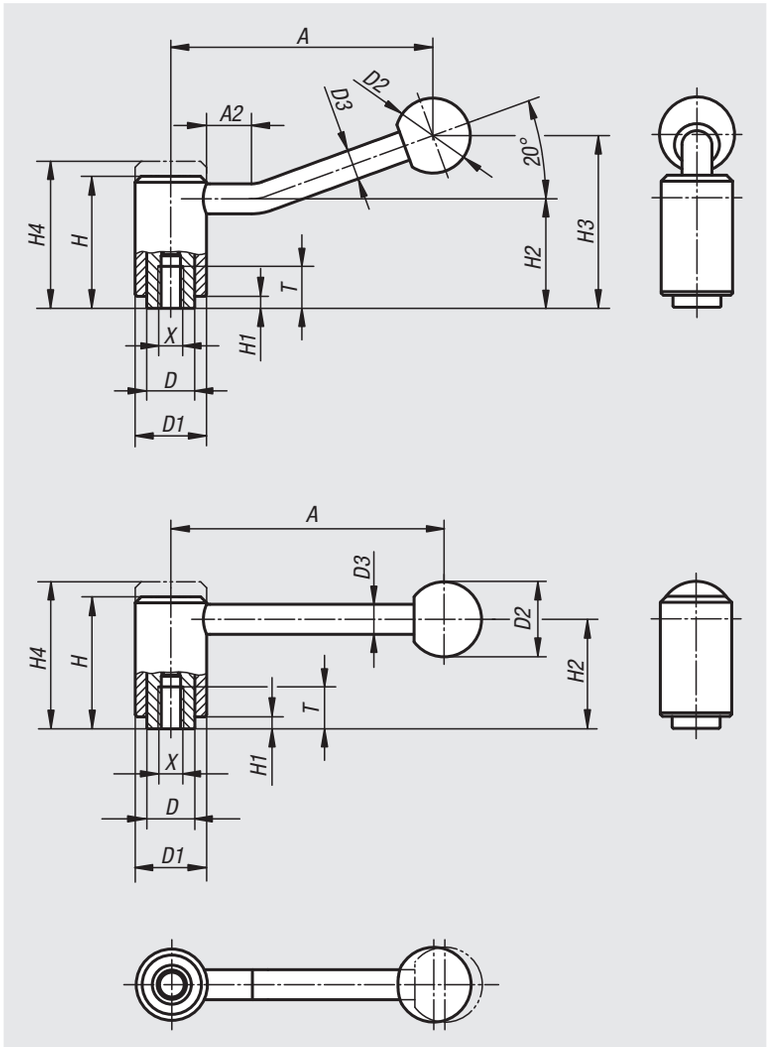


Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

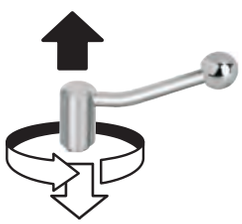
Version:
Stainless steel parts bright.
Ball knob polished.

Sample order:
nlm 06371-1082

On request:
Other threads and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.



lift to disengage



Order No. 0°	Order No. 20°	X	T	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
06371-1082	**06371-1081**	M8	14	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	22
06371-1102	**06371-1101**	M10	14	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	22
06371-2102	**06371-2101**	M10	17	111/106	-/15	19	28	32	12	51,5	5,5	42	-/68,5	57,5	24
06371-2122	**06371-2121**	M12	17	111/106	-/15	19	28	32	12	51,5	5,5	42	-/68,5	57,5	24
06371-3122	**06371-3121**	M12	23	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	26
06371-3162	**06371-3161**	M16	23	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	26
06371-4162	**06371-4161**	M16	27	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	36
06371-4202	**06371-4201**	M20	27	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	36

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Tension levers

external thread



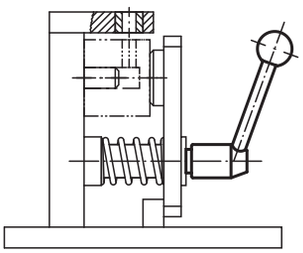
Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Powder-coated with fine texture, black.

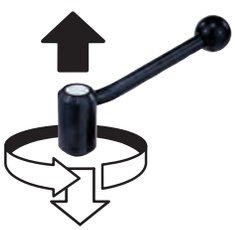
Sample order:
nlm 06380-1082X30 (include length L)

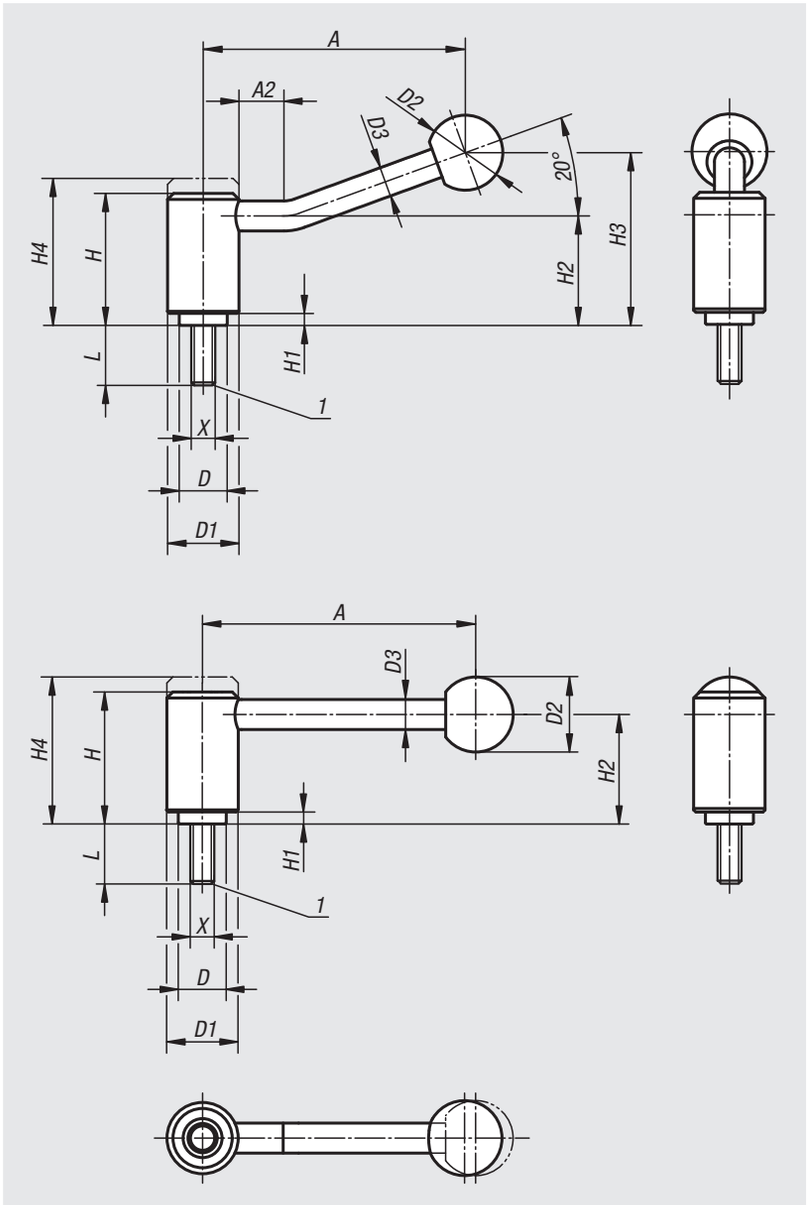
On request:
Other threads, screw lengths and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



lift to
disengage





Order No. 0°	Order No. 20°	X	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	L	No. of teeth
06380-1082X	**06380-1081X**	M8	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	15/20/25/30/40/50/60	22
06380-1102X	**06380-1101X**	M10	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	15/20/25/30/40/50/60	22
06380-1122X	**06380-1121X**	M12	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	15/20/25/30/40/50/60	22
06380-2122X	**06380-2121X**	M12	111/106	-/15	19	28	32	12	51,5	5,5	42	-/68,5	57,5	20/25/30/40/50/60	24
06380-3122X	**06380-3121X**	M12	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	20/25/30/40/50/60/70/80/90	26
06380-3162X	**06380-3161X**	M16	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	20/25/30/40/50/60/70/80/90	26
06380-4162X	**06380-4161X**	M16	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	30/40/50/60/70/80/90	36
06380-4202X	**06380-4201X**	M20	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	30/40/50/60/70/80/90	36
06380-4242X	**06380-4241X**	M24	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	30/40/50/60/70/80/90	36

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Tension levers

external thread, stainless steel



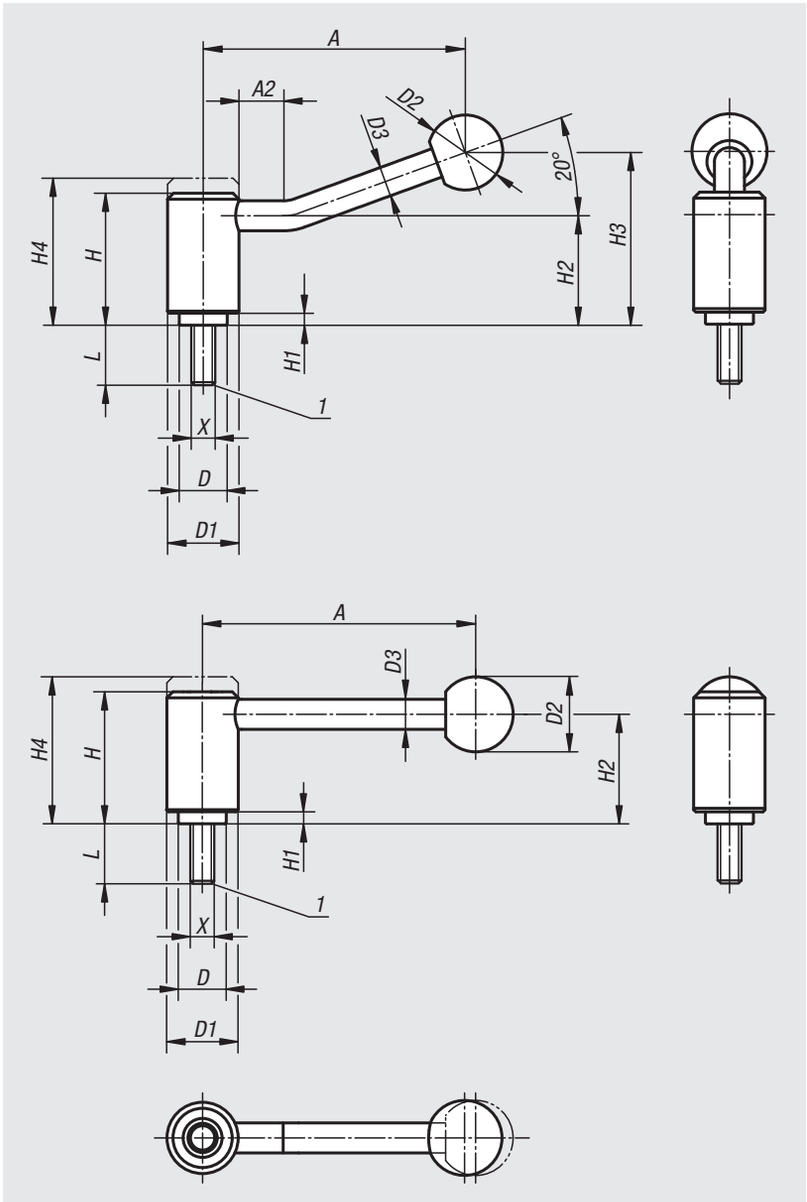
Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

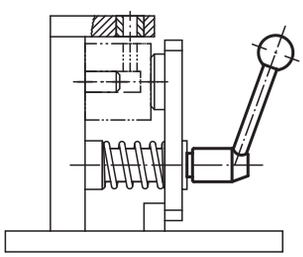
Version:
Stainless steel parts bright.
Ball knob polished.

Sample order:
nlm 06381-1082X30 (include length L)

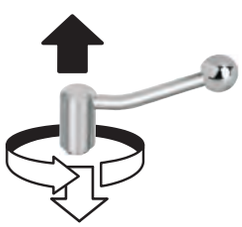
On request:
Other threads, screw lengths and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78





lift to
disengage



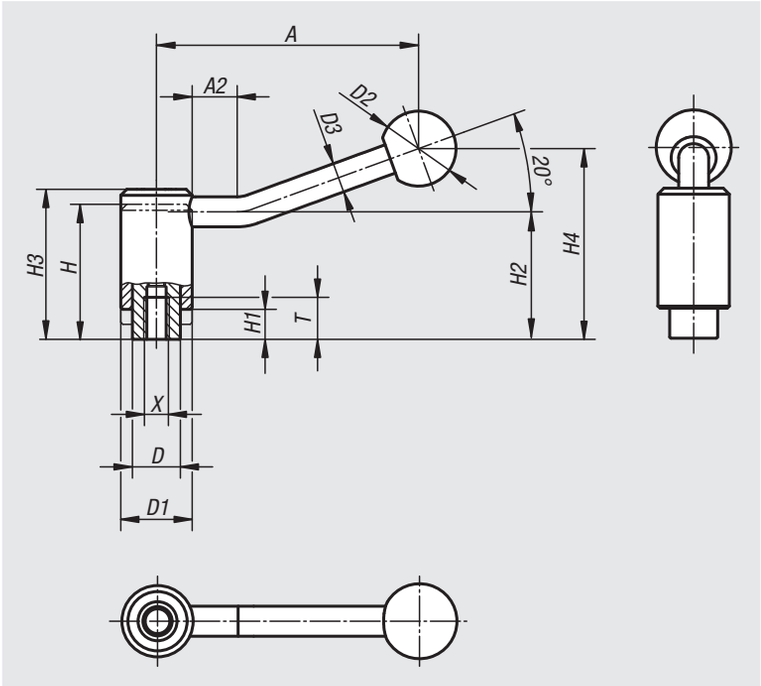
Order No. 0°	Order No. 20°	X	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	L	No. of teeth
06381-1082X	**06381-1081X**	M8	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	15/20/25/30/40/50/60	22
06381-1102X	**06381-1101X**	M10	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	15/20/25/30/40/50/60	22
06381-1122X	**06381-1121X**	M12	92/88	-/15	16	24	25	10	44,5	4,5	37	-/58,5	49,5	15/20/25/30/40/50/60	22
06381-2122X	**06381-2121X**	M12	111/106	-/15	19	28	32	12	51,5	5,5	42	-/68,5	57,5	20/25/30/40/50/60	24
06381-3122X	**06381-3121X**	M12	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	20/25/30/40/50/60/70/80/90	26
06381-3162X	**06381-3161X**	M16	134,5/128,5	-/15	23	33	32	13	58	6	47	-/81	65	20/25/30/40/50/60/70/80/90	26
06381-4162X	**06381-4161X**	M16	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	30/40/50/60/70/80/90	36
06381-4202X	**06381-4201X**	M20	134/128,5	-/15	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	30/40/50/60/70/80/90	36

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Tension levers safety

internal thread





Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Powder-coated with fine texture, black.

Sample order:
nlm 06382-1108

Method of operation:
Press the handle down until the teeth are fully engaged. The object can now be clamped or released. Spring pressure pushes the handle up disengaging the teeth and thereby restoring the safety function (handle can be rotated without engaging).

On request:
Special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.



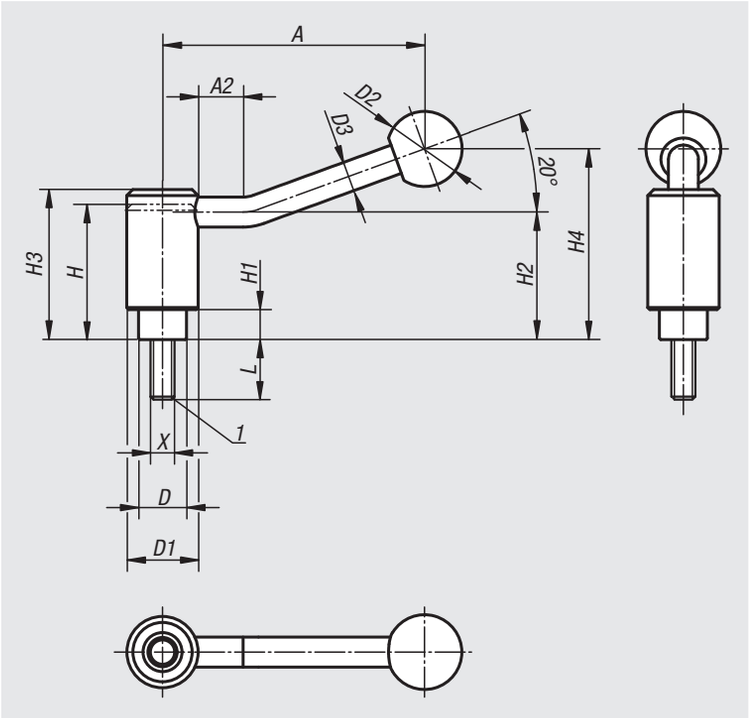
Order No.	X	T	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
06382-1108	M8	14	88	15	16	24	25	10	44,5	9,5	49,3	49,5	63,5	22
06382-1110	M10	14	88	15	16	24	25	10	44,5	9,5	49,3	49,5	63,5	22
06382-1210	M10	17	106	15	19	28	32	12	51	10,5	56,3	56,5	74	24
06382-1212	M12	17	106	15	19	28	32	12	51	10,5	56,3	56,5	74	24
06382-1312	M12	23	128,5	15	23	33	32	13	57,5	12,5	64,5	64,5	87,5	26
06382-1316	M16	23	128,5	15	23	33	32	13	57,5	12,5	64,5	64,5	87,5	26

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Tension levers safety

external thread





Material:
Steel parts grade 5.8.
Ball knob black plastic.

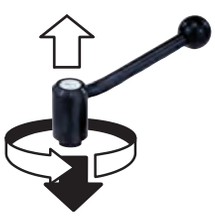
Version:
Powder-coated with fine texture, black.

Sample order:
nlm 06383-1108X30 (include length L)

Method of operation:
Press the handle down until the teeth are fully engaged. The object can now be clamped or released. Spring pressure pushes the handle up disengaging the teeth and thereby restoring the safety function (handle can be rotated without engaging).

On request:
Other threads, screw lengths and special versions. Dimensions “H1” and “A” available in other lengths at extra charge.

press to
engage
(safety function)



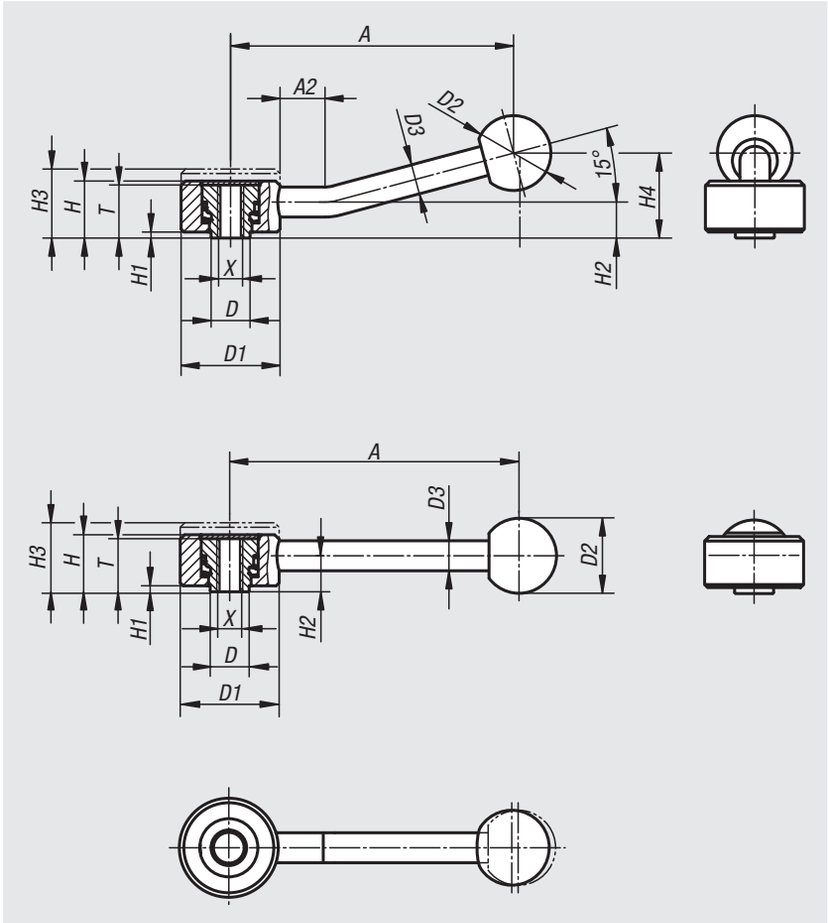
Order No.	X	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth	L
06383-1108X	M8	88	15	16	24	25	10	44,5	9,5	49,3	49,5	63,5	22	20/25/30/40/50/60
06383-1110X	M10	88	15	16	24	25	10	44,5	9,5	49,3	49,5	63,5	22	20/25/30/40/50/60
06383-1112X	M12	88	15	16	24	25	10	44,5	9,5	49,3	49,5	63,5	22	20/25/30/40/50/60
06383-1212X	M12	106	15	19	28	32	12	51	10,5	56,3	56,5	74	24	20/25/30/40/50/60
06383-1312X	M12	128,5	15	23	33	32	13	57,5	12,5	64,5	64,5	87,5	26	25/30/40/50/60
06383-1316X	M16	128,5	15	23	33	32	13	57,5	12,5	64,5	64,5	87,5	26	25/30/40/50/60

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Tension levers flat

internal thread



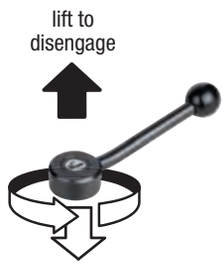


Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Black oxidised.

Sample order:
nlm 06390-1061

On request:
Other threads and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.



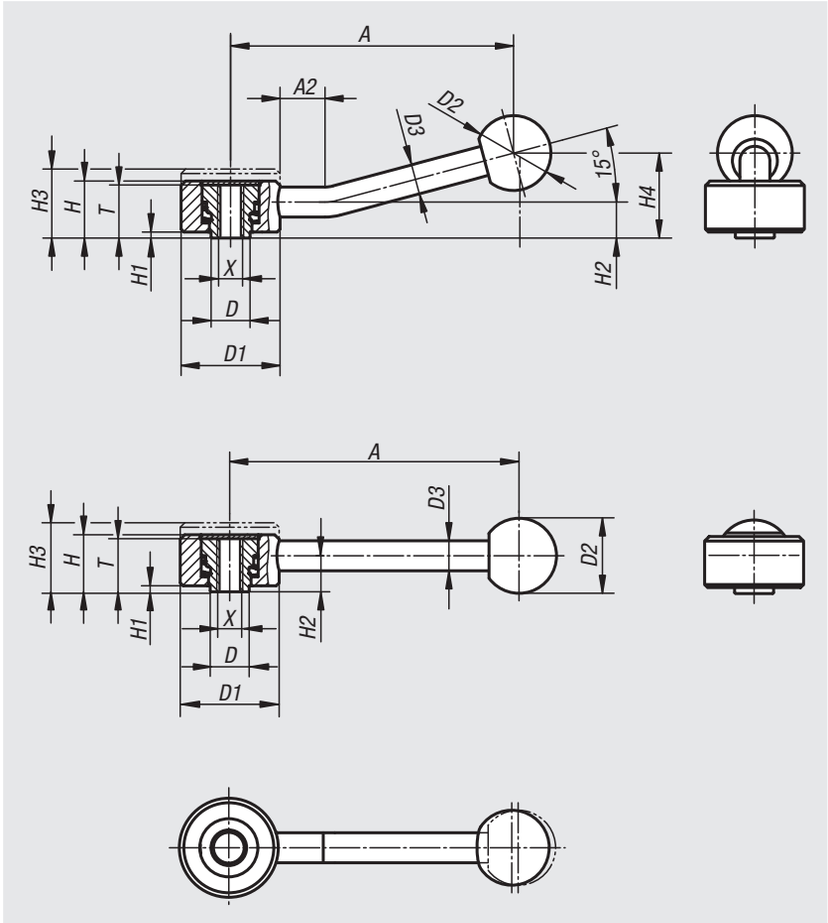
Order No. 0°	Order No. 15°	X	T	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
06390-1061	**06390-1062**	M6	18	102/100	-/15	13,5	33	25	10	19	2	12	23	-/29	26
06390-1081	**06390-1082**	M8	18	102/100	-/15	13,5	33	25	10	19	2	12	23	-/29	26
06390-2101	**06390-2102**	M10	21	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	30
06390-2121	**06390-2122**	M12	21	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	30
06390-3121	**06390-3122**	M12	27	148/145	-/15	23	45	37	14	28	2	17	33	-/48	36
06390-3161	**06390-3162**	M16	27	148/145	-/15	23	45	37	14	28	2	17	33	-/48	36

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Tension levers flat

internal thread, stainless steel





Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Steel parts bright.

Sample order:
nlm 06391-1081

On request:
Other threads and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.



Order No. 0°	Order No. 15°	X	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth	T
06391-1081	**06391-1082**	M8	102/100	-/15	13,5	33	25	10	19	2	12	23	-/29	26	18
06391-2101	**06391-2102**	M10	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	30	21
06391-2121	**06391-2122**	M12	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	30	21
06391-3161	**06391-3162**	M16	148/145	-/15	23	45	37	14	28	2	17	33	-/48	36	27

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Tension levers flat

external thread



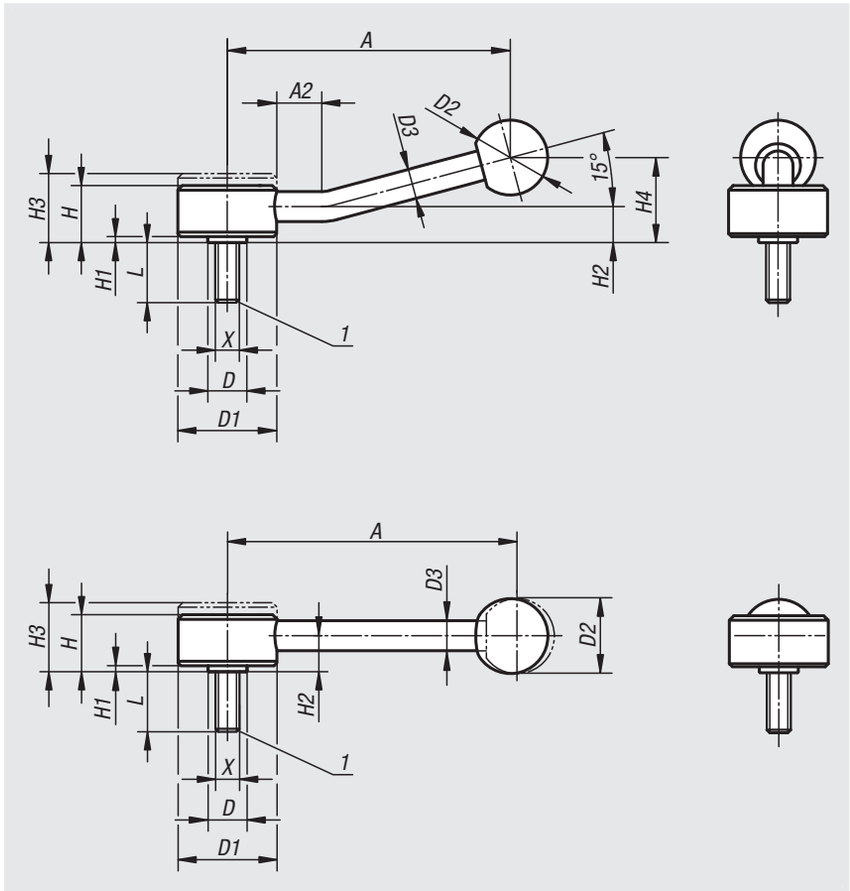
Material:
Steel parts grade 5.8.
Ball knob black plastic.

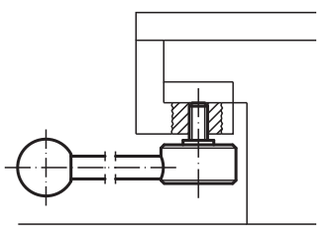
Version:
Black oxidised.

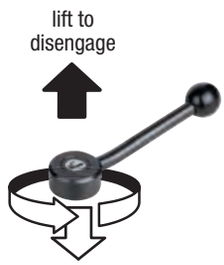
Sample order:
nlm 06400-1081X30 (include length L)

On request:
Other threads, screw lengths and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78







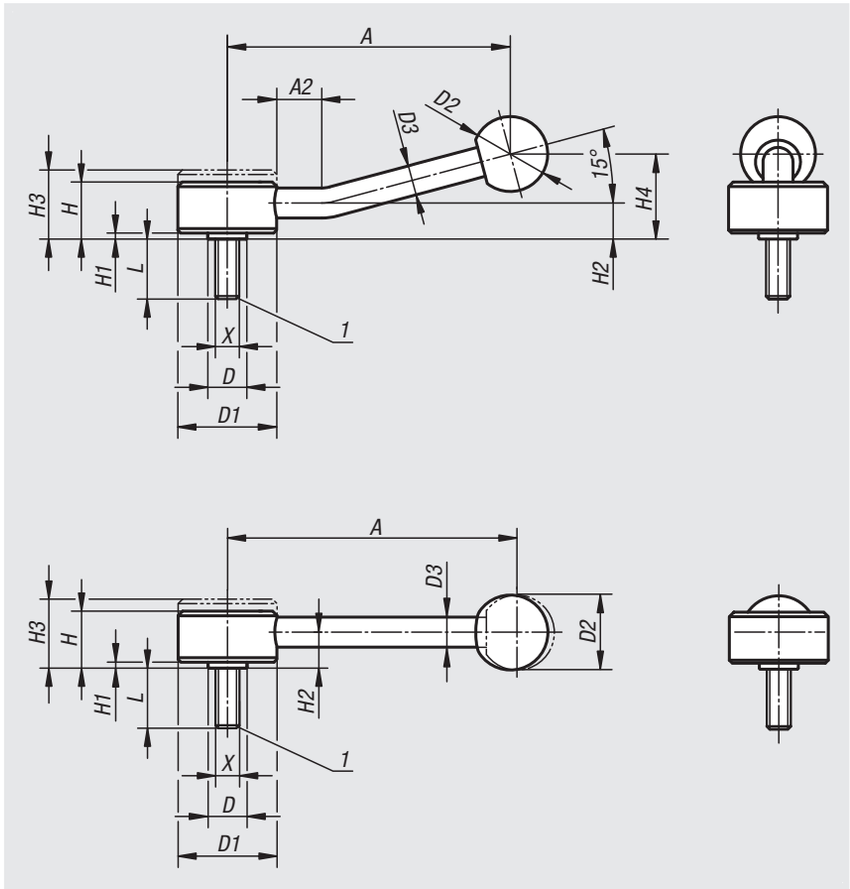
Order No. 0°	Order No. 15°	X	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	L	No. of teeth
06400-1081X	**06400-1082X**	M8	102/100	-/15	13,5	33	25	10	19	2	12	23	-/29	15/20/25/30/40/50/60	20
06400-1101X	**06400-1102X**	M10	102/100	-/15	13,5	33	25	10	19	2	12	23	-/29	15/20/25/30/40/50/60	20
06400-2101X	**06400-2102X**	M10	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	20/25/30/40/50/60	24
06400-2121X	**06400-2122X**	M12	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	20/25/30/40/50/60	24
06400-3121X	**06400-3122X**	M12	148/145	-/15	23	45	37	14	28	2	17	33	-/48	20/25/30/40/50/60	26
06400-3161X	**06400-3162X**	M16	148/145	-/15	23	45	37	14	28	2	17	33	-/48	20/25/30/40/50/60	26

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Tension levers flat

external thread, stainless steel





Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Steel parts bright.

Sample order:
nlm 06401-1081X40 (include length L)

On request:
Other threads, screw lengths and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



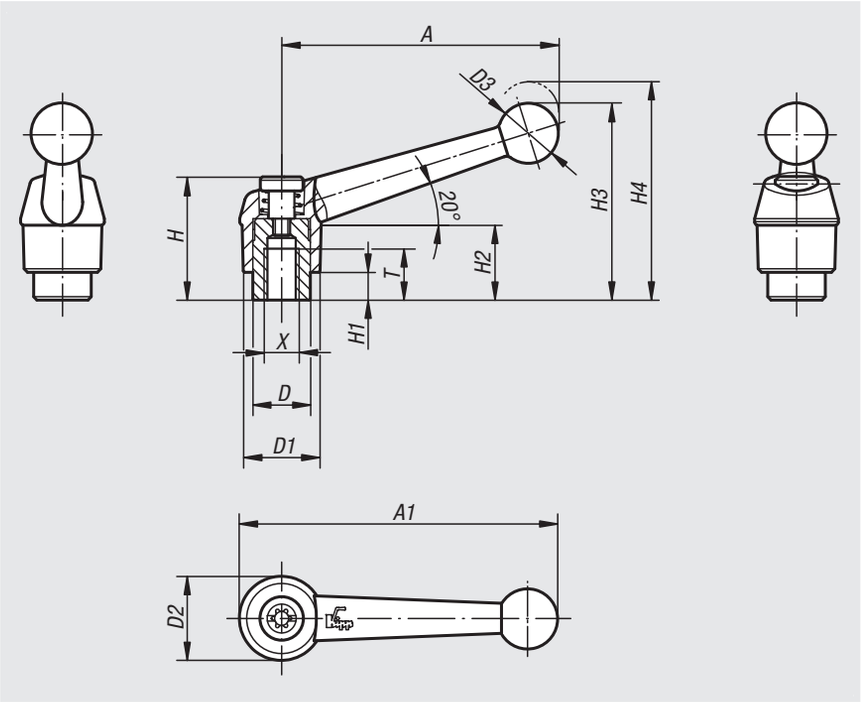
Order No. 0°	Order No. 15°	X	A=handle length	A2	D	D1	D2	D3	H	H1	H2	H3	H4	L	No. of teeth
06401-1081X	**06401-1082X**	M8	102/100	-/15	13,5	33	25	10	19	2	12	23	-/29	30/40/50	26
06401-2101X	**06401-2102X**	M10	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	30/40/50/60	30
06401-2121X	**06401-2122X**	M12	131/127	-/15	19	41	30	12	22	2	13,5	26	-/38	30/40/50/60	30
06401-3161X	**06401-3162X**	M16	148/145	-/15	23	45	37	14	28	2	17	33	-/48	40/50/60	36

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Clamping levers

internal thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle powder-coated.
Steel parts black oxidised.

Sample order:
nlm 06410-4103

Note:
Standard colours are:
black satin finish, silver metallic.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



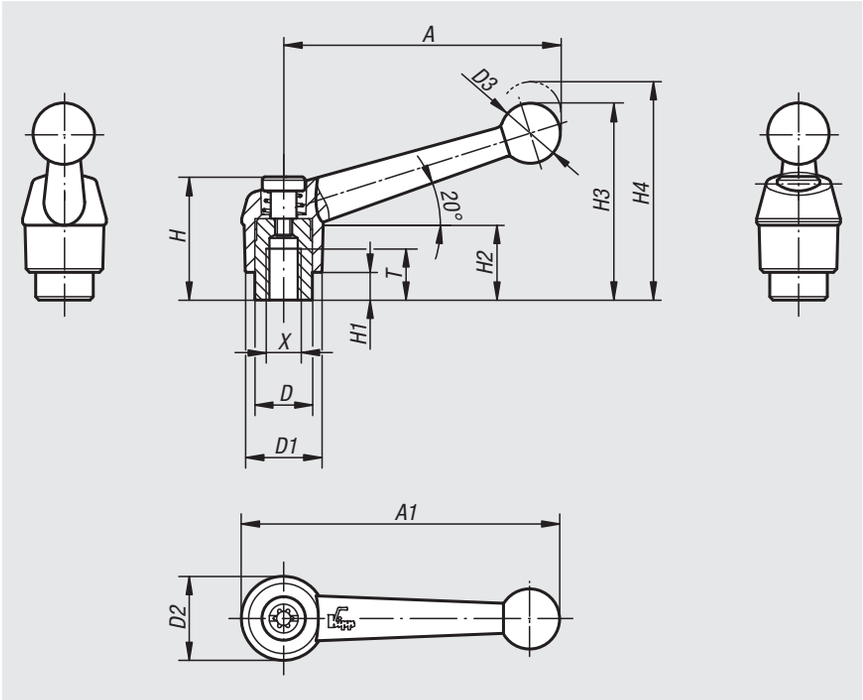
Order No. black	Order No. silver metallic	X	A	A1	T	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
06410-1041	**06410-1043**	M4	39	46	9	10	13	14	10,5	24,5	4	15	32,5	35,5	16
06410-1051	**06410-1053**	M5	39	46	9	10	13	14	10,5	24,5	4	15	32,5	35,5	16
06410-1061	**06410-1063**	M6	39	46	9	10	13	14	10,5	24,5	4	15	32,5	35,5	16
06410-2061	**06410-2063**	M6	64	73	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	20
06410-2081	**06410-2083**	M8	64	73	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	20
06410-3081	**06410-3083**	M8	79	90	14	16	21	22	17	37	10	23	57,5	61,5	22
06410-3101	**06410-3103**	M10	79	90	14	16	21	22	17	37	10	23	57,5	61,5	22
06410-4101	**06410-4103**	M10	95	108	17	19	25	26	19	42,5	10	26	67	72	24
06410-4121	**06410-4123**	M12	95	108	17	19	25	26	19	42,5	10	26	67	72	24
06410-5121	**06410-5123**	M12	110	126	23	23	30	31	22	49	12	32	79	84	26
06410-5161	**06410-5163**	M16	110	126	23	23	30	31	22	49	12	32	79	84	26

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Clamping levers

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle powder-coated.
Stainless steel parts bright.

Sample order:
nlm 06411-2061

Note:
Standard colours are:
black satin finish, silver metallic.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to
disengage



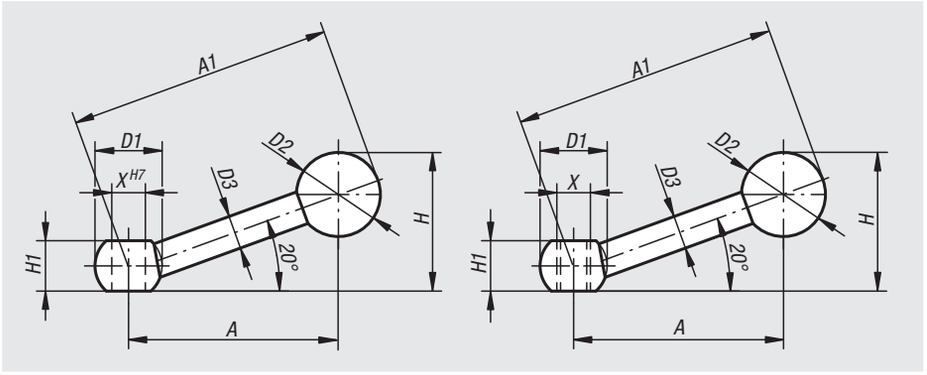
Order No. black	Order No. silver metallic	X	A	A1	T	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
06411-1041	**06411-1043**	M4	39	46	9	10	13	14	10,5	24,5	4	15	32,5	35,5	16
06411-1051	**06411-1053**	M5	39	46	9	10	13	14	10,5	24,5	4	15	32,5	35,5	16
06411-1061	**06411-1063**	M6	39	46	9	10	13	14	10,5	24,5	4	15	32,5	35,5	16
06411-2061	**06411-2063**	M6	64	73	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	20
06411-2081	**06411-2083**	M8	64	73	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	20
06411-3081	**06411-3083**	M8	79	90	14	16	21	22	17	37	10	23	57,5	61,5	22
06411-3101	**06411-3103**	M10	79	90	14	16	21	22	17	37	10	23	57,5	61,5	22
06411-4101	**06411-4103**	M10	95	108	17	19	25	26	19	42,5	10	26	67	72	24
06411-4121	**06411-4123**	M12	95	108	17	19	25	26	19	42,5	10	26	67	72	24
06411-5121	**06411-5123**	M12	110	126	23	23	30	31	22	49	12	32	79	84	26
06411-5161	**06411-5163**	M16	110	126	23	23	30	31	22	49	12	32	79	84	26

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Ball handles

DIN 6337





Material:
Steel.
Ball knob thermoset.

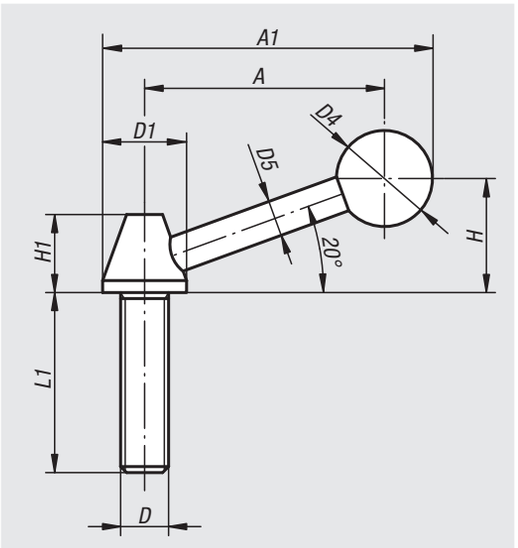
Version:
Black oxidised, ball knob black.

Sample order:
nlm 06420-112

Order No. reamed hole	Order No. internal thread	X	A=handle length	A1	D1	D2	D3	H	H1
06420-108	**06420-208**	8/M8	50	63	16	20	8	33	12
06420-110	**06420-210**	10/M10	66	80	20	20	9	40	14,5
06420-112	**06420-212**	12/M12	82,5	100	25	25	11	50	18,5
06420-116	**06420-216**	16/M16	103	125	32	32	15	63	24

Clamping levers





Material:
Steel.
Ball knob thermoset.

Version:
steel black oxidised.
Ball knob black.

Sample order:
nlm 06430-112

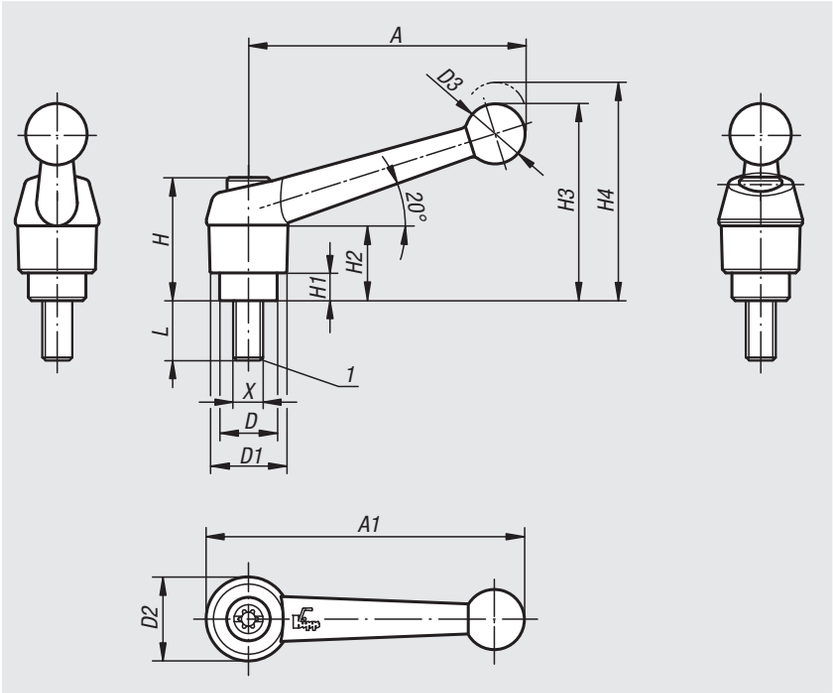
Order No.	A	A1	D	D1	D4	D5	H	H1	L1
06430-108	48	55	M8	14	16	6	19	13	45
06430-110	64	73	M10	18	20	6	24	17	60
06430-112	97	108	M12	22	30	10	42	19	70
06430-116	126	138,5	M16	25	32	12	55	23	75

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Clamping levers

external thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle powder-coated.
Steel black oxidised.

Sample order:
nlm 06430-1051X20 (include length L)

Note:
Standard colours are:
black satin finish, silver metallic.

Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



Specifications

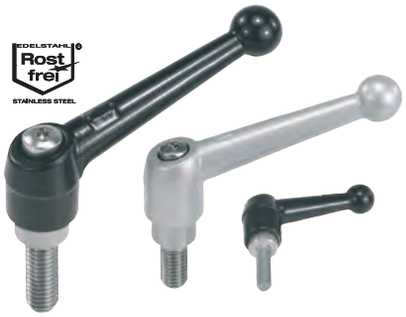
Size	X	A	A1	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
1	M5/M6	39	46	10	13	14	10,5	24,5	4	15	32,5	35,5	16
2	M6/M8/M10	64	73	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	20
3	M8/M10	79	90	16	21	22	17	37	10	23	57,5	61,5	22
4	M10/M12	95	108	19	25	26	19	42,5	10	26	67	72	24
5	M12/M16	110	126	23	30	31	22	49	12	32	79	84	26

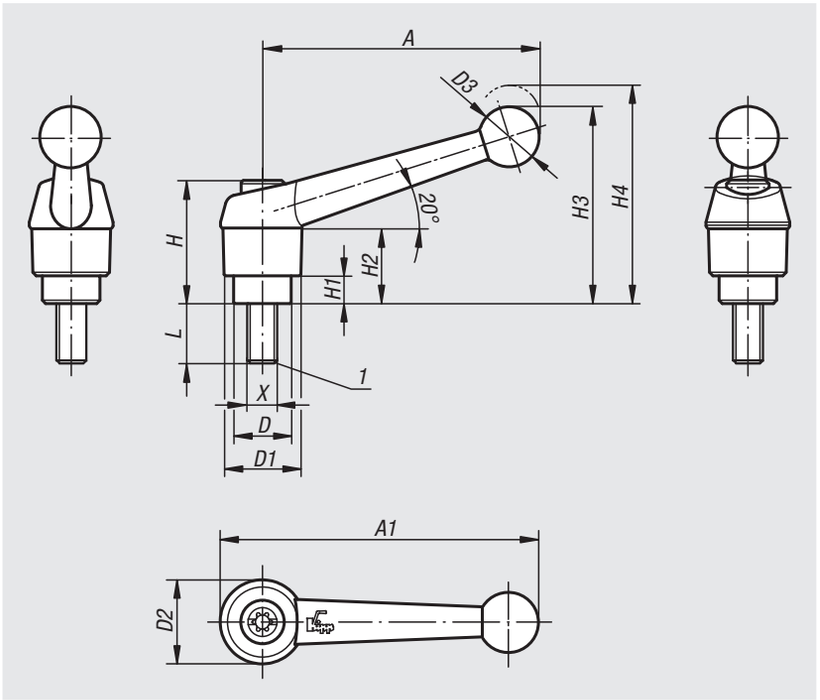
Order No. black	Order No. silver metallic	Size	X	L
06430-1051X	**06430-1053X**	1	M5	10/15/20/25/30/35/40/45/50
06430-1061X	**06430-1063X**	1	M6	10/15/20/25/30/35/40/45/50
06430-2061X	**06430-2063X**	2	M6	15/20/25/30/35/40/45/50/55/60
06430-2081X	**06430-2083X**	2	M8	15/20/25/30/35/40/45/50/55/60
06430-2101X	**06430-2103X**	2	M10	15/20/25/30/35/40/45/50/55/60
06430-3081X	**06430-3083X**	3	M8	15/20/25/30/35/40/45/50/55/60
06430-3101X	**06430-3103X**	3	M10	15/20/25/30/35/40/45/50/55/60
06430-4101X	**06430-4103X**	4	M10	20/25/30/35/40/45/50/55/60/70/80/90
06430-4121X	**06430-4123X**	4	M12	20/25/30/35/40/45/50/55/60/70/80/90
06430-5121X	**06430-5123X**	5	M12	25/30/35/40/45/50/55/60/70/80/90
06430-5161X	**06430-5163X**	5	M16	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers

external thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle powder-coated.
Stainless steel bright.

Sample order:
nlm 06431-1051X20 (include length L)

Note:
Standard colours are:
black satin finish, silver metallic.

Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



Specifications

Size	X	A	A1	D	D1	D2	D3	H	H1	H2	H3	H4	No. of teeth
1	M5/M6	39	46	10	13	14	10,5	24,5	4	15	32,5	35,5	16
2	M6/M8/M10	64	73	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	20
3	M8/M10	79	90	16	21	22	17	37	10	23	57,5	61,5	22
4	M12	95	108	19	25	26	19	42,5	10	26	67	72	24
5	M16	110	126	23	30	31	22	49	12	32	79	84	26

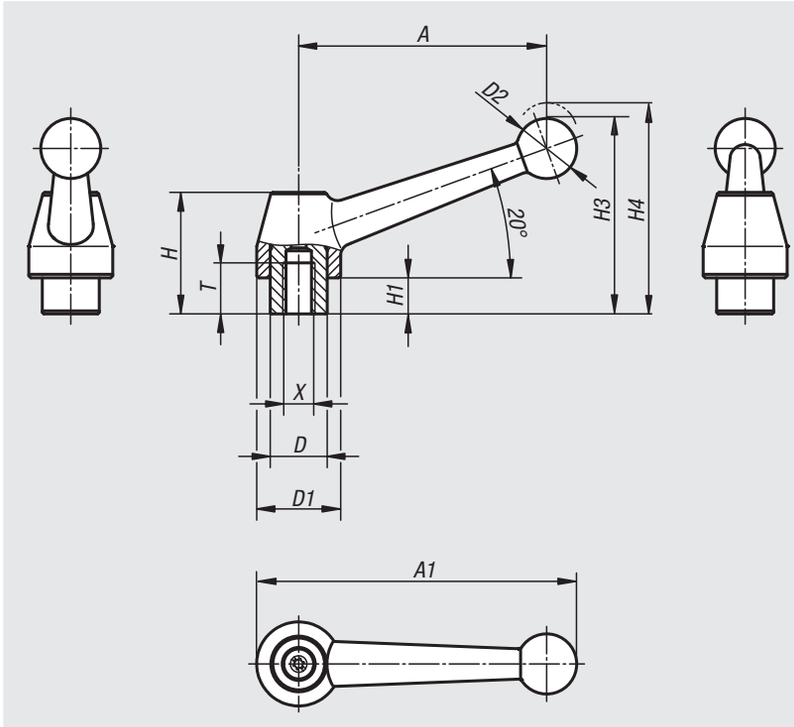
Order No. black	Order No. silver metallic	Size	X	L
06431-1051X	**06431-1053X**	1	M5	10/15/20/25
06431-1061X	**06431-1063X**	1	M6	10/15/20/25/30/40/50
06431-2061X	**06431-2063X**	2	M6	15/20/25/30/40/50/60
06431-2081X	**06431-2083X**	2	M8	15/20/25/30/40/50/60
06431-2101X	**06431-2103X**	2	M10	20/25/30/40/50/60
06431-3081X	**06431-3083X**	3	M8	20/25/30/40/50/60
06431-3101X	**06431-3103X**	3	M10	20/25/30/40/50/60
06431-4121X	**06431-4123X**	4	M12	25/30/40/50/60
06431-5161X	**06431-5163X**	5	M16	30/40/50/60

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Clamping levers

internal thread, steel





Material:
Handle steel 1.0401.
All other steel parts grade 5.8.

Version:
Handle painted silver-grey hammer-tone.
Steel parts black oxidised.

Sample order:
nlm 06440-108

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



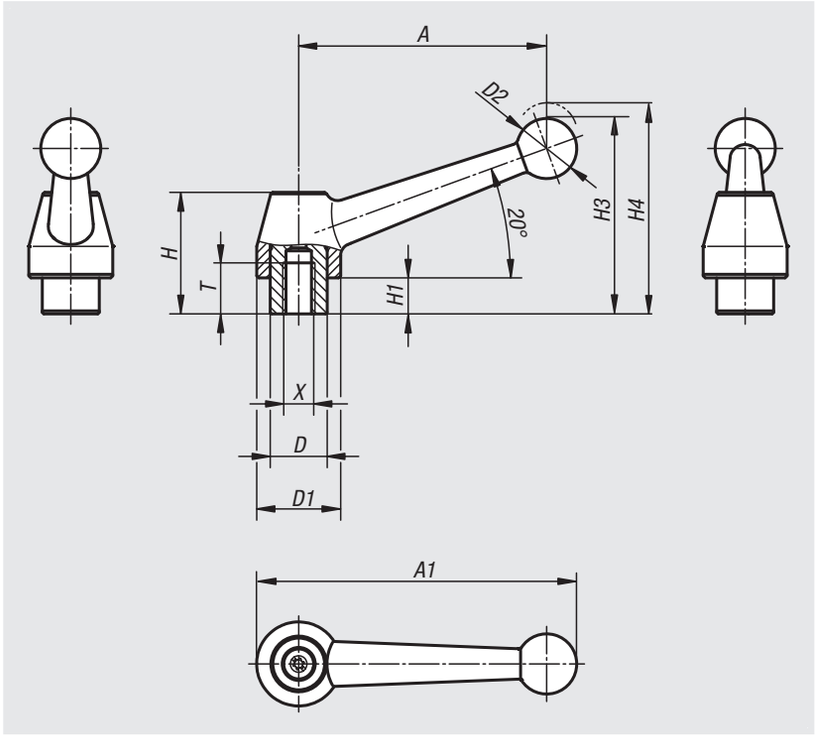
Order No.	Main material	X	A	A1	T	D	D1	D2	H	H1	H3	H4	No. of teeth
06440-108	steel	M8	83	107	17	19	28	20	40,5	12	65	68,5	24
06440-110	steel	M10	83	107	17	19	28	20	40,5	12	65	68,5	24
06440-112	steel	M12	83	107	17	19	28	20	40,5	12	65	68,5	24
06440-212	steel	M12	108	138	23	23	35	25	51,5	12	79,5	84	26
06440-216	steel	M16	108	138	23	23	35	25	51,5	12	79,5	84	26
06440-316	steel	M16	132	168	27	30	43	30	60	12	93	97,5	36
06440-320	steel	M20	132	168	27	30	43	30	60	12	93	97,5	36

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Clamping levers

internal thread, stainless steel





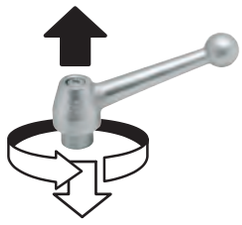
Material:
Handle stainless steel 1.4308.
All other metal parts stainless steel 1.4305.

Version:
Stainless steel grip electropolished.
Steel parts bright.

Sample order:
nlm 06440-1108

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



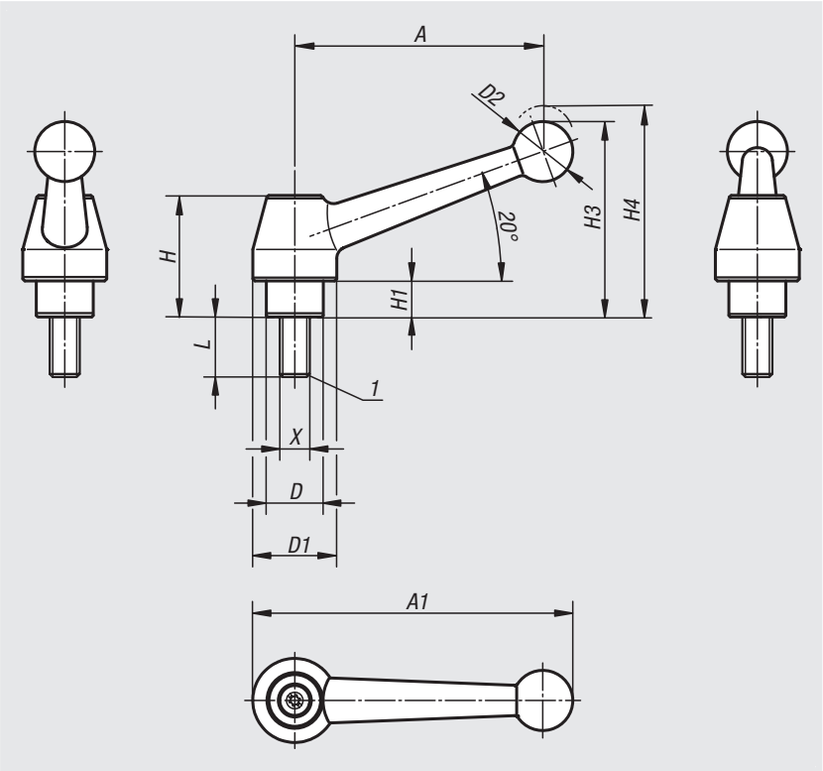
Order No.	Main material	X	A	A1	T	D	D1	D2	H	H1	H3	H4	No. of teeth
06440-1108	stainless steel	M8	83	107	17	19	28	20	40,5	12	65	68,5	24
06440-1110	stainless steel	M10	83	107	17	19	28	20	40,5	12	65	68,5	24
06440-1112	stainless steel	M12	83	107	17	19	28	20	40,5	12	65	68,5	24

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Clamping levers

external thread





Material:
Handle steel 1.0401.
All other steel parts grade 5.8.

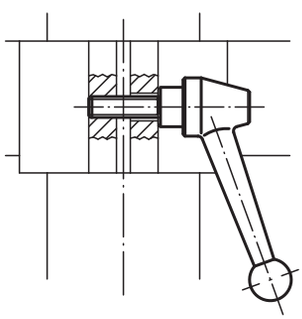
Version:
Handle painted silver-grey hammer-tone.
Steel parts black oxidised.

Sample order:
nlm 06441-110X30 (include length L)

Note:
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78





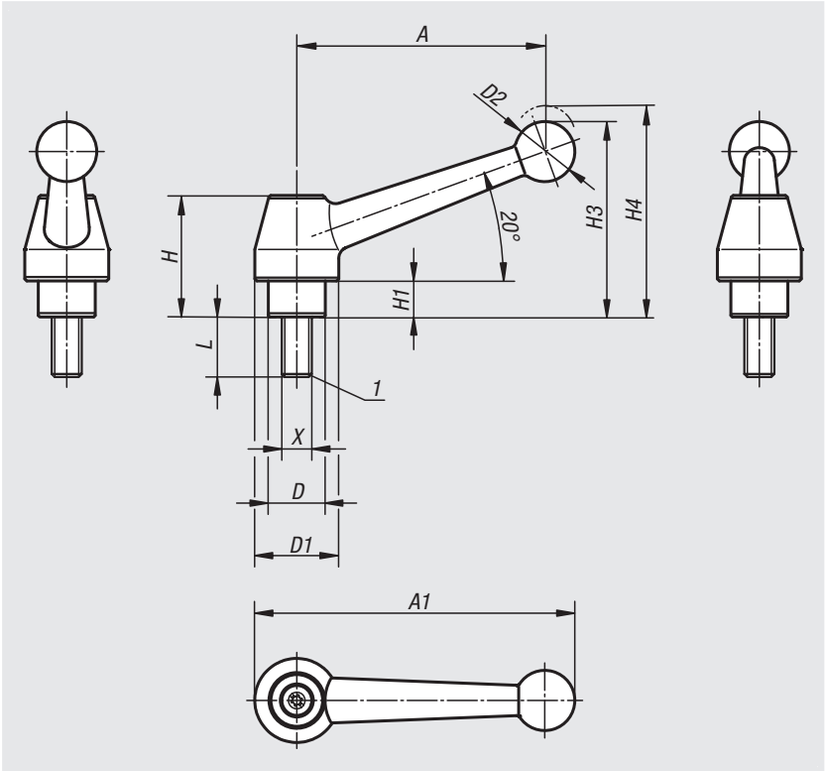
Order No.	Main material	X	A	A1	D	D1	D2	H	H1	H3	H4	No. of teeth	L
06441-110X	steel	M10	83	107	19	28	20	40,5	12	65	68,5	24	20/25/30/35/40/45/50/55/60/70/80/90
06441-112X	steel	M12	83	107	19	28	20	40,5	12	65	68,5	24	20/25/30/35/40/45/50/55/60/70/80/90
06441-212X	steel	M12	108	138	23	35	25	51,5	12	79,5	84	26	25/30/35/40/45/50/55/60/70/80/90
06441-216X	steel	M16	108	138	23	35	25	51,5	12	79,5	84	26	25/30/35/40/45/50/55/60/70/80/90
06441-316X	steel	M16	132	168	30	43	30	60	12	93	97,5	36	30/40/50/60/70/80/90
06441-320X	steel	M20	132	168	30	43	30	60	12	93	97,5	36	30/40/50/60/70/80/90

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Clamping levers

external thread, stainless steel





Material:
Handle stainless steel 1.4308.
All other metal parts stainless steel 1.4305.

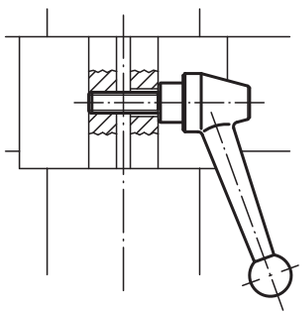
Version:
Stainless steel grip electropolished.
Steel parts bright.

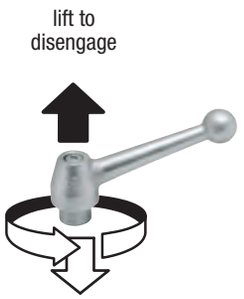
Sample order:
nlm 06441-1110X30 (include length L)

Note:
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78





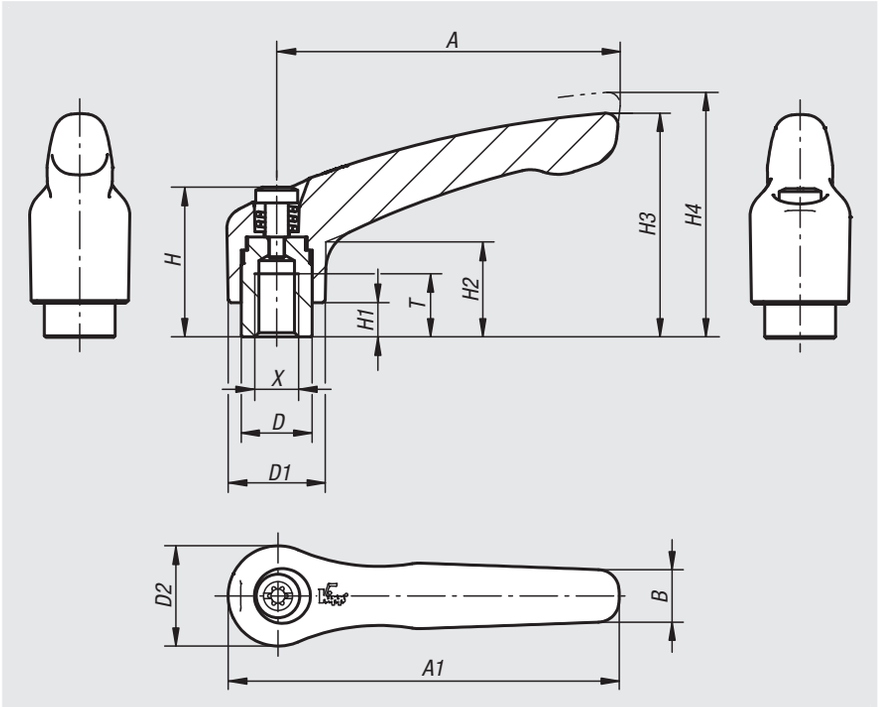
Order No.	Main material	X	A	A1	D	D1	D2	H	H1	H3	H4	No. of teeth	L
06441-1110X	stainless steel	M10	83	107	19	28	20	40,5	12	65	68,5	24	25/30/40/50/60
06441-1112X	stainless steel	M12	83	107	19	28	20	40,5	12	65	68,5	24	25/30/40/50/60

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Clamping levers

internal thread, steel





Material:
Handle steel 1.0401.
All other steel parts grade 5.8.

Version:
Handle powder-coated, fine-textured structure.
Steel parts black oxidised.

Sample order:
nlm 06442-1051

Note:
Standard colours are:
black or ruby red RAL 3003.

lift to disengage



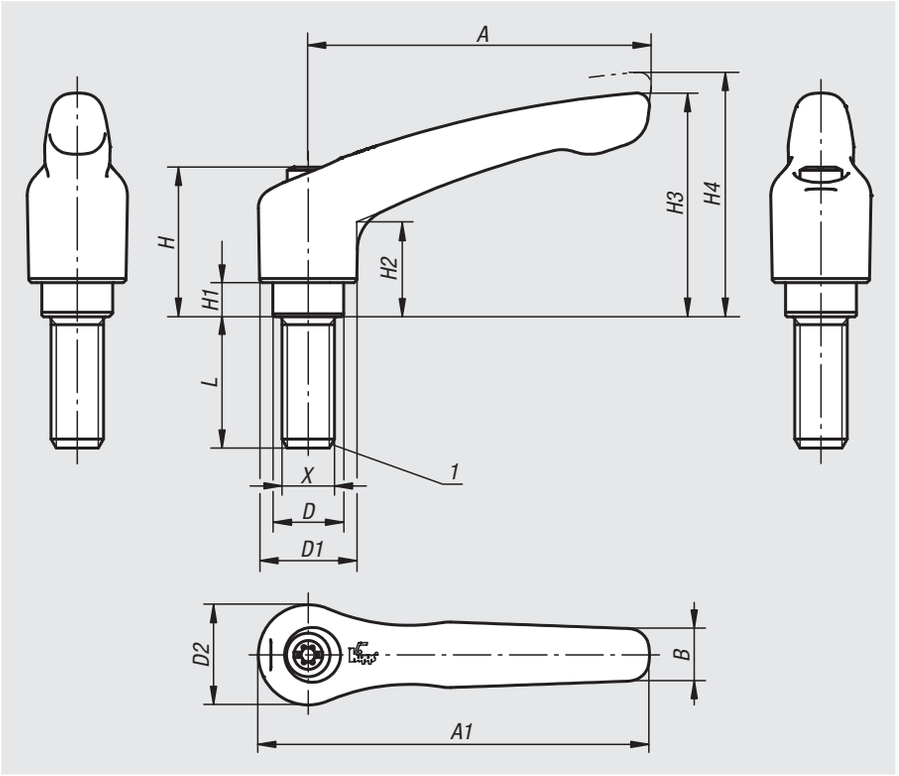
Order No. black	Order No. ruby red	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06442-1041	**06442-10427**	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06442-1051	**06442-10527**	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06442-1061	**06442-10627**	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06442-2061	**06442-20627**	M6	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06442-2081	**06442-20827**	M8	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06442-3081	**06442-30827**	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06442-3101	**06442-31027**	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06442-4101	**06442-41027**	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06442-4121	**06442-41227**	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06442-5121	**06442-51227**	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06442-5161	**06442-51627**	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26

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Clamping levers

external thread, steel





Material:
Handle steel 1.0401.
All other steel parts grade 5.8.

Version:
Handle powder-coated, fine-textured structure.
Steel parts black oxidised.

Sample order:
nlm 06443-1051X20

Note:
Standard colours are:
black or ruby red RAL 3003.

Where L ≥ 60 mm the thread length is always 60 mm.

Drawing reference:
1) flat point DIN 78

lift to disengage



Specifications

Size	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth
1	M5/M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16
2	M6/M8/M10	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20
3	M8/M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22
4	M10/M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24
5	M12/M16	110	126	15	23	31	32	49	12	31,5	73	77,5	26

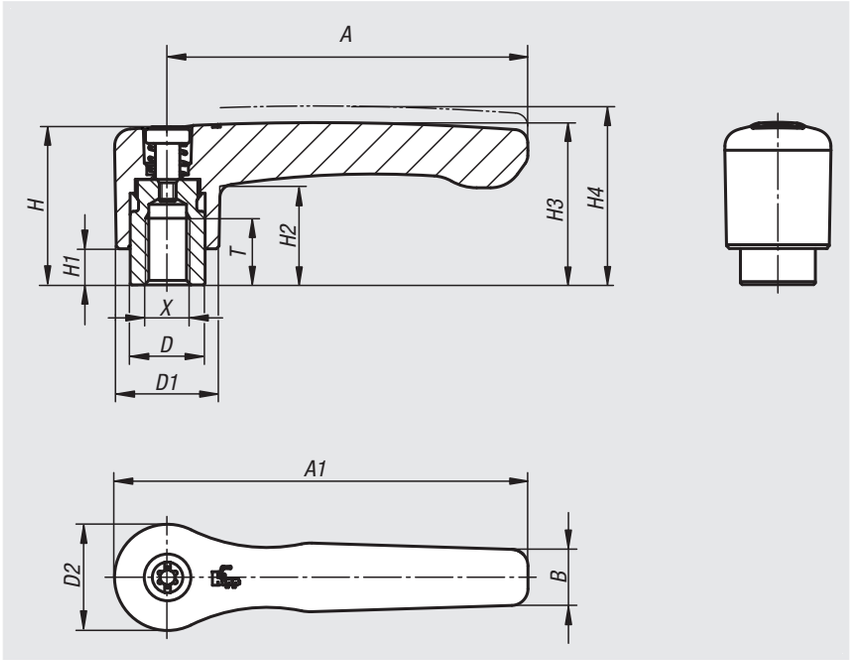
Order No. black	Order No. ruby red	Size	X	L
06443-1051X	**06443-10527X**	1	M5	10/15/20/25/30/35/40/45/50
06443-1061X	**06443-10627X**	1	M6	10/15/20/25/30/35/40/45/50
06443-2061X	**06443-20627X**	2	M6	15/20/25/30/35/40/45/50/55/60
06443-2081X	**06443-20827X**	2	M8	15/20/25/30/35/40/45/50/55/60
06443-2101X	**06443-21027X**	2	M10	15/20/25/30/35/40/45/50/55/60
06443-3081X	**06443-30827X**	3	M8	15/20/25/30/35/40/45/50/55/60
06443-3101X	**06443-31027X**	3	M10	15/20/25/30/35/40/45/50/55/60
06443-4101X	**06443-41027X**	4	M10	20/25/30/35/40/45/50/55/60/70/80/90
06443-4121X	**06443-41227X**	4	M12	20/25/30/35/40/45/50/55/60/70/80/90
06443-5121X	**06443-51227X**	5	M12	25/30/35/40/45/50/55/60/70/80/90
06443-5161X	**06443-51627X**	5	M16	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers flat

internal thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle powder-coated.
Steel parts black oxidised.

Sample order:
nlm 06448-2061

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to
disengage



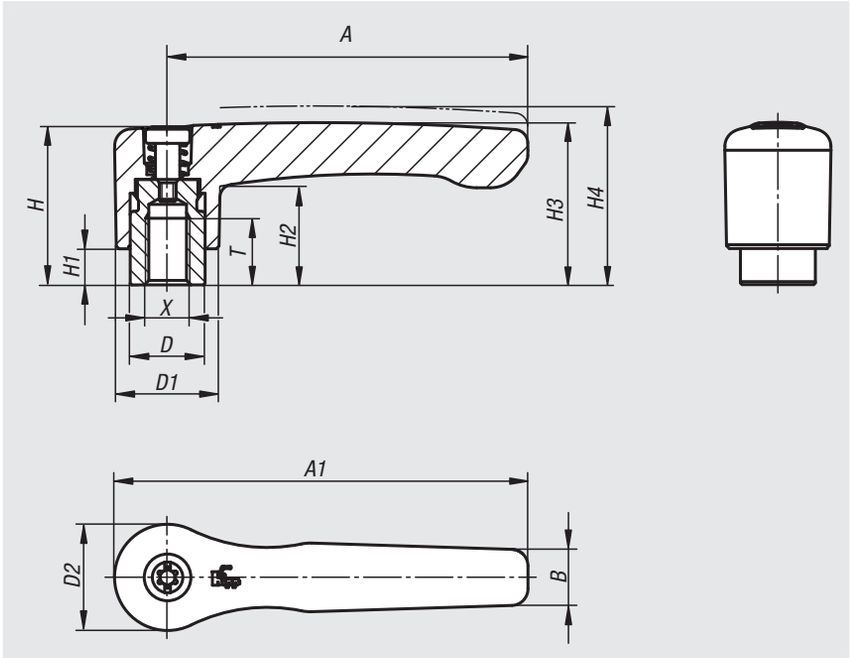
Order No. black	Order No. orange RAL 2004	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06448-2061	**06448-2062**	M6	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	12	20
06448-2081	**06448-2082**	M8	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	12	20
06448-3081	**06448-3082**	M8	80	91	11,7	16	21,2	22	37	10	23,8	38	42	14	22
06448-3101	**06448-3102**	M10	80	91	11,7	16	21,2	22	37	10	23,8	38	42	14	22

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Clamping levers flat

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle powder-coated.
Stainless steel parts bright.

Sample order:
nlm 06449-2061

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



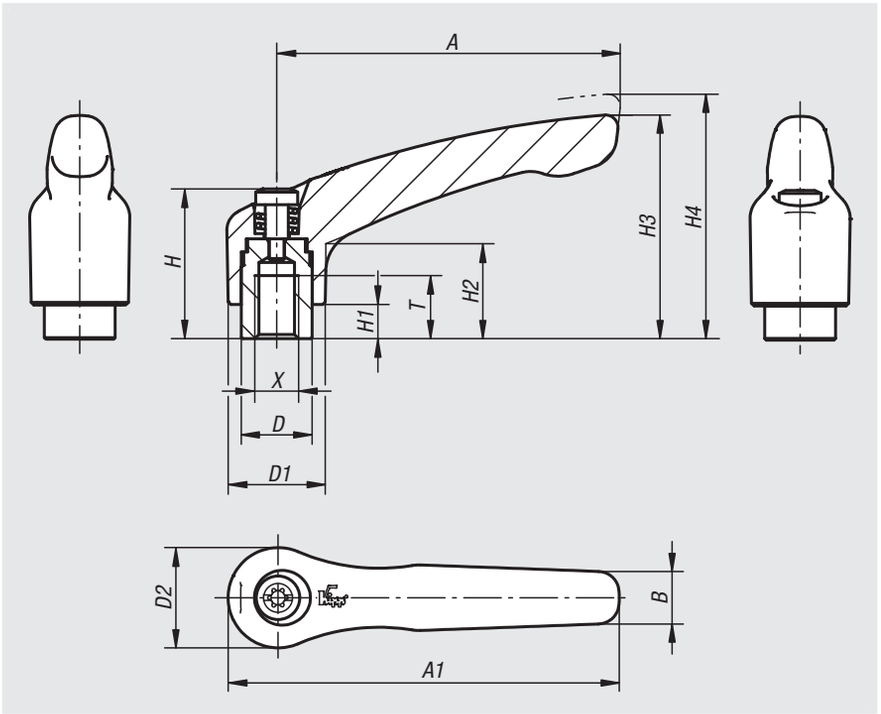
Order No. black	Order No. orange RAL 2004	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06449-2061	**06449-2062**	M6	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	12	20
06449-2081	**06449-2082**	M8	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	12	20
06449-3081	**06449-3082**	M8	80	91	11,7	16	21,2	22	37	10	23,8	38	42	14	22
06449-3101	**06449-3102**	M10	80	91	11,7	16	21,2	22	37	10	23,8	38	42	14	22

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Clamping levers

internal thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle powder-coated or high-gloss chromed.
Steel parts black oxidised.

Sample order:
nlm 06450-1041 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, colours and special versions.
Dimension "H1" available in other lengths at extra charge.

lift to disengage



black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

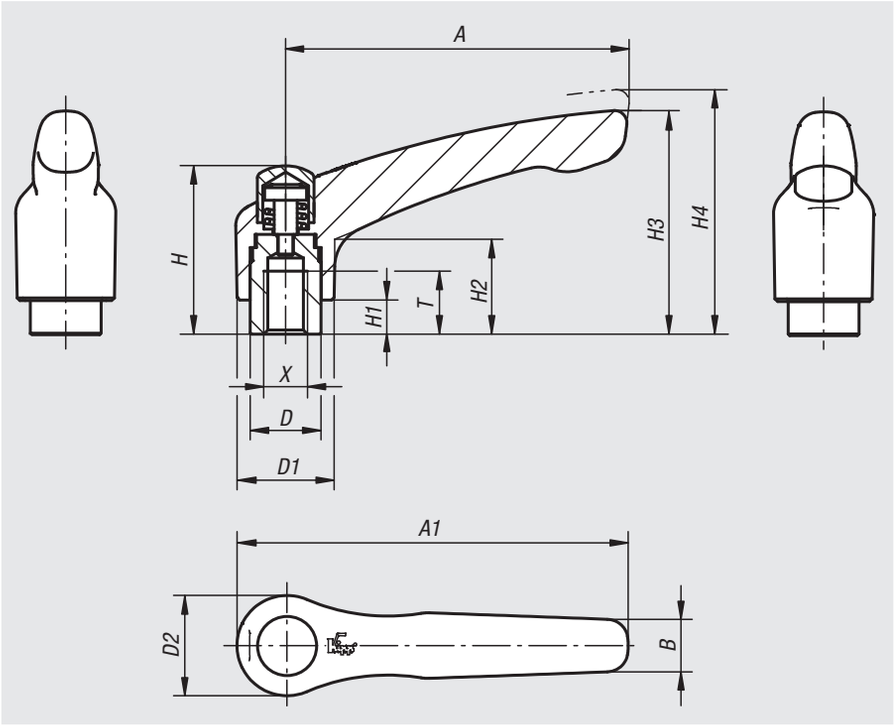
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06450-003Δ	M3	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06450-004Δ	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06450-005Δ	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06450-104Δ	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06450-105Δ	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06450-106Δ	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06450-206Δ	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06450-208Δ	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06450-308Δ	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06450-310Δ	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06450-410Δ	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06450-412Δ	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06450-512Δ	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06450-516Δ	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26

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Clamping levers with protective cap

internal thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.
Protective cap stainless steel 1.4305.

Version:
Handle powder-coated.
Steel parts black oxidised.
Caps bright stainless steel.

Sample order:
nlm 06450-92061

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



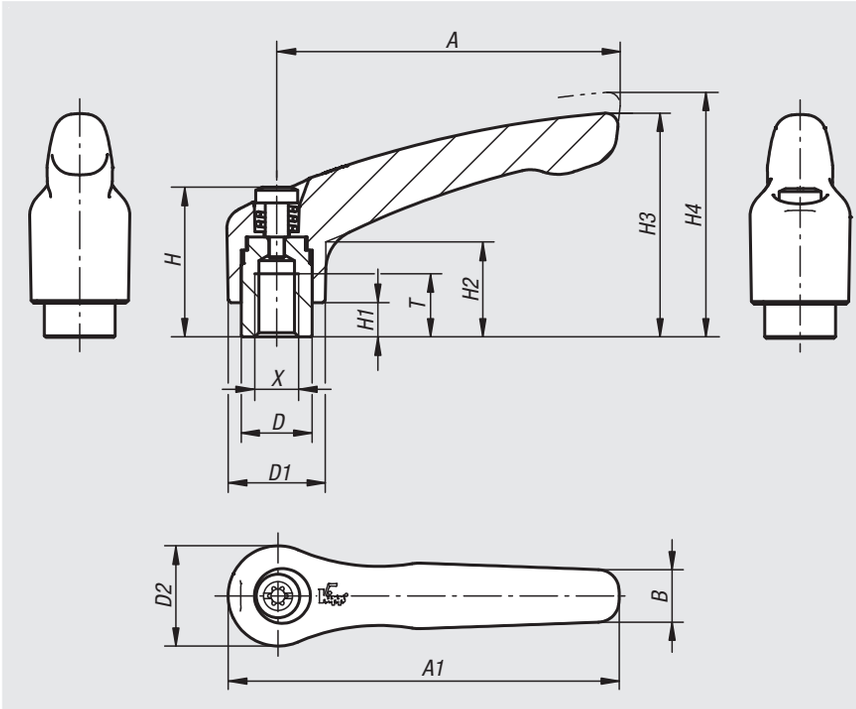
Order No. black	Order No. orange RAL 2004	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06450-92061	**06450-92062**	M6	65	74,5	9,5	13,5	18,5	19	-	6,5	17,5	42,5	45,5	12	20
06450-92081	**06450-92082**	M8	65	74,5	9,5	13,5	18,5	19	-	6,5	17,5	42,5	45,5	12	20
06450-93081	**06450-93082**	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06450-93101	**06450-93102**	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22

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Clamping levers, zinc

with internal thread, steel parts trivalent blue passivated





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated or high-gloss chromed.
Steel parts trivalent blue passivated.

Sample order:
nlm 06450-05-0041

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, silver metallic, high gloss chromed.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



black satin finish = 1



orange = 2



RAL 2004

silver metallic = 3



silver = 6



Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06450-05-003Δ	M3	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06450-05-004Δ	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06450-05-005Δ	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06450-05-104Δ	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06450-05-105Δ	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06450-05-106Δ	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06450-05-206Δ	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06450-05-208Δ	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06450-05-308Δ	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06450-05-310Δ	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06450-05-410Δ	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06450-05-412Δ	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06450-05-512Δ	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06450-05-516Δ	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26

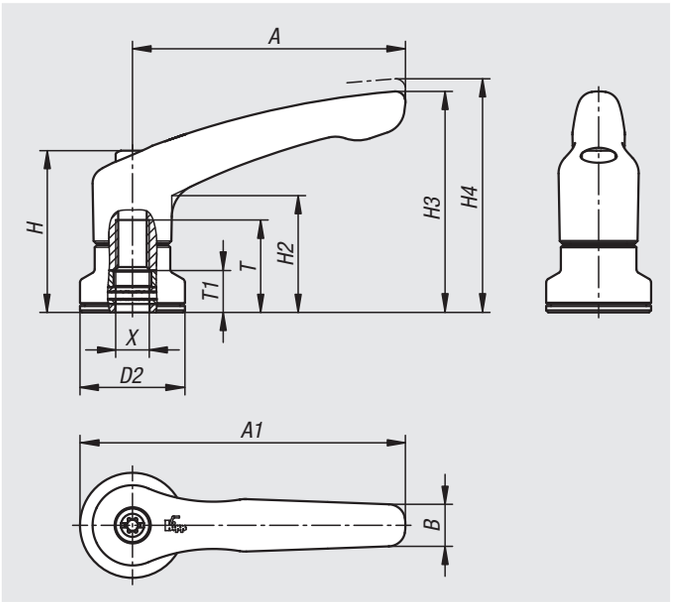
Notes

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Clamping levers, zinc

with female thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts, black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06450-10-5121 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

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Clamping levers, zinc

with female thread and clamping force intensifier





black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

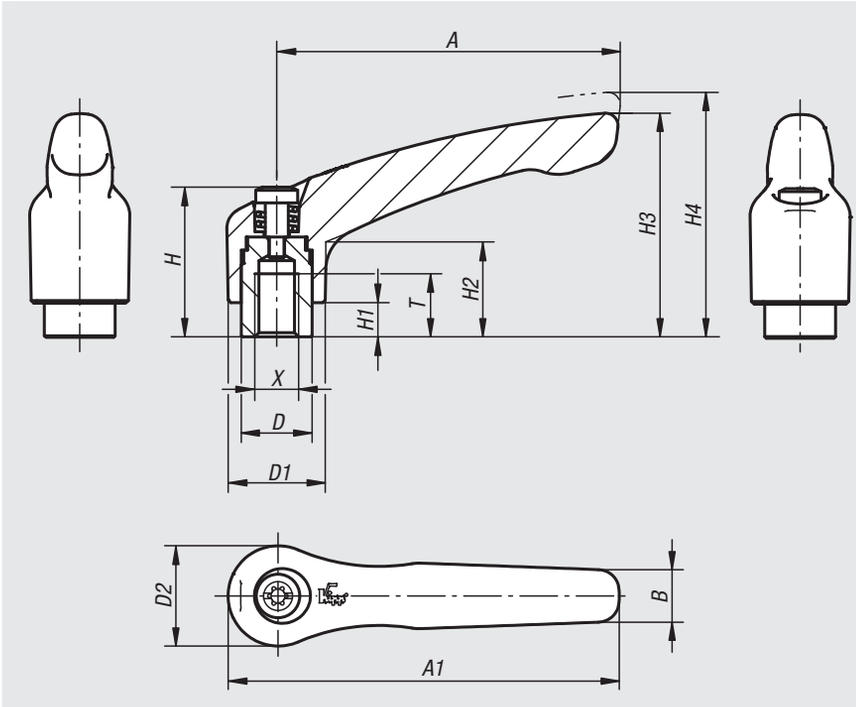
Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
06450-10-208Δ	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	22	10
06450-10-310Δ	M10	30	47	33,9	64,6	68,6	80	95	11,2	24	10
06450-10-410Δ	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	27	10
06450-10-512Δ	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	33	10
06450-10-310Δ	M10	30	47	33,9	64,4	68,6	80	95	11,2	24	10
06450-10-310Δ	M10	30	47	33,9	4,4	68,6	80	95	11,2	24	10

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Clamping levers

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle powder-coated or high-gloss chromed.
Steel parts bright.

Sample order:
nlm 06451-1051 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

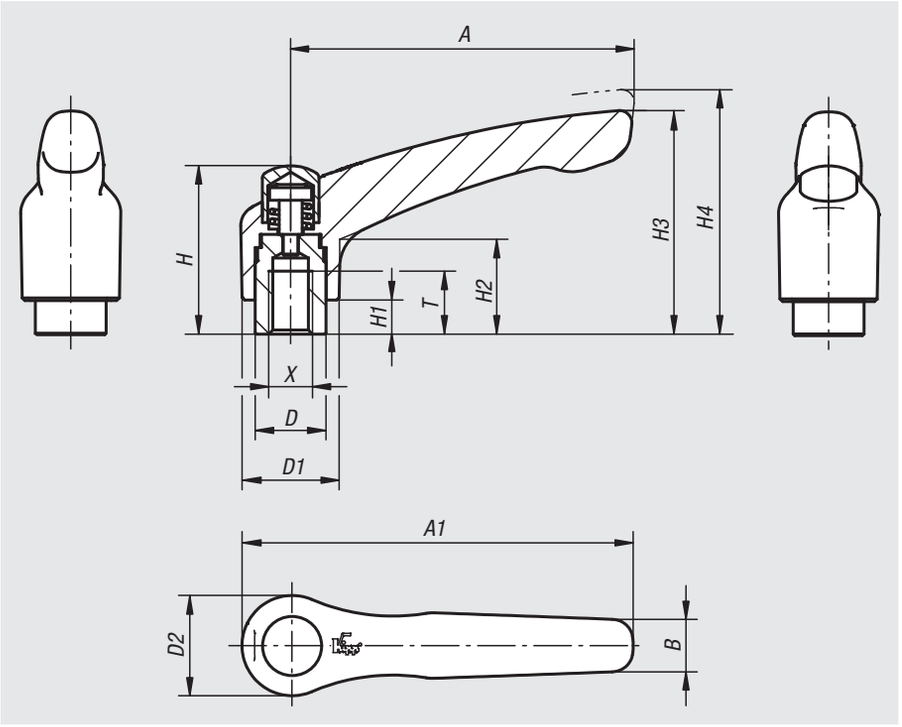
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06451-003Δ	M3	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06451-004Δ	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06451-005Δ	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
06451-104Δ	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06451-105Δ	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06451-106Δ	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06451-206Δ	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06451-208Δ	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06451-308Δ	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06451-310Δ	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06451-410Δ	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06451-412Δ	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06451-512Δ	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06451-516Δ	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26

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Clamping levers with protective cap

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts and cap 1.4305 stainless steel.

Version:
Handle powder-coated.
Stainless steel parts bright.

Sample order:
nlm 06451-92081

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



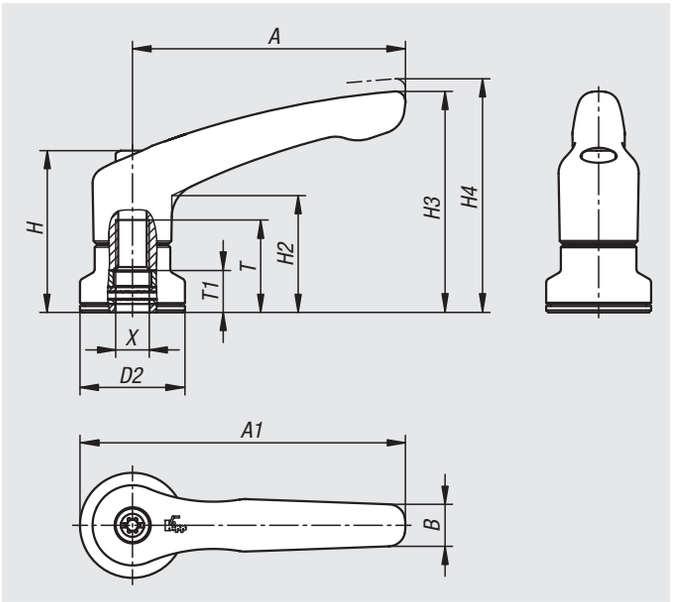
Order No. black	Order No. orange RAL 2004	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06451-92061	**06451-92062**	M6	65	74,5	9,5	13,5	18,5	19	-	6,5	17,5	42,5	45,5	12	20
06451-92081	**06451-92082**	M8	65	74,5	9,5	13,5	18,5	19	-	6,5	17,5	42,5	45,5	12	20
06451-93081	**06451-93082**	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06451-93101	**06451-93102**	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22

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Clamping levers, zinc

with female thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06451-10-5121 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

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Clamping levers, zinc

with female thread and clamping force intensifier





black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

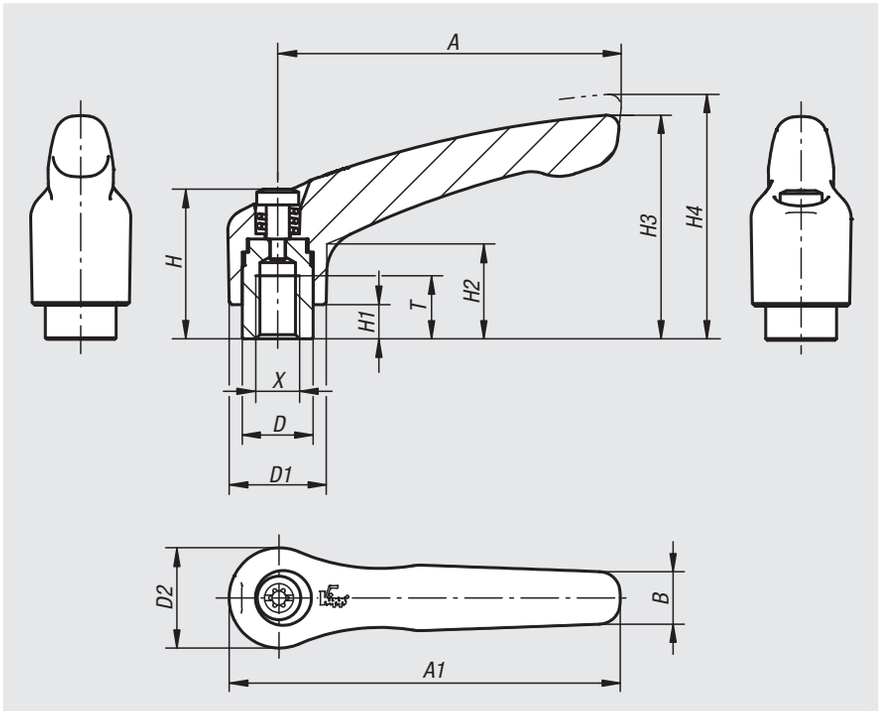
Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
06451-10-208Δ	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	22	10
06451-10-310Δ	M10	30	47	33,9	64,6	68,6	80	95	11,2	24	10
06451-10-410Δ	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	27	10
06451-10-512Δ	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	33	10
06451-10-310Δ	M10	30	47	33,9	64,4	68,6	80	95	11,2	24	10
06451-10-310Δ	M10	30	47	33,9	4,4	68,6	80	95	11,2	24	10

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Clamping levers

with internal thread, stainless steel





Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electropolished or blasted.
Metal parts bright.

Sample order:
nlm 06454-105

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



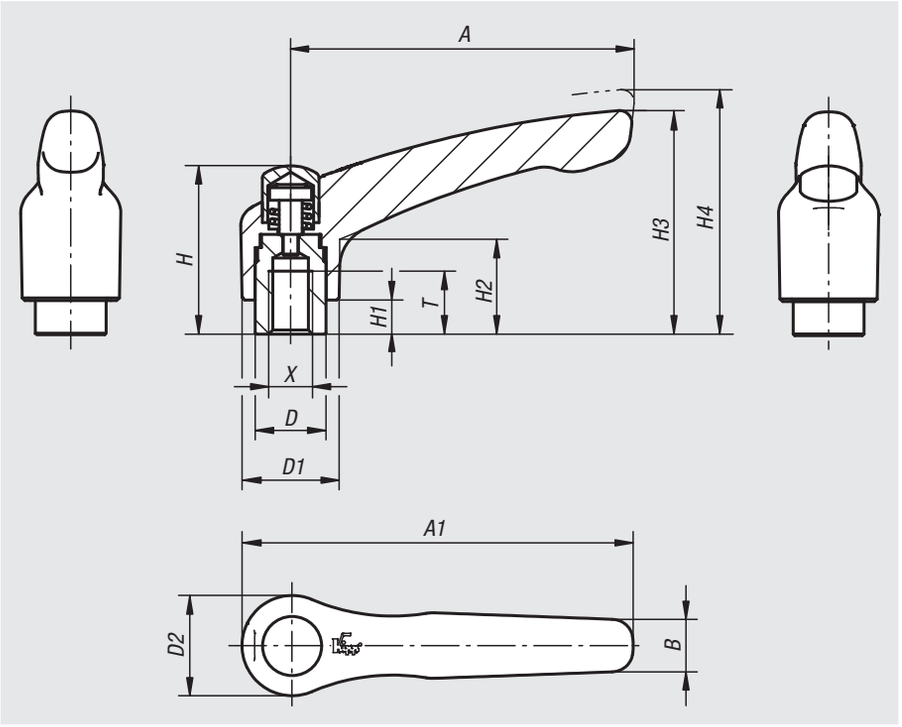
Order No.	Main colour	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06454-104	electropolished	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06454-105	electropolished	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06454-106	electropolished	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06454-206	electropolished	M6	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06454-208	electropolished	M8	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06454-308	electropolished	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06454-310	electropolished	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06454-410	electropolished	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06454-412	electropolished	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06454-512	electropolished	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06454-516	electropolished	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06454-104153	blasted	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06454-105153	blasted	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06454-106153	blasted	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
06454-206153	blasted	M6	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06454-208153	blasted	M8	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
06454-308153	blasted	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06454-310153	blasted	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
06454-410153	blasted	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06454-412153	blasted	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
06454-512153	blasted	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
06454-516153	blasted	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26

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Clamping levers with protective cap

with internal thread, stainless steel





Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electropolished.
Steel parts bright.

Sample order:
nlm 06454-9208

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.



Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06454-9206	M6	65	74,5	10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	12	20
06454-9208	M8	65	74,5	10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	12	20
06454-9308	M8	80	91	11	16	21	22	41,5	10	24	54,5	58,5	14	22
06454-9310	M10	80	91	11	16	21	22	41,5	10	24	54,5	58,5	14	22

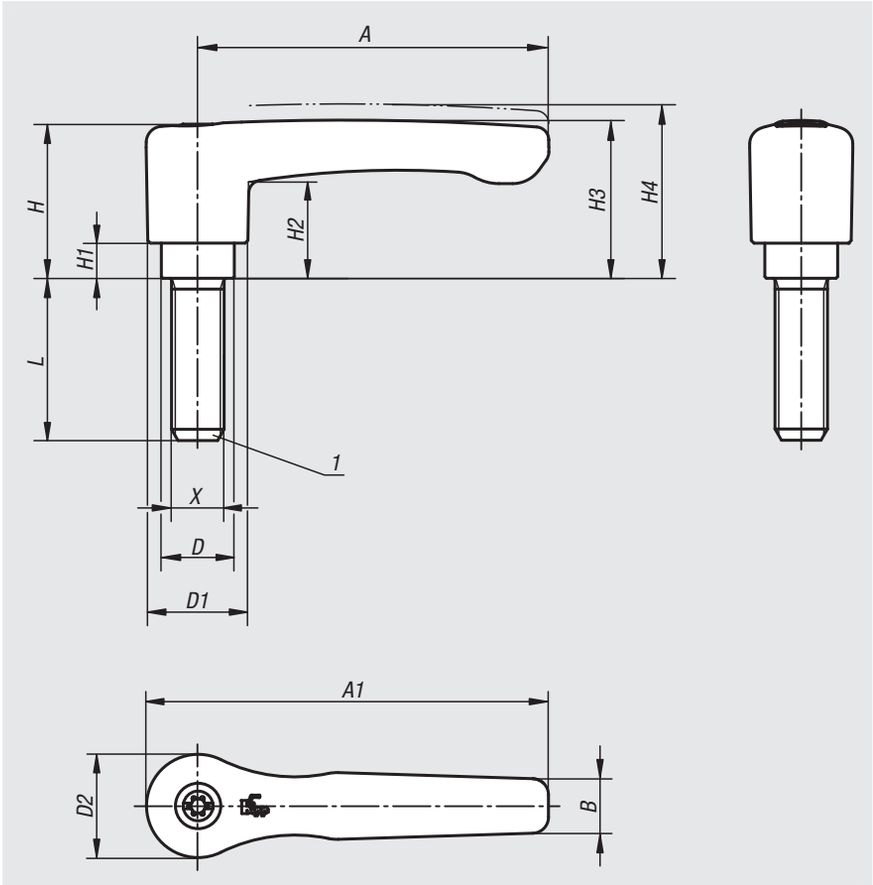
Notes

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Clamping levers flat

external thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle powder-coated.
Steel parts black oxidised.

Sample order:
nlm 06458-2061X15 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



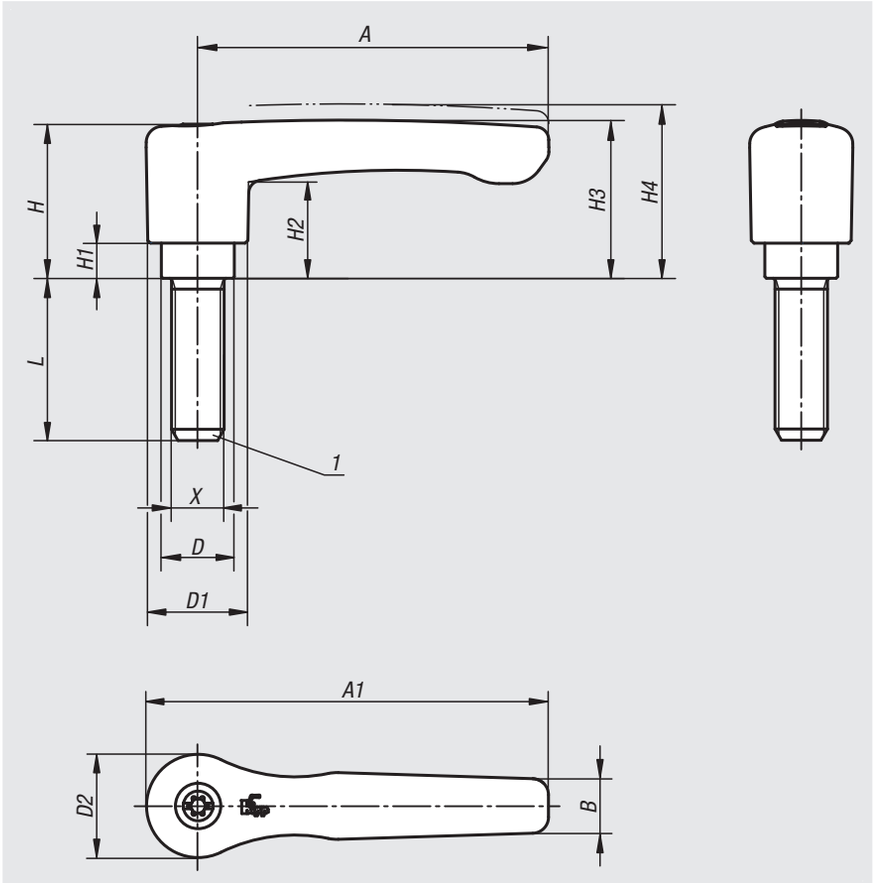
Order No. black	Order No. orange RAL 2004	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06458-2061X	**06458-2062X**	M6	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	20	15/20/25/30/35/40/45/50/55/60
06458-2081X	**06458-2082X**	M8	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	20	15/20/25/30/35/40/45/50/55/60
06458-2101X	**06458-2102X**	M10	65	74,5	10,1	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	20	15/20/25/30/35/40/45/50/55/60
06458-3081X	**06458-3082X**	M8	80	91	11,7	16	21,2	22	37	10	23,8	38	42	22	15/20/25/30/35/40/45/50/55/60
06458-3101X	**06458-3102X**	M10	80	91	11,7	16	21,2	22	37	10	23,8	38	42	22	15/20/25/30/35/40/45/50/55/60

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Clamping levers flat

external thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle powder-coated.
Stainless steel parts bright.

Sample order:
nlm 06459-2061X15 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



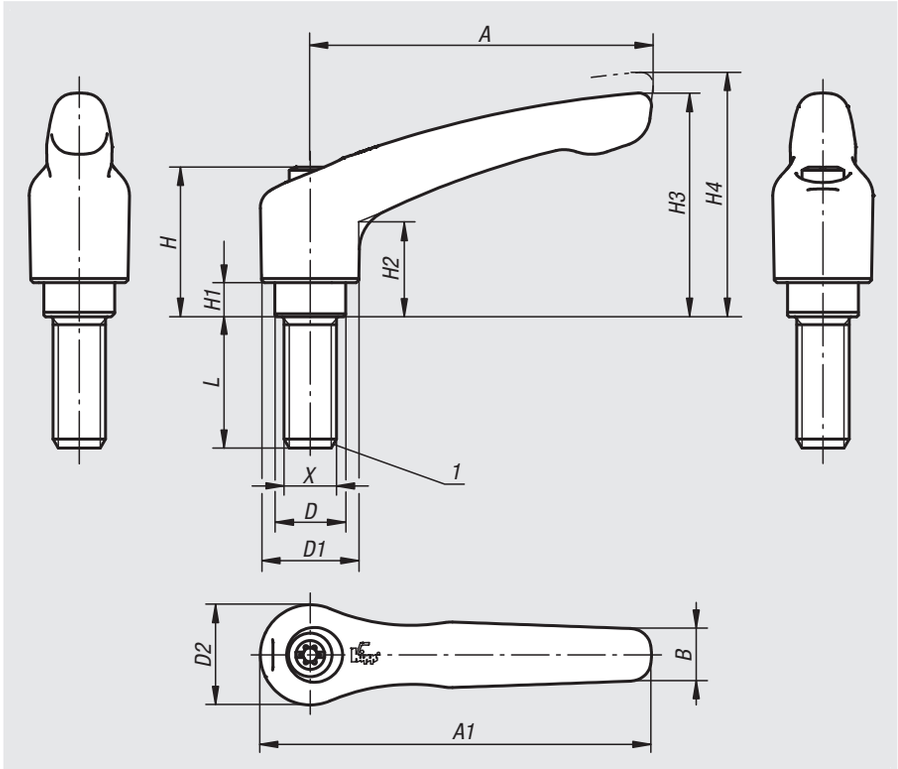
Order No. black	Order No. orange RAL 2004	X	A	A1	D	D1	D2	H	H1	H2	H3	H4	B	No. of teeth	L
06459-2061X	**06459-2062X**	M6	65	74,5	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	10,1	20	15/20/25/30/40/50/60
06459-2081X	**06459-2082X**	M8	65	74,5	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	10,1	20	15/20/25/30/40/50/60
06459-2101X	**06459-2102X**	M10	65	74,5	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	10,1	20	20/25/30/40/50/60
06459-3081X	**06459-3082X**	M8	80	91	16	21,2	22	37	10	23,8	38	42	11,7	22	20/25/30/40/50/60
06459-3101X	**06459-3102X**	M10	80	91	16	21,2	22	37	10	23,8	38	42	11,7	22	20/25/30/40/50/60

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Clamping levers

external thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle powder-coated or high-gloss chromed.
Steel parts black oxidised.

Sample order:
nlm 06460-0041X10 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension "H1" available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

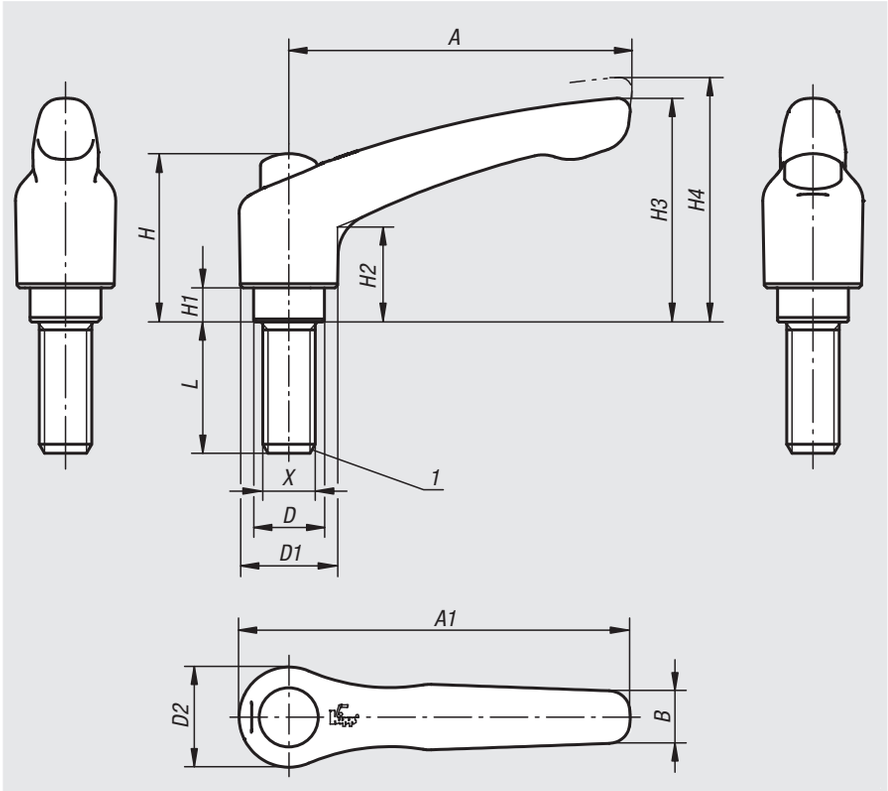
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06460-004ΔX	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25/30/35/40/45/50
06460-005ΔX	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25/30/35/40/45/50
06460-105ΔX	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/35/40/45/50
06460-106ΔX	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/35/40/45/50
06460-206ΔX	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06460-208ΔX	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06460-210ΔX	M10	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06460-308ΔX	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	22	15/20/25/30/35/40/45/50/55/60
06460-310ΔX	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22	15/20/25/30/35/40/45/50/55/60
06460-410ΔX	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	24	20/25/30/35/40/45/50/55/60/70/80/90
06460-412ΔX	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24	20/25/30/35/40/45/50/55/60/70/80/90
06460-512ΔX	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	26	25/30/35/40/45/50/55/60/70/80/90
06460-516ΔX	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	26	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers with protective cap

external thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.
Protective cap stainless steel 1.4305.

Version:
Handle powder-coated.
Steel parts black oxidised.
Caps bright stainless steel.

Sample order:
nlm 06460-92081X30 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

Where L is ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



Specifications

Size	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth
2	M6/M8/M10	65	74,5	9,5	13,5	18,5	19	32	6,5	17,5	42,5	45,5	20
3	M8/M10	80	91	11	16	21	22	41,5	10	24	54,5	58,5	22

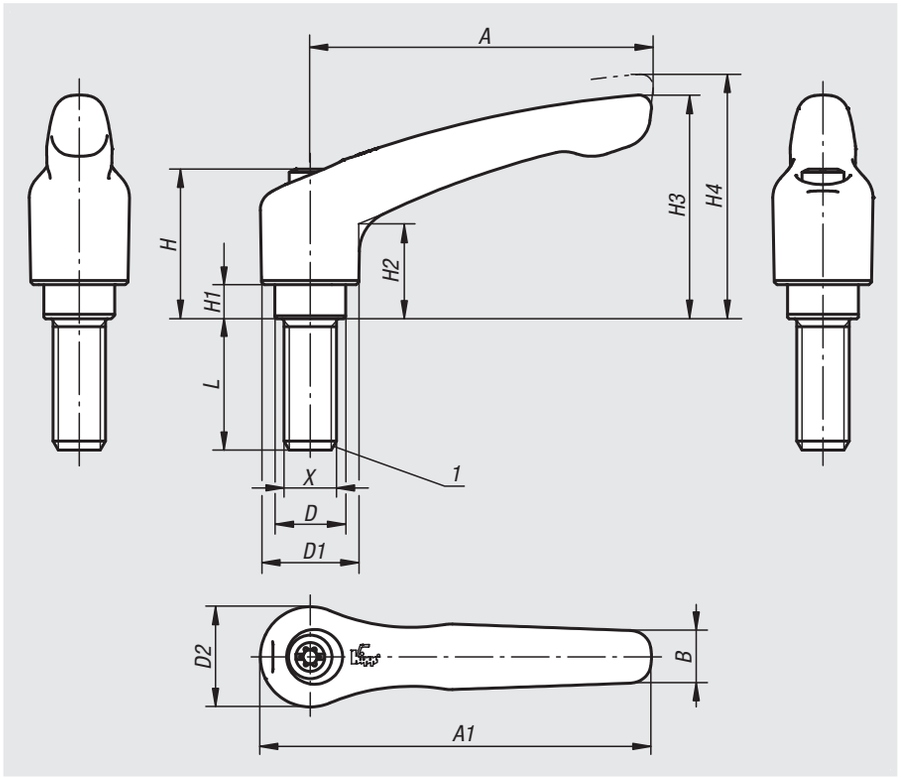
Order No. black	Order No. orange RAL 2004	Size	X	L
06460-92061X	**06460-92062X**	2	M6	15/20/25/30/35/40/45/50/55/60
06460-92081X	**06460-92082X**	2	M8	15/20/25/30/35/40/45/50/55/60
06460-92101X	**06460-92102X**	2	M10	15/20/25/30/35/40/45/50/55/60
06460-93081X	**06460-93082X**	3	M8	15/20/25/30/35/40/45/50/55/60
06460-93101X	**06460-93102X**	3	M10	15/20/25/30/35/40/45/50/55/60

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Clamping levers, zinc

with external thread, steel parts trivalent blue passivated





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated or high-gloss chromed.
Steel parts trivalent blue passivated.

Sample order:
nlm 06460-05-0041X10 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, silver metallic, high gloss chromed.
Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, colours and special versions.
Dimension "H1" available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



black satin finish = 1	orange = 2	silver metallic = 3	silver = 6
	 RAL 2004		

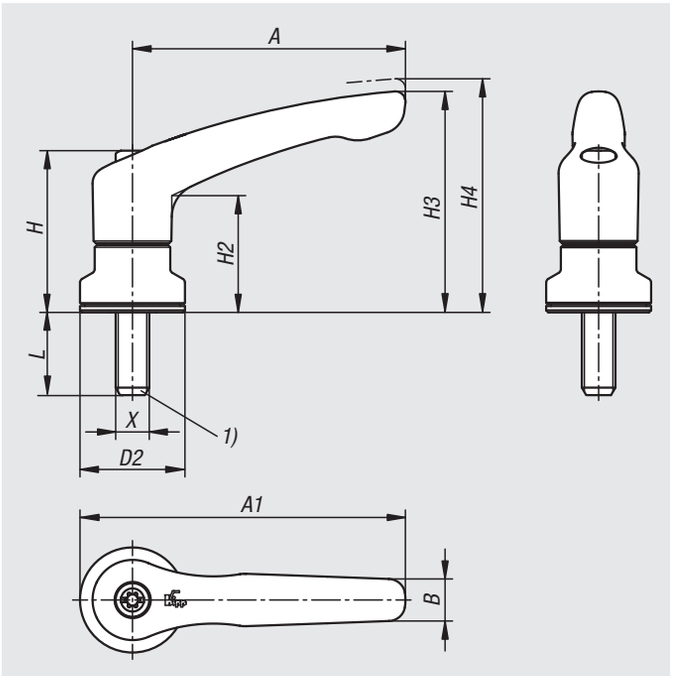
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06460-05-004ΔX	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25/30/35/40/45/50
06460-05-005ΔX	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25/30/35/40/45/50
06460-05-105ΔX	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/35/40/45/50
06460-05-106ΔX	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/35/40/45/50
06460-05-206ΔX	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06460-05-208ΔX	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06460-05-210ΔX	M10	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06460-05-308ΔX	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	22	15/20/25/30/35/40/45/50/55/60
06460-05-310ΔX	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22	15/20/25/30/35/40/45/50/55/60
06460-05-410ΔX	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	24	20/25/30/35/40/45/50/55/60/70/80/90
06460-05-412ΔX	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24	20/25/30/35/40/45/50/55/60/70/80/90
06460-05-512ΔX	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	26	25/30/35/40/45/50/55/60/70/80/90
06460-05-516ΔX	M16	110	126	15	23	31	32	49	12	31,10	73	77,10	26	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers, zinc

with male thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts, black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06460-10-5121X20 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

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Clamping levers, zinc

with male thread and clamping force intensifier



black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

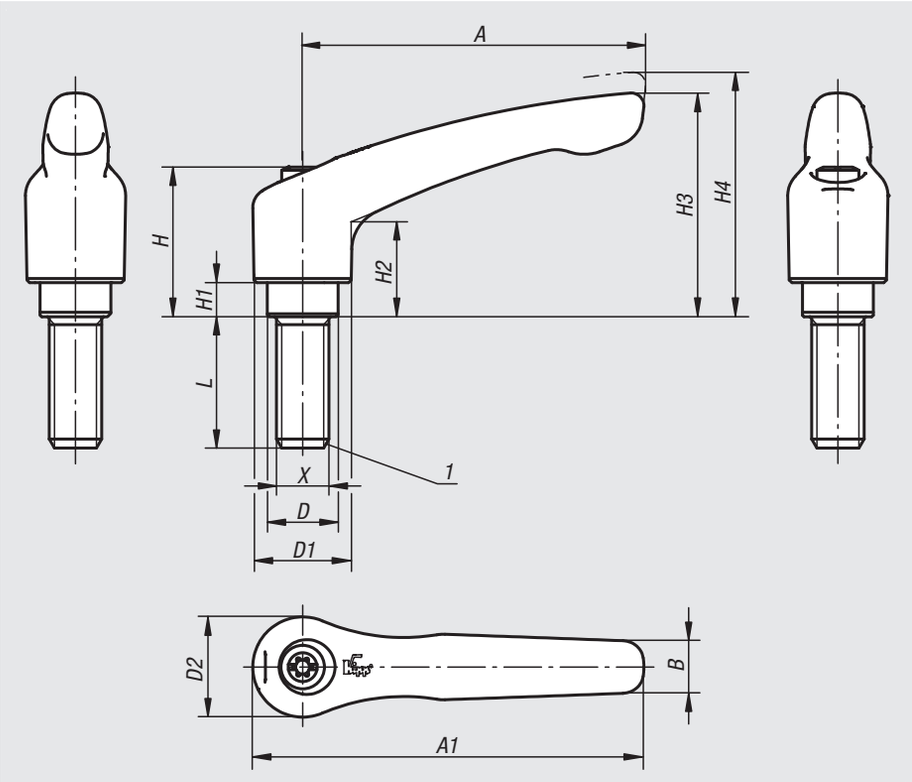
Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
06460-10-208ΔX	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	10/20/30/40
06460-10-310ΔX	M10	30	47	33,9	64,6	68,6	80	95	11,2	15/30/40/50
06460-10-410ΔX	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	20/30/40/50
06460-10-512ΔX	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	20/30/40/50

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Clamping levers

external thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle powder-coated or high-gloss chromed.
Steel parts bright.

Sample order:
nlm 06461-1051X25 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

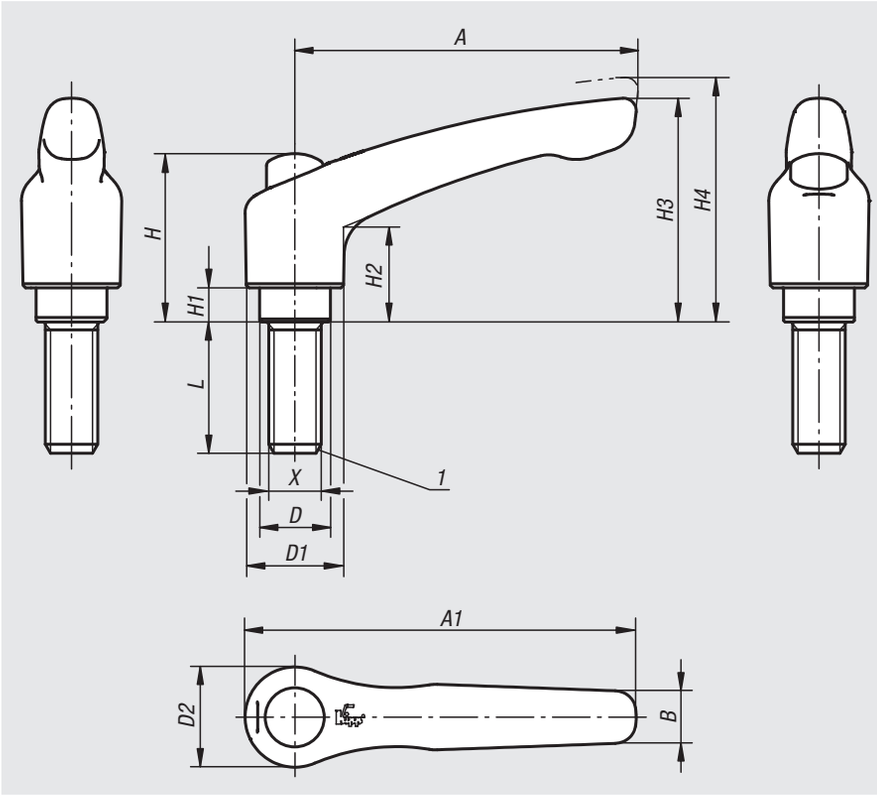
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06461-004ΔX	M4	30	37	7	10	13	14	24,5	4	-	-	33	16	10/15/20/25
06461-005ΔX	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25
06461-105ΔX	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25
06461-106ΔX	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/40/50
06461-206ΔX	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06461-208ΔX	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06461-210ΔX	M10	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	20/25/30/40/50/60
06461-308ΔX	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	22	20/25/30/40/50/60
06461-310ΔX	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22	20/25/30/40/50/60
06461-412ΔX	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24	25/30/40/50/60
06461-516ΔX	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	26	30/40/50/60

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Clamping levers with protective cap

with external thread, metal parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts and cap 1.4305 stainless steel.

Version:
Handle powder-coated.
Stainless steel parts bright.

Sample order:
nlm 06461-92081X30 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

Where L is ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



Specifications

Size	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth
2	M6/M8/M10	65	74,5	9,5	13,5	18,5	19	32	6,5	17,5	42,5	45,5	20
3	M8/M10	80	91	11	16	21	22	41,5	10	24	54,5	58,5	22

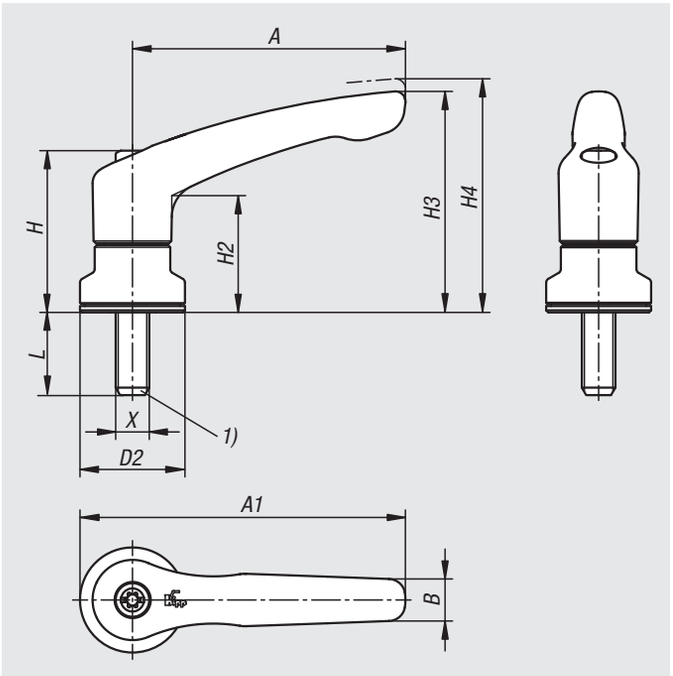
Order No. black	Order No. orange RAL 2004	Size	X	L
06461-92061X	**06461-92062X**	2	M6	15/20/25/30/40/50/60
06461-92081X	**06461-92082X**	2	M8	15/20/25/30/40/50/60
06461-92101X	**06461-92102X**	2	M10	20/25/30/40/50/60
06461-93081X	**06461-93082X**	3	M8	20/25/30/40/50/60
06461-93101X	**06461-93102X**	3	M10	20/25/30/40/50/60

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Clamping levers, zinc

with male thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06461-10-5121X20 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

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Clamping levers, zinc

with male thread and clamping force intensifier



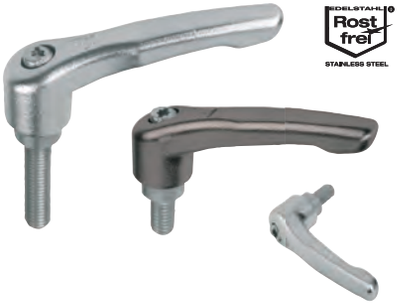
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

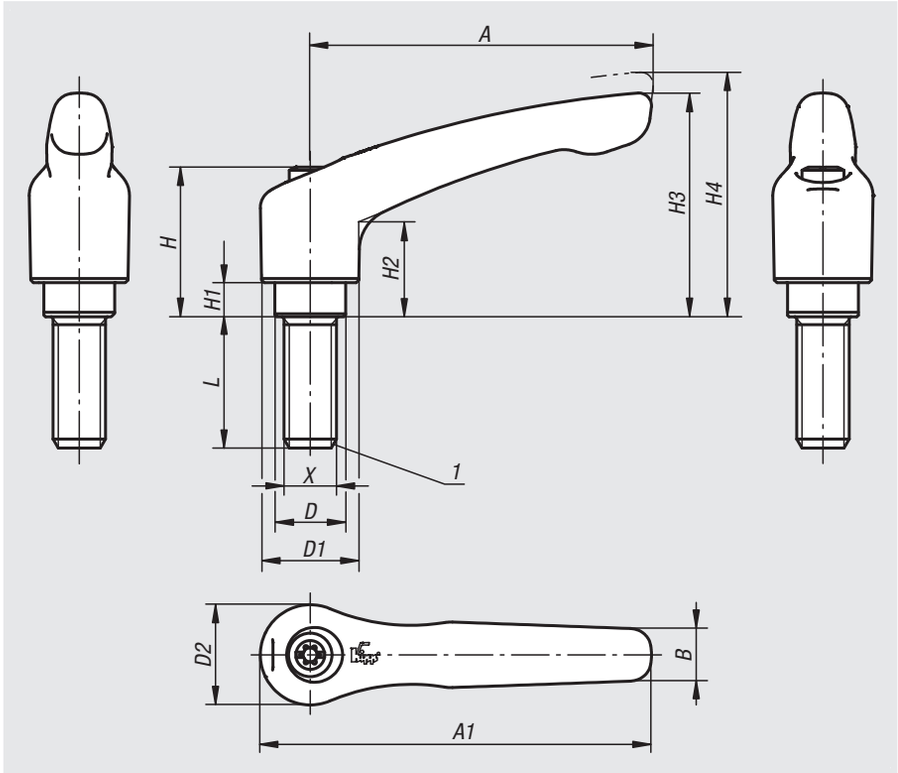
Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
06461-10-208ΔX	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	10/20/30/40
06461-10-310ΔX	M10	30	47	33,9	64,6	68,6	80	95	11,2	15/30/40/50
06461-10-410ΔX	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	20/30/40/50
06461-10-512ΔX	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	20/30/40/50

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Clamping levers

with external thread, stainless steel





Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electropolished or blasted.
Metal parts bright.

Sample order:
nlm 06464-105X10 (include length L)

Note:
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



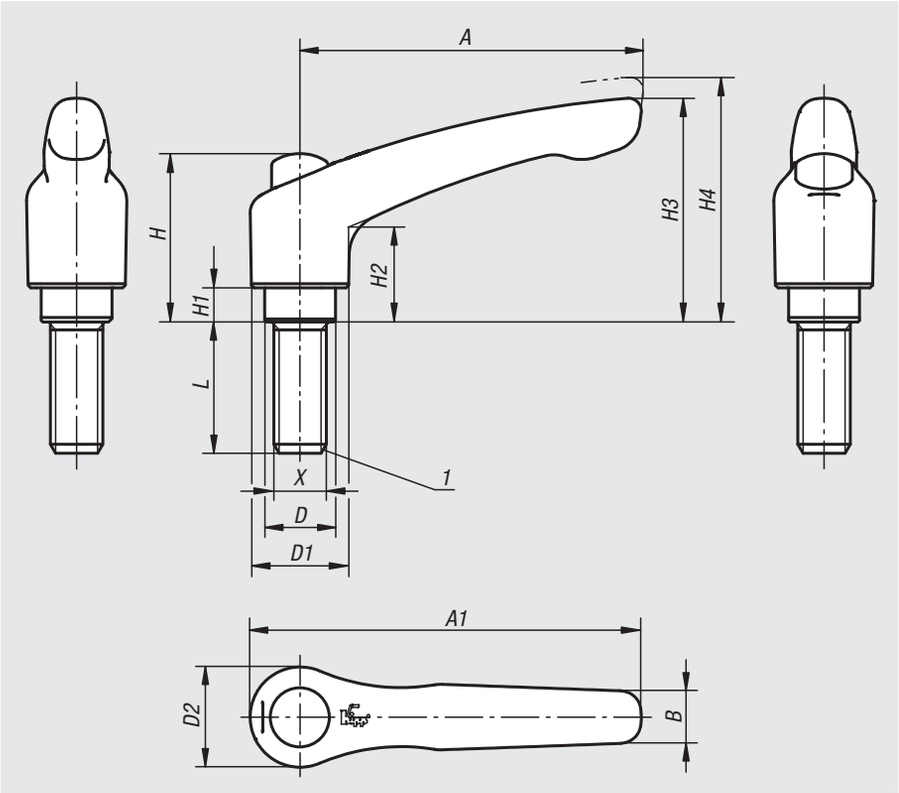
Order No.	Main colour	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06464-105X	electropolished	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25
06464-106X	electropolished	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/40/50
06464-206X	electropolished	M6	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06464-208X	electropolished	M8	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06464-210X	electropolished	M10	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	20/25/30/40/50/60
06464-308X	electropolished	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	22	20/25/30/40/50/60
06464-310X	electropolished	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22	20/25/30/40/50/60
06464-412X	electropolished	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24	25/30/40/50/60
06464-516X	electropolished	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	26	30/40/50/60
06464-105153X	blasted	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25
06464-106153X	blasted	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/40/50
06464-206153X	blasted	M6	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06464-208153X	blasted	M8	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06464-210153X	blasted	M10	65	74,5	10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	20/25/30/40/50/60
06464-308153X	blasted	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	22	20/25/30/40/50/60
06464-310153X	blasted	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22	20/25/30/40/50/60
06464-412153X	blasted	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24	25/30/40/50/60
06464-516153X	blasted	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	26	30/40/50/60

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Clamping levers with protective cap

with external thread, stainless steel





Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electropolished.
Steel parts bright.

Sample order:
nlm 06464-9208X30 (include length L)

Note:
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

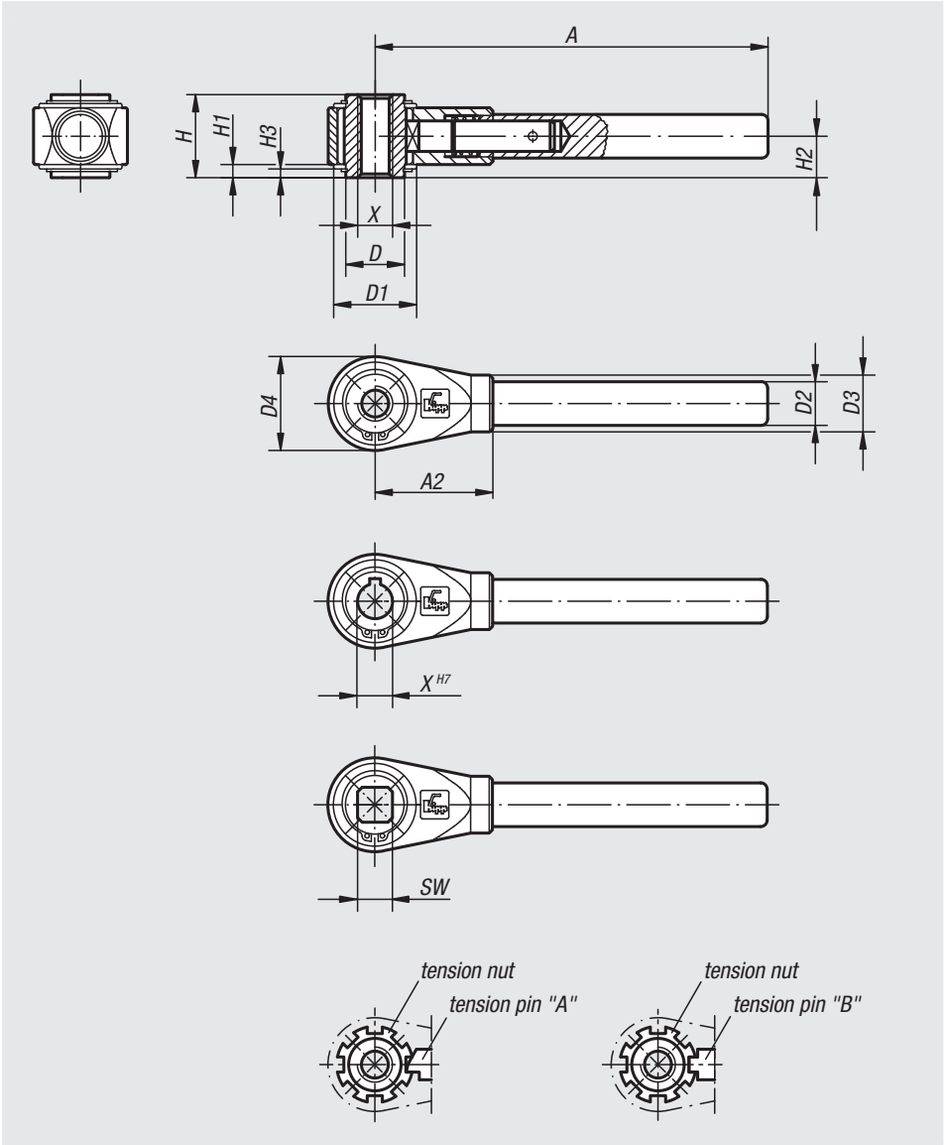


Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06464-9206X	M6	65	74,5	10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06464-9208X	M8	65	74,5	10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	20	15/20/25/30/40/50/60
06464-9210X	M10	65	74,5	10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	20	20/25/30/40/50/60
06464-9308X	M8	80	91	11	16	21	22	41,5	10	24	54,5	58,5	22	20/25/30/40/50/60
06464-9310X	M10	80	91	11	16	21	22	41,5	10	24	54,5	58,5	22	20/25/30/40/50/60

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Ratchet levers





Material:
Housing carbon steel, tension nut and tension pin case-hardened steel.

Version:
Black oxidised.
Matt-finished or high-polish chrome-plated versions available at extra charge.

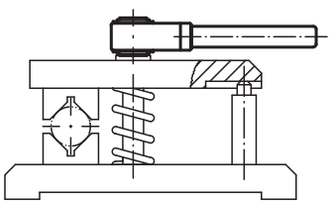
Sample order:
nlm 06470-316

Note:
Tension Pin A standard version (for ratchet action):
Use for clamping and releasing in limited space and when considerable travel is involved. In order to change the tightening direction, the handle must be reversed by 180°.

Tension Pin B special version:
Use for clamping and releasing in limited space and when short travel is involved. The handle is not reversed in order to change the tightening direction. It must be pulled out before it can be engaged in the next slot.

Clamp with H7 reamed hole and DIN 6885/1 keyway.

On request:
Other thread, reamed hole and square socket sizes.
Dimension “E” available in other lengths at extra charge.
Special version: Tension pin B.



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Ratchet levers

Ratchet levers with internal thread

Order No.	Kind of fastening	X	A=handle length	A2	D	D1	D2	D3	D4	H	H1	H2	H3	No. of index slots
06470-310	internal thread	M10	150	48	22	33	17	22	36	31	4,5	15,5	3	7
06470-312	internal thread	M12	150	48	22	33	17	22	36	31	4,5	15,5	3	7
06470-314	internal thread	M14	180	54	27	38	20	26	43	38	6	19	4	8
06470-316	internal thread	M16	180	54	27	38	20	26	43	38	6	19	4	8
06470-318	internal thread	M18	230	70	35	45	24	30	51	42	6	21	4	8
06470-320	internal thread	M20	230	70	35	45	24	30	51	42	6	21	4	8
06470-322	internal thread	M22	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-324	internal thread	M24	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-327	internal thread	M27	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-330	internal thread	M30	400	110	60	75	32	38	82	53	7,5	26,5	5	11
06470-336	internal thread	M36	400	110	60	75	32	38	82	53	7,5	26,5	5	11
06470-342	internal thread	M42	400	110	60	75	32	38	82	53	7,5	26,5	5	11

Ratchet levers with reamed hole

Order No.	Kind of fastening	X	A=handle length	A2	D	D1	D2	D3	D4	H	H1	H2	H3	No. of index slots
06470-412	reamed hole with slot	12	150	48	22	33	17	22	36	31	4,5	15,5	3	7
06470-414	reamed hole with slot	14	180	54	27	38	20	26	43	38	6	19	4	8
06470-415	reamed hole with slot	15	180	54	27	38	20	26	43	38	6	19	4	8
06470-416	reamed hole with slot	16	180	54	27	38	20	26	43	38	6	19	4	8
06470-418	reamed hole with slot	18	230	70	35	45	24	30	51	42	6	21	4	8
06470-420	reamed hole with slot	20	230	70	35	45	24	30	51	42	6	21	4	8
06470-422	reamed hole with slot	22	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-425	reamed hole with slot	25	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-427	reamed hole with slot	27	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-430	reamed hole with slot	30	400	110	60	75	32	38	82	53	7,5	26,5	5	11
06470-436	reamed hole with slot	36	400	110	60	75	32	38	82	53	7,5	26,5	5	11

Ratchet levers with square socket

Order No.	Kind of fastening	SW	A=handle length	A2	D	D1	D2	D3	D4	H	H1	H2	H3	No. of index slots
06470-510	square socket	10	150	48	22	33	17	22	36	31	4,5	15,5	3	7
06470-512	square socket	12	150	48	22	33	17	22	36	31	4,5	15,5	3	7
06470-513	square socket	13	180	54	27	38	20	26	43	38	6	19	4	8
06470-514	square socket	14	180	54	27	38	20	26	43	38	6	19	4	8
06470-517	square socket	17	230	70	35	45	24	30	51	42	6	21	4	8
06470-519	square socket	19	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-520	square socket	20	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-522	square socket	22	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-524	square socket	24	300	80	42	56	28	35	61	47	6	23,5	4	9
06470-530	square socket	30	400	110	60	75	32	38	82	53	7,5	26,5	5	11
06470-532	square socket	32	400	110	60	75	32	38	82	53	7,5	26,5	5	11

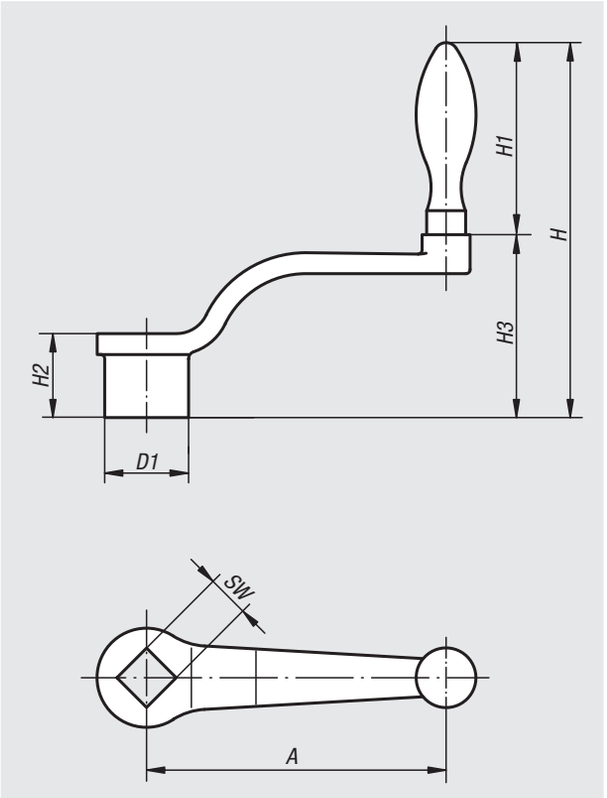
Notes

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Crank handles offset

similar to DIN 468





Material:
Crank arm malleable or ductile iron.

Version:
Blasted.

Sample order:
nlm 06480-212X14

Note:
Form D: with revolving handle
Form F: with fixed handle

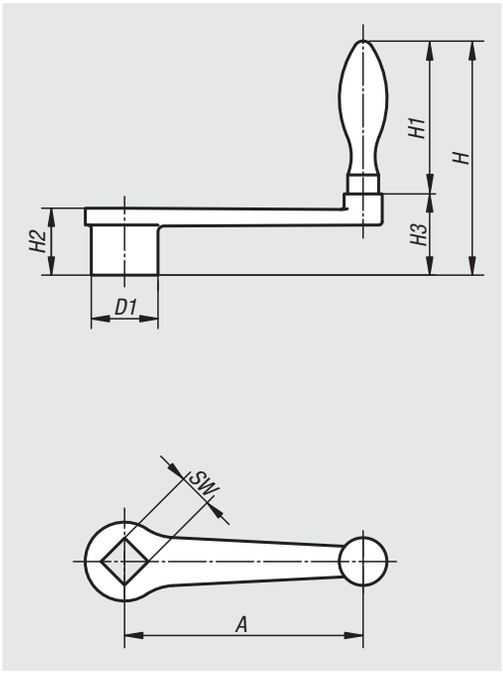
Order No.	Form	A	D1	H	H1	H2	H3	SW	Grip Ø
06480-206X10	D	63	20	92	52	20	40	10 +0,2	16
06480-208X10	D	80	24	109	65	24	44	10 +0,2	20
06480-208X12	D	80	24	109	65	24	44	12 +0,2	20
06480-210X12	D	100	28	120	65	28	55	12 +0,2	20
06480-210X14	D	100	28	120	65	28	55	14 +0,3	20
06480-212X14	D	125	34	141	83	34	58	14 +0,3	25
06480-212X17	D	125	34	141	83	34	58	17 +0,3	25
06480-216X17	D	160	37	153	83	38	70	17 +0,3	25
06480-216X19	D	160	37	153	83	38	70	19 +0,3	25
06480-220X19	D	200	40	189	105	44	84	19 +0,3	32
06480-220X22	D	200	40	189	105	44	84	22 +0,3	32
06480-106X10	F	63	20	92	52	20	40	10 +0,2	16
06480-108X10	F	80	24	109	65	24	44	10 +0,2	20
06480-108X12	F	80	24	109	65	24	44	12 +0,2	20
06480-110X12	F	100	28	120	65	28	55	12 +0,2	20
06480-110X14	F	100	28	120	65	28	55	14 +0,3	20
06480-112X14	F	125	34	141	83	34	58	14 +0,3	25
06480-112X17	F	125	34	141	83	34	58	17 +0,3	25
06480-116X17	F	160	37	153	83	38	70	17 +0,3	25
06480-116X19	F	160	37	153	83	38	70	19 +0,3	25
06480-120X19	F	200	40	189	105	44	84	19 +0,3	32
06480-120X22	F	200	40	189	105	44	84	22 +0,3	32

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Crank handles straight

similar to DIN 469





Material:
Crank arm malleable or ductile iron.

Version:
Blasted.

Sample order:
nlm 06490-120X22

Note:
Form D: with revolving handle
Form F: with fixed handle

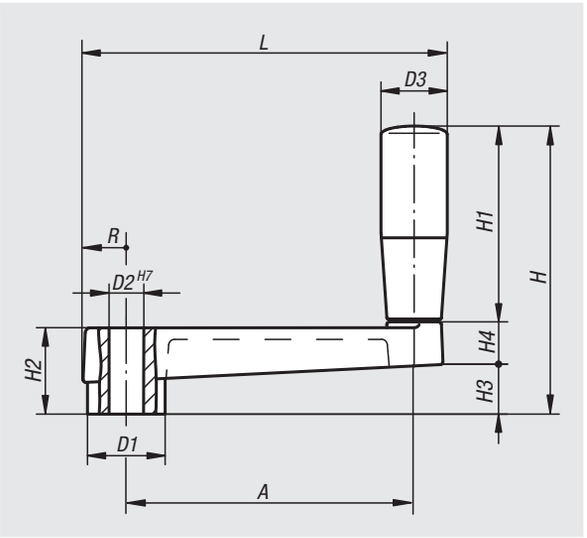
Order No.	Form	A	D1	H	H1	H2	H3	SW	Grip Ø
06490-206X10	D	63	20	80	52	20	28	10 +0,2	16
06490-208X10	D	80	24	98	65	24	33	10 +0,2	20
06490-208X12	D	80	24	98	65	24	33	12 +0,2	20
06490-210X12	D	100	28	102	65	28	37	12 +0,2	20
06490-210X14	D	100	28	102	65	28	37	14 +0,3	20
06490-212X14	D	125	34	120	80	34	40	14 +0,3	25
06490-212X17	D	125	34	120	80	34	40	17 +0,3	25
06490-216X17	D	160	37	131	83	38	48	17 +0,3	25
06490-216X19	D	160	37	131	83	38	48	19 +0,3	25
06490-220X19	D	200	40	158	105	44	53	19 +0,3	32
06490-220X22	D	200	40	158	105	44	53	22 +0,3	32
06490-106X10	F	63	20	80	52	20	28	10 +0,2	16
06490-108X10	F	80	24	98	65	24	33	10 +0,2	20
06490-108X12	F	80	24	98	65	24	33	12 +0,2	20
06490-110X12	F	100	28	102	65	28	37	12 +0,2	20
06490-110X14	F	100	28	102	65	28	37	14 +0,3	20
06490-112X14	F	125	34	120	80	34	40	14 +0,3	25
06490-112X17	F	125	34	120	80	34	40	17 +0,3	25
06490-116X17	F	160	37	131	83	38	48	17 +0,3	25
06490-116X19	F	160	37	131	83	38	48	19 +0,3	25
06490-120X19	F	200	40	158	105	44	53	19 +0,3	32
06490-120X22	F	200	40	158	105	44	53	22 +0,3	32

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Crank handles

aluminium





Material:
Aluminium.
Grip thermoplastic.

Version:
Arm powder-coated, black.
Grip black.

Sample order:
nlm 06492-100

Order No.	A	D1	D2	D3	H	H1	H2	H3	H4	L	R
06492-100	80	23	10	21	81	53	24	14	14	103,5	13
06492-120	100	27	12	23	100	68	28	17	15	126,5	15
06492-140	125	32	14	26	123	83	34	22	18	155,5	17,5

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Crank handles

with fold-away grip



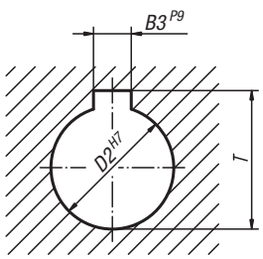
Material:
Black grey thermoplastic.

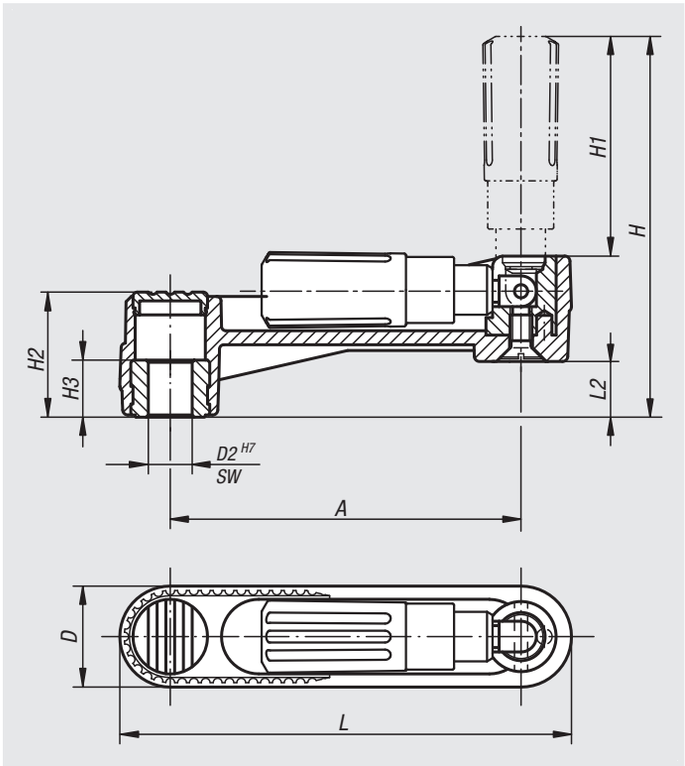
Version:
Steel parts black oxidised.

Sample order:
nlm 06500-1108

Note:
The hub cap is supplied loose.
The crank handle can be secured to a shaft using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.

DIN 6885-1





Order No.	Version 1	A	D	D2	H	H1	H2	H3	L	L2
06500-1108	reamed hole	80	24	8	85.5	49	29	13	104	13
06500-1110	reamed hole	80	24	10	85.5	49	29	13	104	13
06500-1210	reamed hole	100	29	10	105	59,5	36	13	129	16
06500-1212	reamed hole	100	29	12	105	59,5	36	13	129	16
06500-1312	reamed hole	125	36	12	140	83,5	44	18,5	161	19,5
06500-1314	reamed hole	125	36	14	140	83,5	44	18,5	161	19,5

Order No.	Version 1	A	B3	D	D2	H	H1	H2	H3	L	L2	T
06500-110802	reamed hole with slot	80	2	24	8	85.5	49	29	13	104	13	9
06500-111003	reamed hole with slot	80	3	24	10	85.5	49	29	13	104	13	11,4
06500-121003	reamed hole with slot	100	3	29	10	105	59,5	36	13	129	16	11,4
06500-121204	reamed hole with slot	100	4	29	12	105	59,5	36	13	129	16	13,8
06500-131204	reamed hole with slot	125	4	36	12	140	83,5	44	18,5	161	19,5	13,8
06500-131405	reamed hole with slot	125	5	36	14	140	83,5	44	18,5	161	19,5	16,3

Order No.	Version 1	A	D	H	H1	H2	H3	L	L2	SW
06500-2108	square socket	80	24	85.5	49	29	13	104	13	8
06500-2110	square socket	80	24	85.5	49	29	13	104	13	10
06500-2210	square socket	100	29	105	59,5	36	13	129	16	10
06500-2212	square socket	100	29	105	59,5	36	13	129	16	12
06500-2312	square socket	125	36	140	83,5	44	18,5	161	19,5	12
06500-2314	square socket	125	36	140	83,5	44	18,5	161	19,5	14

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Crank handles

with revolving grip



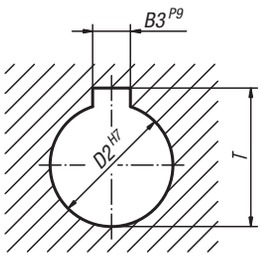
Material:
Black grey thermoplastic.

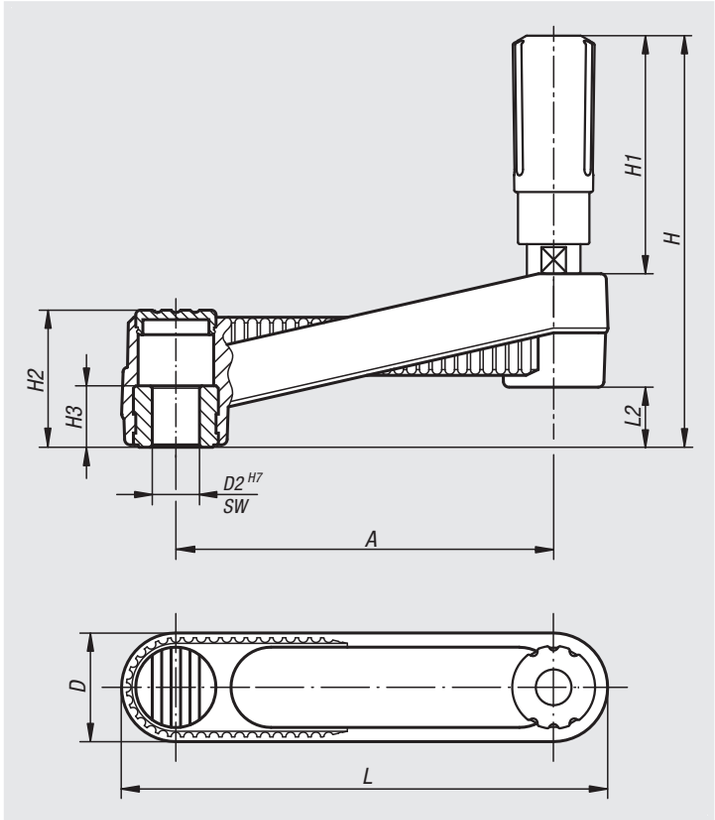
Version:
Steel parts black oxidised.

Sample order:
nlm 06500-3108

Note:
The hub cap and the revolving grip are supplied loose.
To assemble the handle simply screw the grip into the existing hole.
The crank handles can be secured to a shaft by using a transverse pin or by parallel key connection together with a DIN 6912 cap screw and a DIN 7349 washer.

DIN 6885-1





Order No.	Version 1	A	D	D2	H	H1	H2	H3	L	L2
06500-3108	reamed hole	80	24	8	85.5	49	29	13	104	13
06500-3110	reamed hole	80	24	10	85.5	49	29	13	104	13
06500-3210	reamed hole	100	29	10	105	59,5	36	13	129	16
06500-3212	reamed hole	100	29	12	105	59,5	36	13	129	16
06500-3312	reamed hole	125	36	12	140	83,5	44	18,5	161	19,5
06500-3314	reamed hole	125	36	14	140	83,5	44	18,5	161	19,5

Order No.	Version 1	A	B3	D	D2	H	H1	H2	H3	L	L2	T
06500-310802	reamed hole with slot	80	2	24	8	85.5	49	29	13	104	13	9
06500-311003	reamed hole with slot	80	3	24	10	85.5	49	29	13	104	13	11,4
06500-321003	reamed hole with slot	100	3	29	10	105	59,5	36	13	129	16	11,4
06500-321204	reamed hole with slot	100	4	29	12	105	59,5	36	13	129	16	13,8
06500-331204	reamed hole with slot	125	4	36	12	140	83,5	44	18,5	161	19,5	13,8
06500-331405	reamed hole with slot	125	5	36	14	140	83,5	44	18,5	161	19,5	16,3

Order No.	Version 1	A	D	H	H1	H2	H3	L	L2	SW
06500-4108	square socket	80	24	85.5	49	29	13	104	13	8
06500-4110	square socket	80	24	85.5	49	29	13	104	13	10
06500-4210	square socket	100	29	105	59,5	36	13	129	16	10
06500-4212	square socket	100	29	105	59,5	36	13	129	16	12
06500-4312	square socket	125	36	140	83,5	44	18,5	161	19,5	12
06500-4314	square socket	125	36	140	83,5	44	18,5	161	19,5	14

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Crank handles

with safety grip



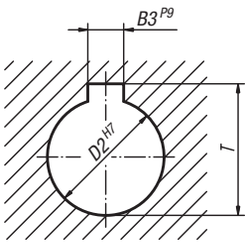
Material:
Arm and grip black grey thermoplastic.

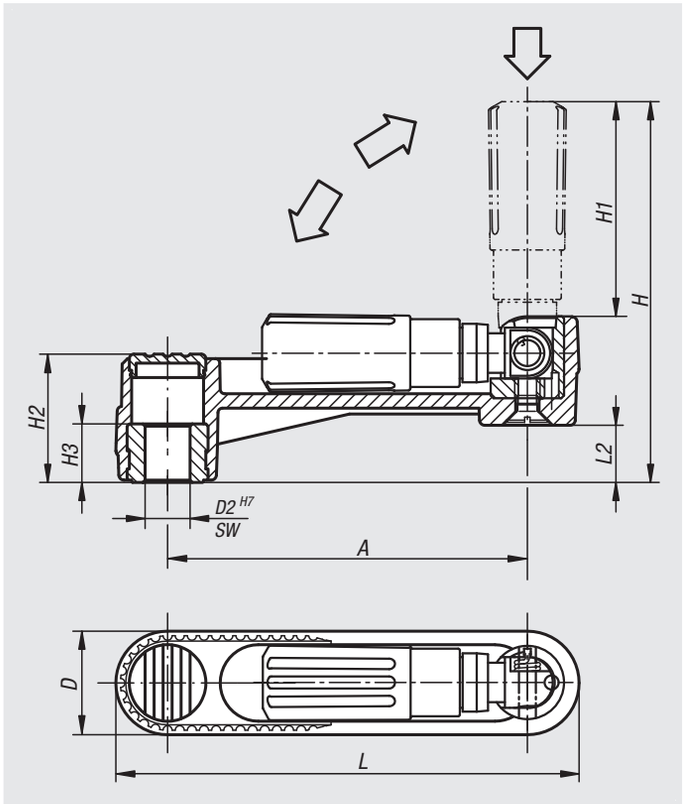
Version:
Steel parts black oxidised.

Sample order:
nlm 06502-1108

Note:
The hub cover is supplied loose.
The crank handles can be secured to the shaft by cross-pinning or by parallel key together with a DIN 6912 socket head screw and DIN 7349 washer.
Two actions must be made to bring the safety grip into an operating position:
- Swing the grip out until it stops (90°).
- Push the grip in until it locks.
The pushed-in position is the most comfortable for cranking. The grip swings back automatically after releasing.

DIN 6885-1





Order No.	Version 1	A	D	D2	H	H1	H2	H3	L	L2
06502-1108	reamed hole	80	24	8	84	47,5	29	13	104	13
06502-1110	reamed hole	80	24	10	84	47,5	29	13	104	13
06502-1210	reamed hole	100	29	10	104	58,5	36	13	129	16
06502-1212	reamed hole	100	29	12	104	58,5	36	13	129	16
06502-1312	reamed hole	125	36	12	138,5	82	44	18,5	161	19,5
06502-1314	reamed hole	125	36	14	138,5	82	44	18,5	161	19,5

Order No.	Version 1	A	B3	D	D2	H	H1	H2	H3	L	L2	T
06502-110802	reamed hole with slot	80	2	24	8	84	47,5	29	13	104	13	9
06502-111003	reamed hole with slot	80	3	24	10	84	47,5	29	13	104	13	11,4
06502-121003	reamed hole with slot	100	3	29	10	104	58,5	36	13	129	16	11,4
06502-121204	reamed hole with slot	100	4	29	12	104	58,5	36	13	129	16	13,8
06502-131204	reamed hole with slot	125	4	36	12	138,5	82	44	18,5	161	19,5	13,8
06502-131405	reamed hole with slot	125	5	36	14	138,5	82	44	18,5	161	19,5	16,3

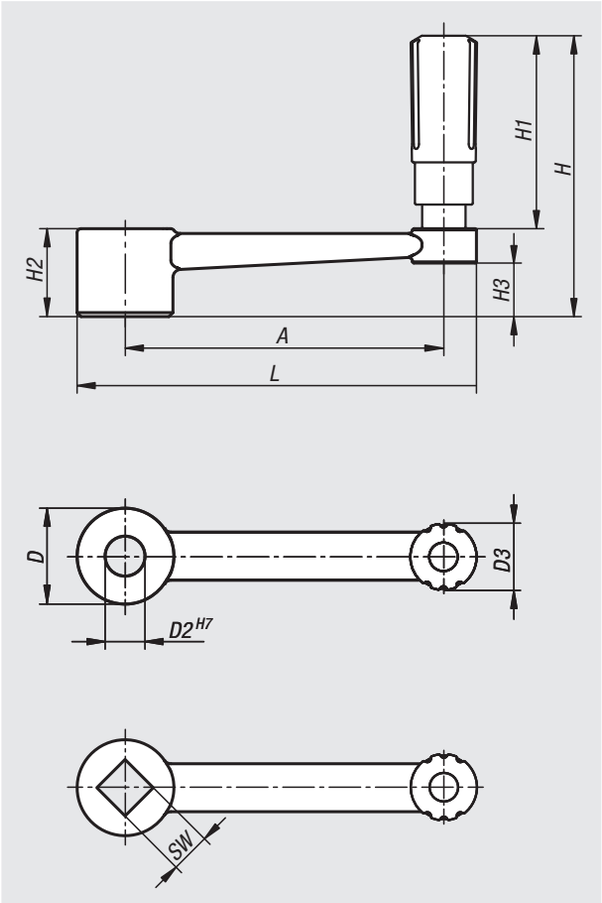
Order No.	Version 1	A	D	H	H1	H2	H3	L	L2	SW
06502-2108	square socket	80	24	84	47,5	29	13	104	13	8
06502-2110	square socket	80	24	84	47,5	29	13	104	13	10
06502-2210	square socket	100	29	104	58,5	36	13	129	16	10
06502-2212	square socket	100	29	104	58,5	36	13	129	16	12
06502-2312	square socket	125	36	138,5	82	44	18,5	161	19,5	12
06502-2314	square socket	125	36	138,5	82	44	18,5	161	19,5	14

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Crank handles aluminium

cylindrical revolving grip





Material:
Crank AlSi9Cu3 3.2163.
Revolving grip thermoplastic PA6 and steel 1.0718.

Version:
Crank black powder coated.
Thermoplastic black.
Steel parts black oxidised.

Sample order:
nlm 06503-3110

Note:
Similar to DIN 469.

Order No.	Version 1	A	D	D2	D3	H	H1	H2	H3	L
06503-3110	reamed hole	80	24	10	16	71,1	49,1	22	13,4	100
06503-3212	reamed hole	100	28	12	20	87,4	61,4	26	16	124
06503-3314	reamed hole	125	30	14	26	111	83	28	15,8	153
06503-3417	reamed hole	160	34	17	26	115	83	32	19,6	190

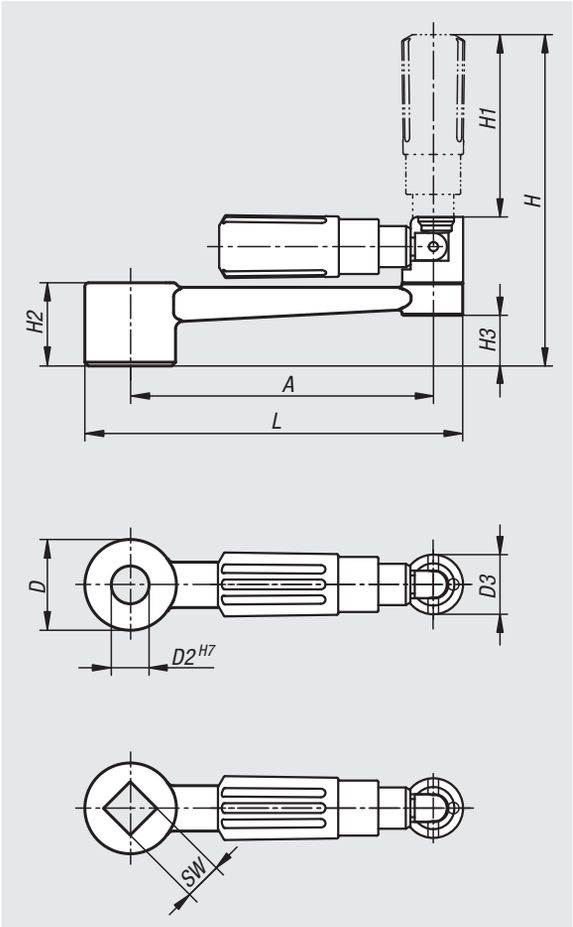
Order No.	Version 1	A	D	D3	H	H1	H2	H3	L	SW
06503-4110	square socket	80	24	16	71,1	49,1	22	13,4	100	10
06503-4212	square socket	100	28	20	87,4	61,4	26	16	124	12
06503-4314	square socket	125	30	26	111	83	28	15,8	153	14
06503-4417	square socket	160	34	26	115	83	32	19,6	190	17

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Crank handles aluminium

with fold-away cylinder grip





Material:
Crank AlSi9Cu3 3.2163.
Cylinder grip thermoplastic PA6 and steel.

Version:
Crank black powder coated.
Thermoplastic black.
Steel parts black oxidised.

Sample order:
nlm 06503-1110

Note:
Similar to DIN 469.

Order No.	Version 1	A	D	D2	D3	H	H1	H2	H3	L
06503-1110	reamed hole	80	24	10	16	89	49	22	13,4	100
06503-1212	reamed hole	100	28	12	20	107,9	59,4	26	16	124
06503-1314	reamed hole	125	30	14	26	140,5	83,5	28	15,8	153
06503-1417	reamed hole	160	34	17	26	144,5	83,5	32	19,6	190

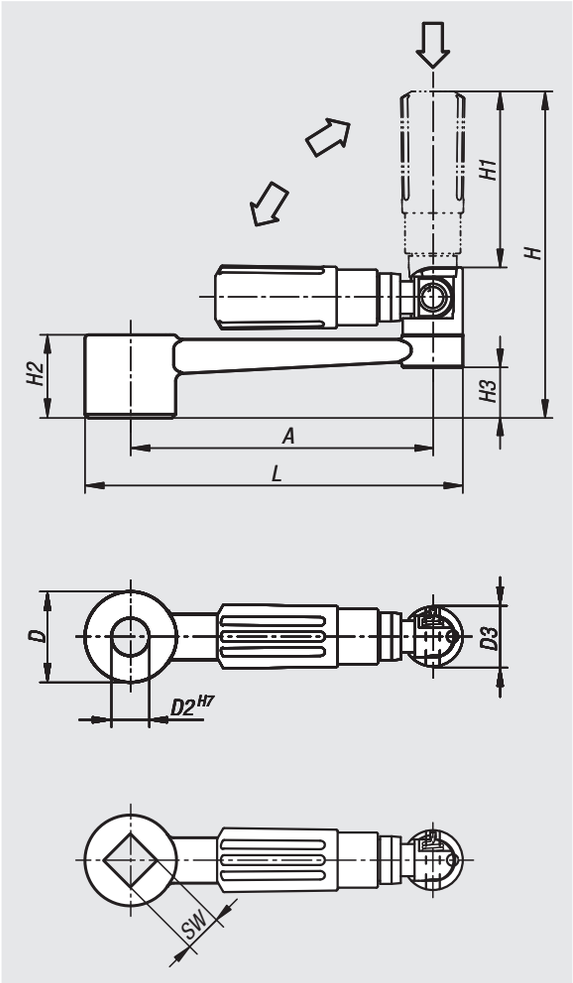
Order No.	Version 1	A	D	D3	H	H1	H2	H3	L	SW
06503-2110	square socket	80	24	16	89	49	22	13,4	100	10
06503-2212	square socket	100	28	20	107,9	59,4	26	16	124	12
06503-2314	square socket	125	30	26	140,5	83,5	28	15,8	153	14
06503-2417	square socket	160	34	26	144,5	83,5	32	19,6	190	17

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Crank handles aluminium

with safety cylinder grip





Material:
Crank AlSi9Cu3 3.2163.
Safety cylinder grip thermoplastic PA6 and steel.

Version:
Crank black powder coated.
Thermoplastic black.
Steel parts black oxidised.

Sample order:
nlm 06504-1110

Note:
Similar to DIN 469.

Order No.	Version 1	A	D	D2	D3	H	H1	H2	H3	L
06504-1110	reamed hole	80	24	10	16	87,5	47,5	22	13,4	100
06504-1212	reamed hole	100	28	12	20	106,9	58,4	26	16	124
06504-1314	reamed hole	125	30	14	26	139,1	82,1	28	15,8	153
06504-1417	reamed hole	160	34	17	26	143,1	82,1	32	19,6	190

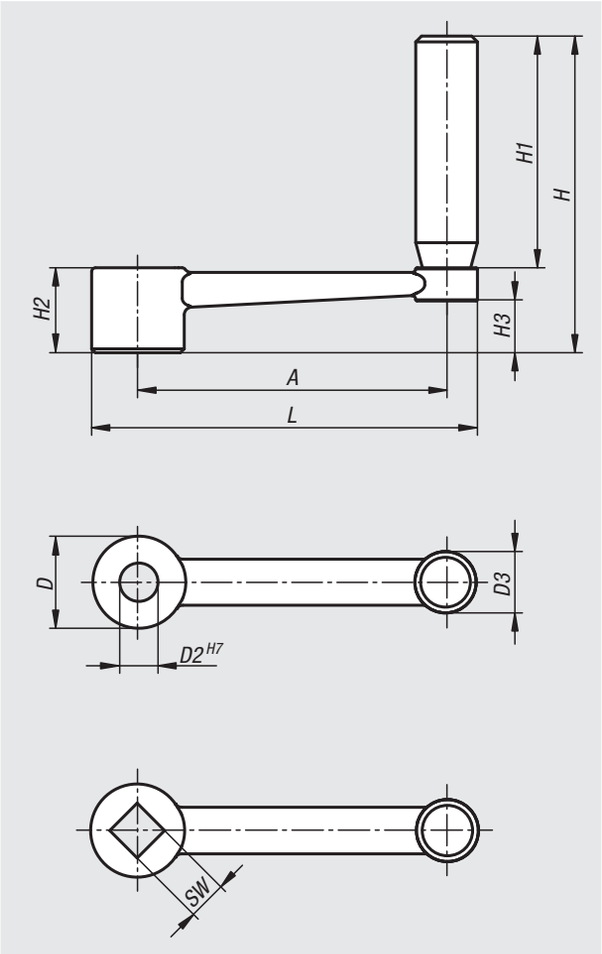
Order No.	Version 1	A	D	D3	H	H1	H2	H3	L	SW
06504-2110	square socket	80	24	16	87,5	47,5	22	13,4	100	10
06504-2212	square socket	100	28	20	106,9	58,4	26	16	124	12
06504-2314	square socket	125	30	26	139,1	82,1	28	15,8	153	14
06504-2417	square socket	160	34	26	143,1	82,1	32	19,6	190	17

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Crank handles stainless steel

cylindrical revolving grip





Material:
Crank stainless steel 1.4308.
Axle pin and revolving grip stainless steel 1.4305.
Retaining ring stainless steel 1.4310.

Version:
Bright.

Sample order:
nlm 06505-3110

Note:
Similar to DIN 469.

Order No.	Version 1	D	D2	D3	H	H1	H2	H3	A	L
06505-3110	reamed hole	24	10	16	82	60	22	13,4	80	100
06505-3212	reamed hole	28	12	20	98	72	26	16	100	124
06505-3314	reamed hole	30	14	26	118	90	28	15,8	125	153
06505-3417	reamed hole	34	17	26	122	90	32	19,6	160	190

Order No.	Version 1	D	D3	H	H1	H2	H3	A	L	SW
06505-4110	square socket	24	16	82	60	22	13,4	80	100	10
06505-4212	square socket	28	20	98	72	26	16	100	124	12
06505-4314	square socket	30	26	118	90	28	15,8	125	153	14
06505-4417	square socket	34	26	122	90	32	19,6	160	190	17

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Crank handles balanced

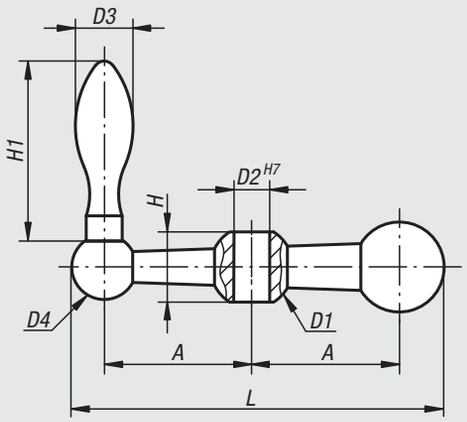


Material:
Steel.

Version:
Electro zinc-plated.

Sample order:
nlm 06510-108

Note:
Fixed handle DIN 39.



Order No.	A	D1	D2	D3	D4	H	H1	L
06510-107	25	16	7	10	13	13	32	65,5
06510-108	34	20	8	14	16	17	46	87
06510-110	41	23	10	16	18	19,5	50	103,5
06510-112	50	26	12	18	20	21,5	56	124

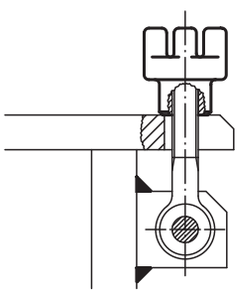
Bar knobs

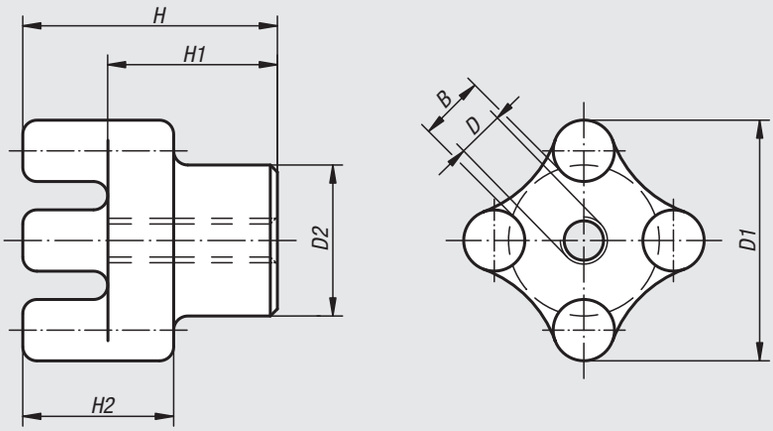


Material:
Malleable cast iron

Version:
Sand-blasted

Sample order:
nlm 06550-12





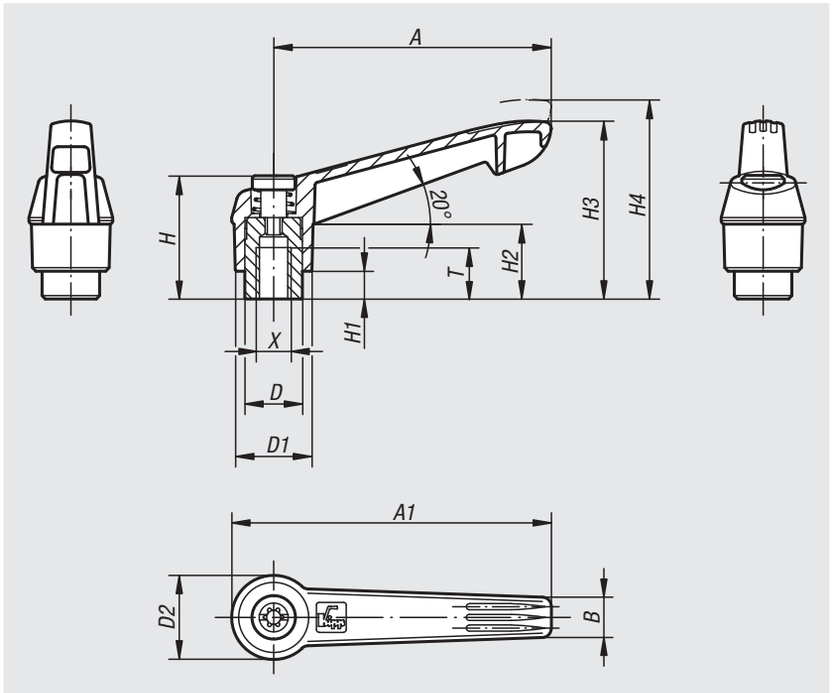
Order No.	B	D	D1	D2	H	H1	H2
06550-10	12	M10	51	32	54	36	32
06550-12	12	M12	51	32	54	36	32
06550-14	12	M14	51	32	54	36	32
06550-16	12	M16	51	32	54	36	32
06550-20	18	M20	64	38	60	40	35
06550-24	30	M24	90	57	70	40	45

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Clamping levers with plastic handle

internal thread





Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts black oxidised.

Sample order:
nlm 06600-10486 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey = 1



RAL 7021

orange = 2



RAL 2004

signal green = 86



RAL 6032

traffic red = 84



RAL 3020

colza yellow = 16



RAL 1021

traffic blue = 87



RAL 5017

light grey = 88



RAL 7035

lift to disengage



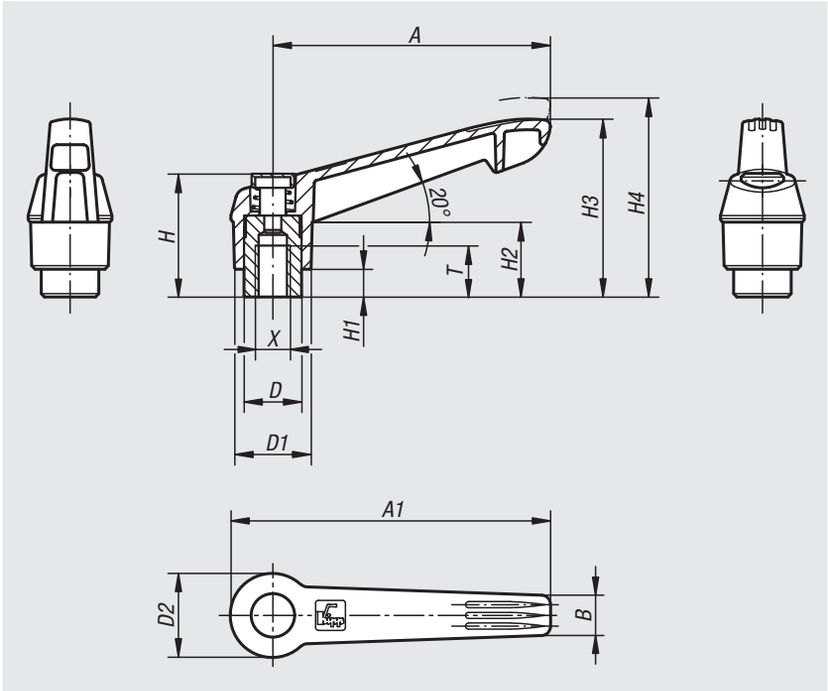
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06600-104Δ	M4	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06600-105Δ	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06600-106Δ	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06600-206Δ	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06600-208Δ	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06600-308Δ	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
06600-310Δ	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
06600-410Δ	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
06600-412Δ	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
06600-512Δ	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26
06600-516Δ	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26

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Clamping levers with push button

internal thread





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.
Push button plastic (POM).

Version:
Steel parts black oxidised.

Sample order:
nlm 06600-71104
(clamping lever black grey, push button traffic red)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

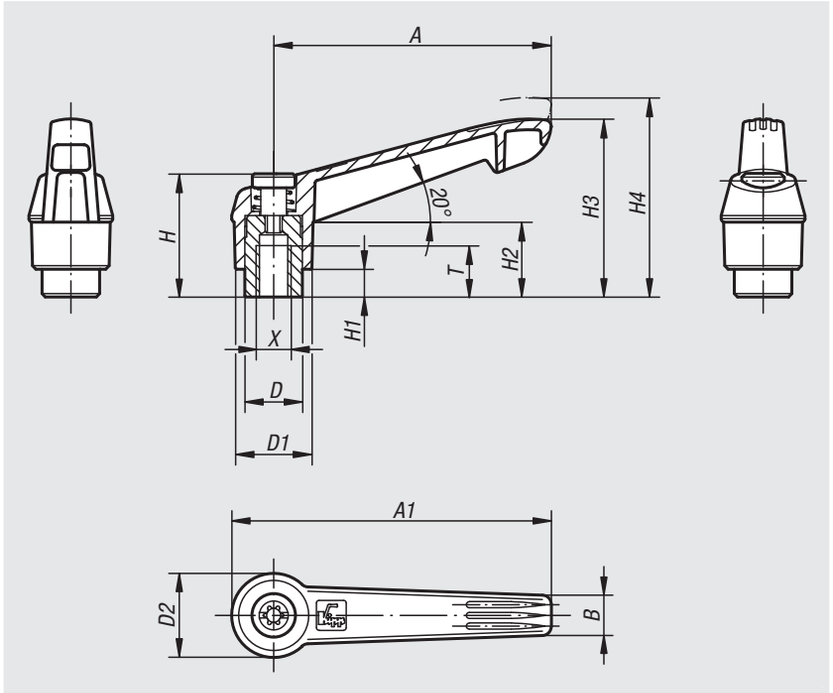
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06600-7Δ104	M4	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	9	16
06600-7Δ105	M5	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	9	16
06600-7Δ106	M6	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	9	16
06600-7Δ206	M6	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	12	20
06600-7Δ208	M8	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	12	20
06600-7Δ308	M8	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	14	22
06600-7Δ310	M10	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	14	22
06600-7Δ410	M10	95	109	13	19	25,5	27,5	44,6	10	26	61	66	17	24
06600-7Δ412	M12	95	109	13	19	25,5	27,5	44,6	10	26	61	66	17	24
06600-7Δ512	M12	110	126	15,5	23	30	32,5	50,6	12	33	72	77	23	26
06600-7Δ516	M16	110	126	15,5	23	30	32,5	50,6	12	33	72	77	23	26

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Clamping levers antistatic

internal thread, plastic grip





Material:
Handles reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.

Version:
Steel parts black oxidised, handles graphite black.

Sample order:
nlm 06600-1120624

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

lift to disengage



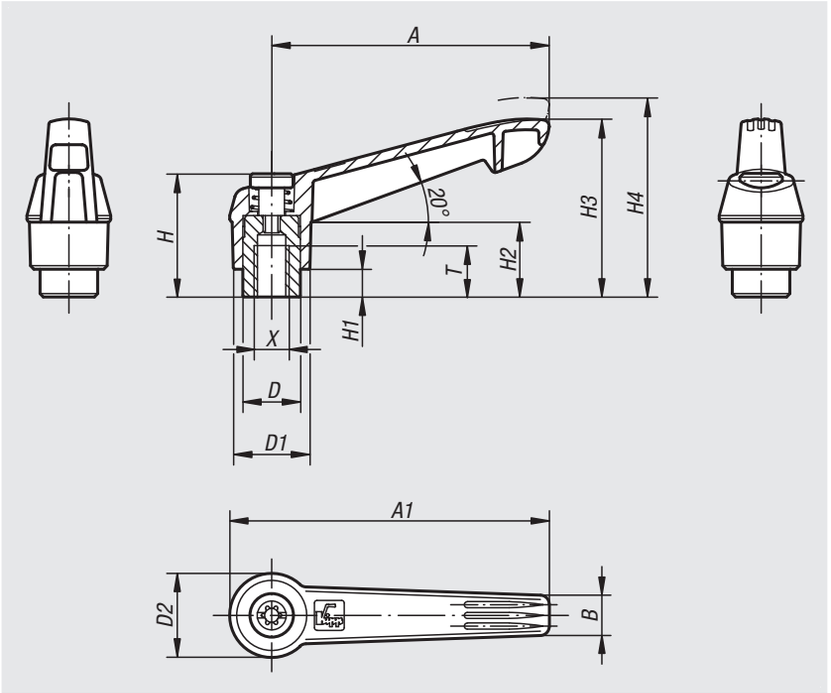
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06600-1120624	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06600-1120824	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20

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Clamping levers, plastic

with internal thread, steel parts trivalent blue passivated





Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts blue-passivated.

Sample order:
nlm 06600-05-10486 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey = 1



RAL 7021

orange = 2



RAL 2004

colza yellow = 16



RAL 1021

traffic red = 84



RAL 3020

signal green = 86



RAL 6032

traffic blue = 87



RAL 5017

light grey = 88



RAL 7035

lift to disengage



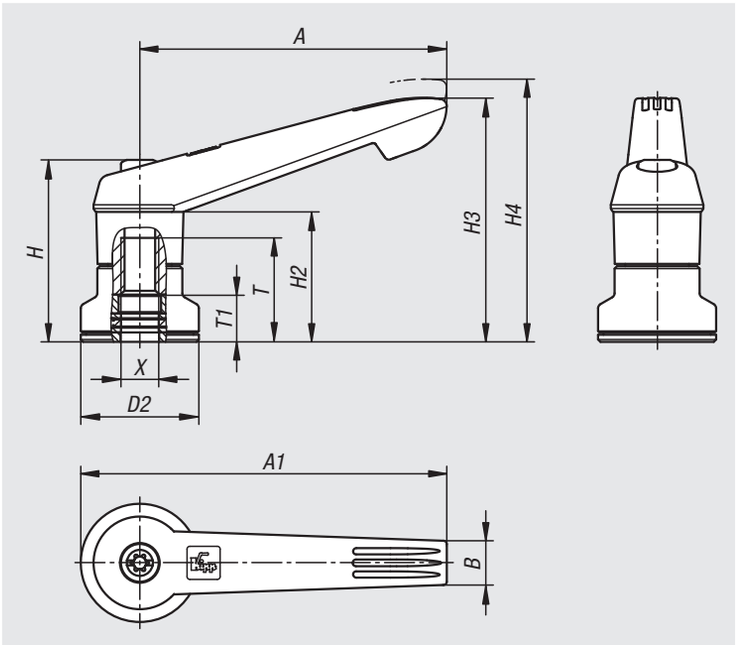
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06600-05-104Δ	M4	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06600-05-105Δ	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06600-05-106Δ	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06600-05-206Δ	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06600-05-208Δ	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06600-05-308Δ	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
06600-05-310Δ	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
06600-05-410Δ	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
06600-05-412Δ	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
06600-05-512Δ	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26
06600-05-516Δ	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26

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Clamping levers, plastic

with female thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06600-10-20886 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

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Clamping levers, plastic

with female thread and clamping force intensifier





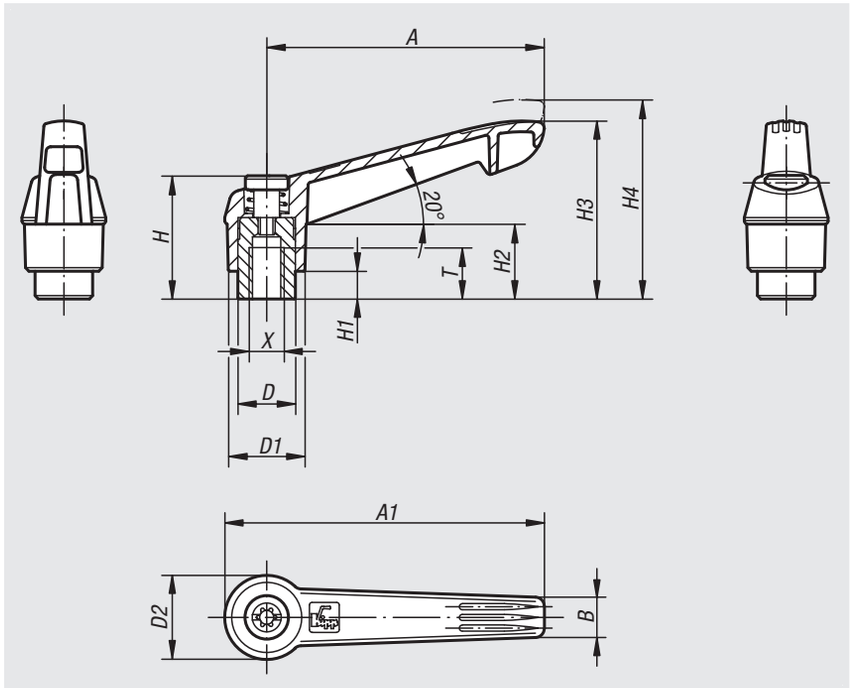
Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
06600-10-208Δ	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	22	10
06600-10-310Δ	M10	30	47	34	63,4	67,9	80	95	11,1	24	10
06600-10-410Δ	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	27	10
06600-10-512Δ	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	33	10

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Clamping levers with plastic handle

internal thread, metal parts stainless steel





Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
nlm 06601-10486 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey = 1



RAL 7021

orange = 2



RAL 2004

signal green = 86



RAL 6032

traffic red = 84



RAL 3020

colza yellow = 16



RAL 1021

traffic blue = 87



RAL 5017

light grey = 88



RAL 7035

lift to disengage



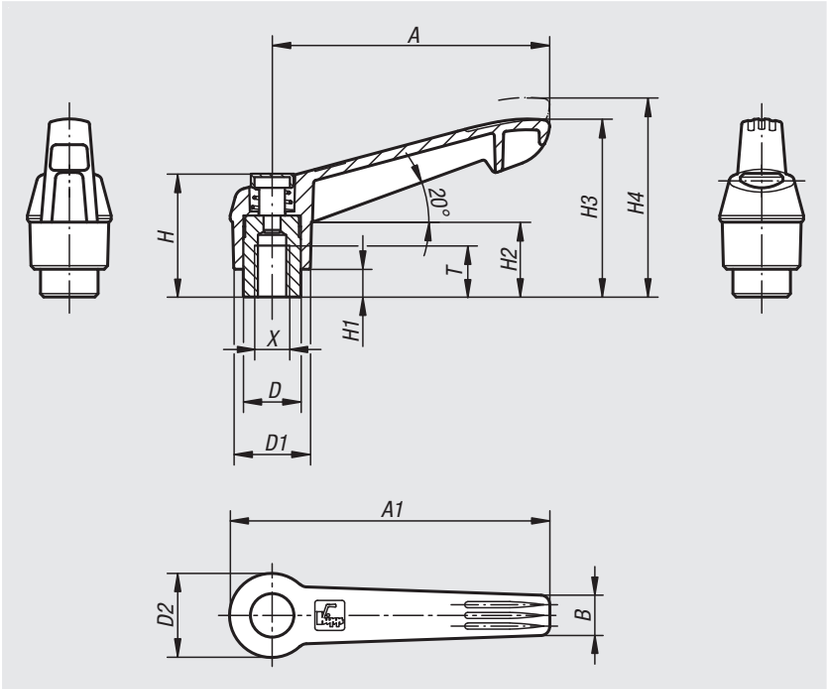
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06601-104Δ	M4	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06601-105Δ	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06601-106Δ	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
06601-206Δ	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06601-208Δ	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
06601-308Δ	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
06601-310Δ	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
06601-410Δ	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
06601-412Δ	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
06601-512Δ	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26
06601-516Δ	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26

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Clamping levers with push button

internal thread, metal parts stainless steel





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc. Metal parts stainless steel 1.4305.
Push button plastic (POM).

Version:
Steel parts bright.

Sample order:
nlm 06601-71104
(clamping lever black grey, push button traffic red)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

On request:
Other threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

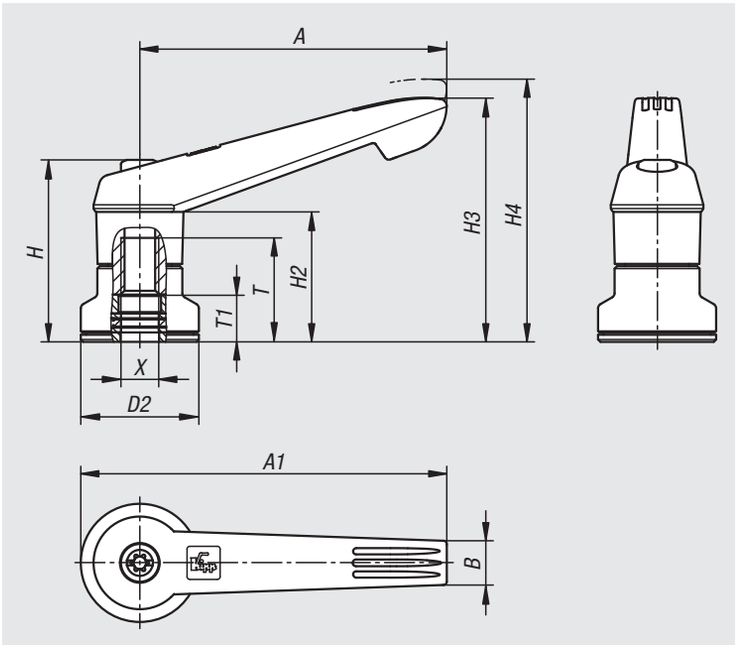
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
06601-7Δ104	M4	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	9	16
06601-7Δ105	M5	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	9	16
06601-7Δ106	M6	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	9	16
06601-7Δ206	M6	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	12	20
06601-7Δ208	M8	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	12	20
06601-7Δ308	M8	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	14	22
06601-7Δ310	M10	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	14	22
06601-7Δ410	M10	95	109	13	19	25,5	27,5	44,6	10	26	61	66	17	24
06601-7Δ412	M12	95	109	13	19	25,5	27,5	44,6	10	26	61	66	17	24
06601-7Δ512	M12	110	126	15,5	23	30	32,5	50,6	12	33	72	77	23	26
06601-7Δ516	M16	110	126	15,5	23	30	32,5	50,6	12	33	72	77	23	26

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Clamping levers, plastic

with female thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06601-10-20886 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

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Clamping levers, plastic

with female thread and clamping force intensifier





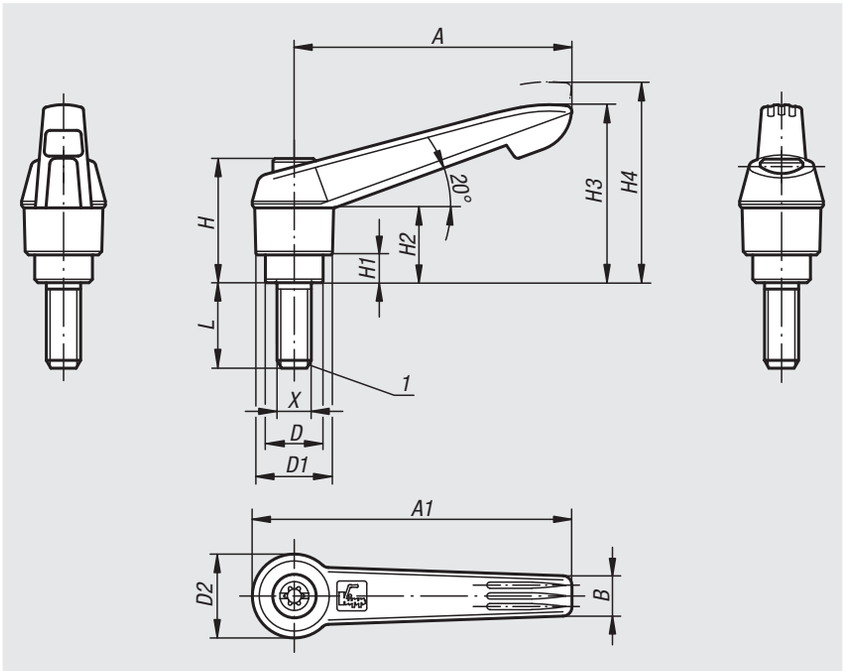
Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
06601-10-208Δ	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	22	10
06601-10-310Δ	M10	30	47	34	63,4	67,9	80	95	11,1	24	10
06601-10-410Δ	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	27	10
06601-10-512Δ	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	33	10

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Clamping levers with plastic handle

external thread





Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts black oxidised.

Sample order:
nlm 06610-1051X40 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



black grey = 1



RAL 7021

orange = 2



RAL 2004

signal green = 86



RAL 6032

traffic red = 84



RAL 3020

colza yellow = 16



RAL 1021

traffic blue = 87



RAL 5017

light grey = 88



RAL 7035

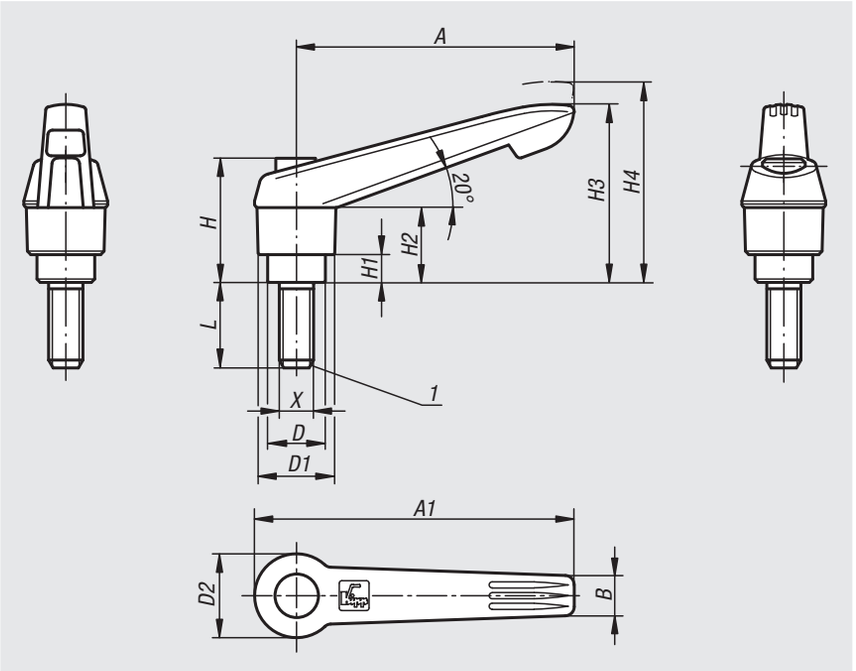
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06610-105ΔX	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
06610-106ΔX	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
06610-206ΔX	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-208ΔX	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-210ΔX	M10	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-308ΔX	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
06610-310ΔX	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
06610-410ΔX	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
06610-412ΔX	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
06610-512ΔX	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90
06610-516ΔX	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers with push button

with external thread





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.
Push button plastic (POM).

Version:
Steel parts black oxidised.

Sample order:
nlm 06610.71105X10
(clamping lever black grey, push button traffic red; include length L)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



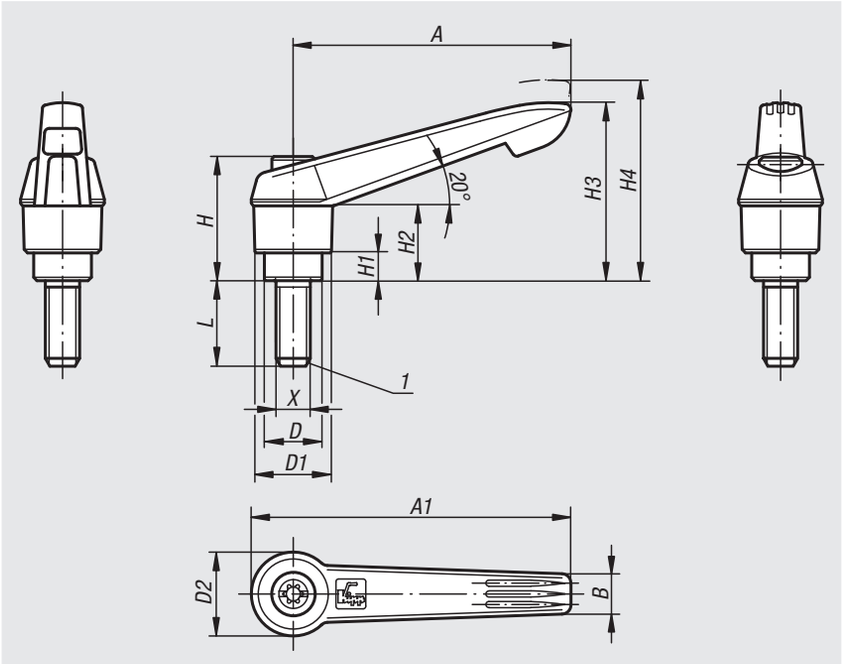
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06610-7Δ105X	M5	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
06610-7Δ106X	M6	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
06610-7Δ206X	M6	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-7Δ208X	M8	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-7Δ210X	M10	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-7Δ308X	M8	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
06610-7Δ310X	M10	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
06610-7Δ410X	M10	95	109	13	19	25,5	27,5	44,6	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
06610-7Δ412X	M12	95	109	13	19	25,5	27,5	44,6	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
06610-7Δ512X	M12	110	126	15,5	23	30	32,5	50,6	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90
06610-7Δ516X	M16	110	126	15,5	23	30	32,5	50,6	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers antistatic

external thread, plastic grip





Material:
Handles reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.

Version:
Steel parts black oxidised, handles graphite black.

Sample order:
nlm 06610-1120624X20

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity. Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Drawing reference:
1) flat point DIN 78

lift to disengage



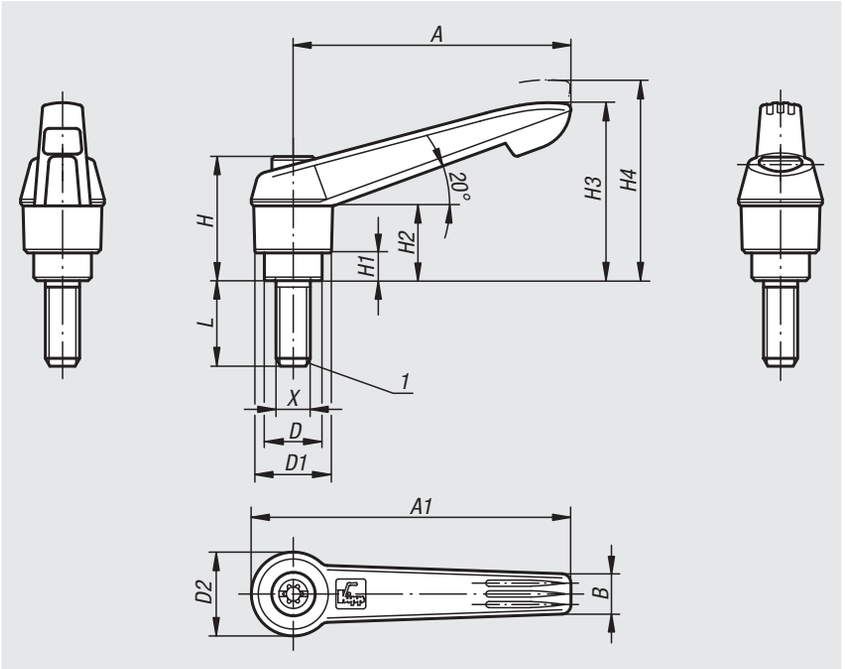
Order No.	X=thread	D	D1	D2	H	H1	H2	H3=handle height	H4	A	A1=handle length	B	No. of teeth	L=thread length
06610-1120624X20	M6	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20
06610-1120824X20	M8	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20
06610-1121024X20	M10	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20

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Clamping levers, plastic

with external thread, steel parts trivalent blue passivated





Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts blue-passivated.

Sample order:
nlm 06610-05-1051X40 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



black grey = 1



RAL 7021

orange = 2



RAL 2004

colza yellow = 16



RAL 1021

traffic red = 84



RAL 3020

signal green = 86



RAL 6032

traffic blue = 87



RAL 5017

light grey = 88



RAL 7035

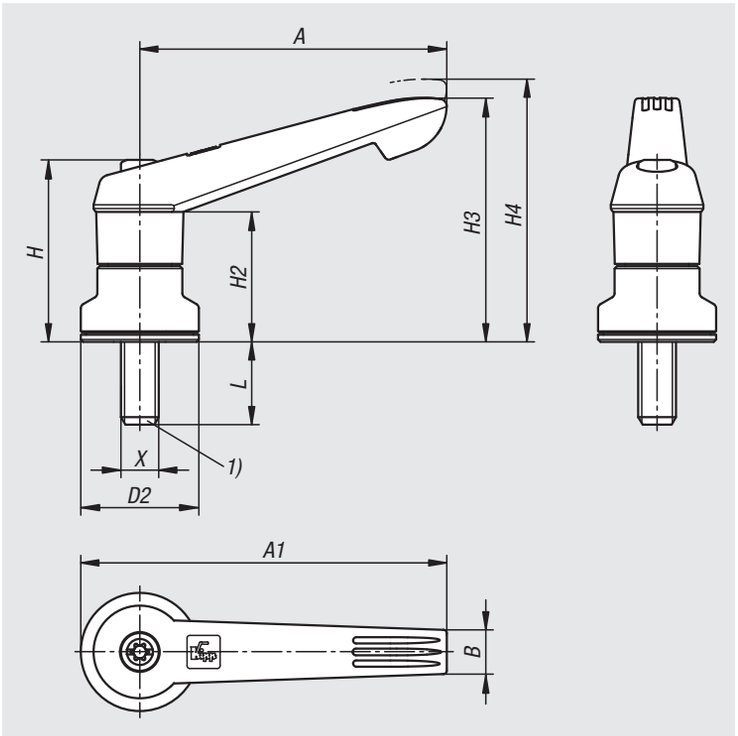
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06610-05-105ΔX	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
06610-05-106ΔX	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
06610-05-206ΔX	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-05-208ΔX	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-05-210ΔX	M10	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
06610-05-308ΔX	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
06610-05-310ΔX	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
06610-05-410ΔX	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
06610-05-412ΔX	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
06610-05-512ΔX	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90
06610-05-516ΔX	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90

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Clamping levers, plastic

with male thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06610-10-2081X40 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Special versions.
Other colours and thread lengths.

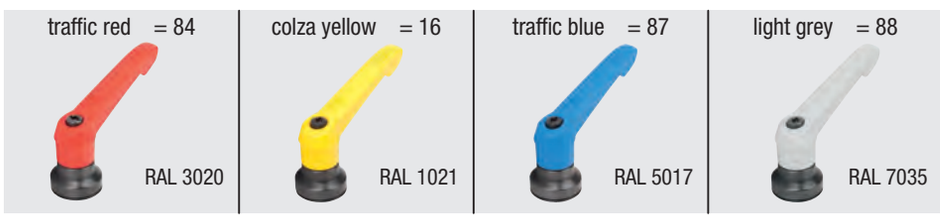
Drawing reference:
1) flat point DIN 78

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Clamping levers, plastic

with male thread and clamping force intensifier







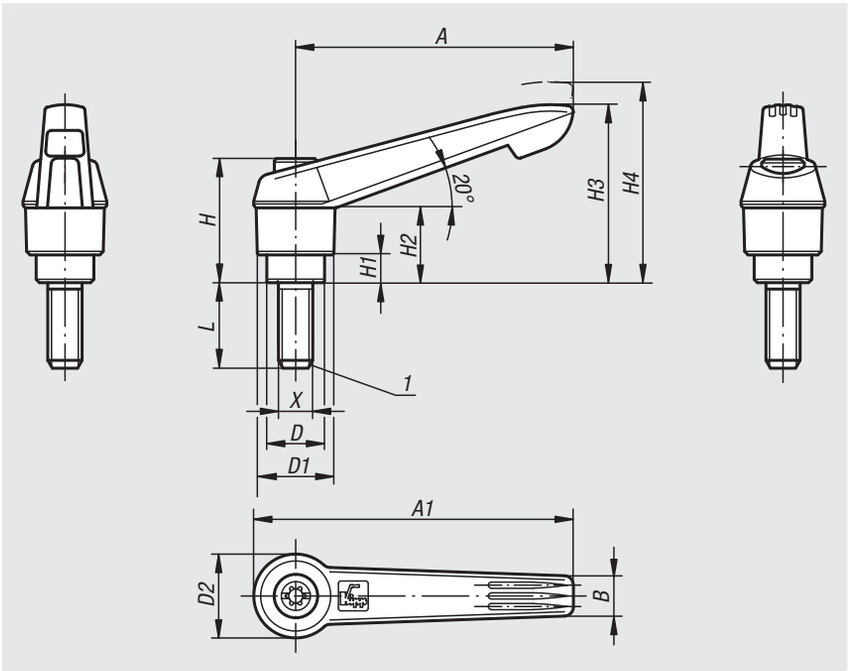
Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
06610-10-208ΔX	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	10/20/30/40
06610-10-310ΔX	M10	30	47	34	63,4	67,9	80	95	11,1	15/30/40/50
06610-10-410ΔX	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	20/30/40/50
06610-10-512ΔX	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	20/30/40/50

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Clamping levers with plastic handle

external thread, metal parts stainless steel





Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
nlm 06611-1051X20 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



black grey = 1 — RAL 7021



orange = 2 — RAL 2004



signal green = 86 — RAL 6032



traffic red = 84 — RAL 3020



colza yellow = 16 — RAL 1021



traffic blue = 87 — RAL 5017



light grey = 88 — RAL 7035



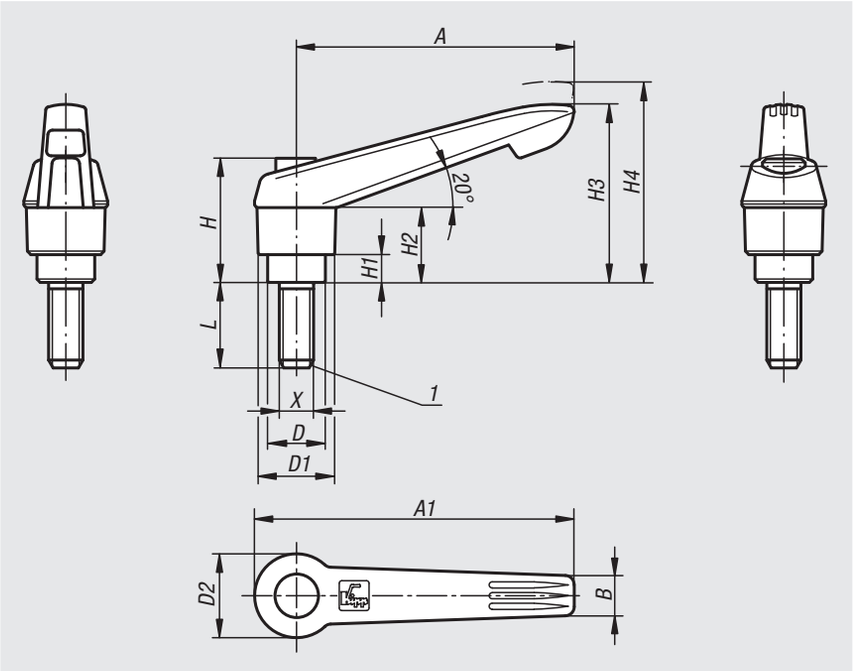
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06611-105ΔX	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25
06611-106ΔX	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/40/50
06611-206ΔX	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/40/50/60
06611-208ΔX	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/40/50/60
06611-210ΔX	M10	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	20/25/30/40/50/60
06611-308ΔX	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	20/25/30/40/50/60
06611-310ΔX	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	20/25/30/40/50/60
06611-412ΔX	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	24	25/30/40/50/60
06611-516ΔX	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	26	30/40/50/60

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Clamping levers with push button

external thread, metal parts stainless steel





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc. Metal parts stainless steel 1.4305.
Push button plastic (POM).

Version:
Steel parts bright.

Sample order:
nlm 06611.71105X10
(clamping lever black grey, push button traffic red; include length L)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

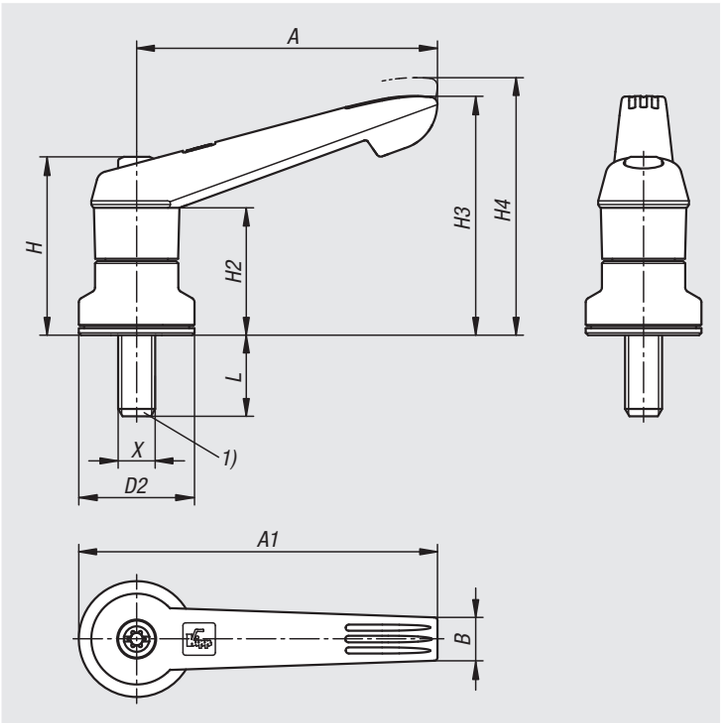
Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
06611-7Δ105X	M5	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	16	10/15/20/25
06611-7Δ106X	M6	40	47	7,5	10	13	14,5	25,5	4	15	30	33,5	16	10/15/20/25/30/40/50
06611-7Δ206X	M6	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	20	15/20/25/30/40/50/60
06611-7Δ208X	M8	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	20	15/20/25/30/40/50/60
06611-7Δ210X	M10	65	75	9,5	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	20	20/25/30/40/50/60
06611-7Δ308X	M8	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	22	20/25/30/40/50/60
06611-7Δ310X	M10	80	91,5	11	16	21,5	23	38,5	10	24	53,5	58	22	20/25/30/40/50/60
06611-7Δ412X	M12	95	109	13	19	25,5	27,5	44,6	10	26	61	66	24	25/30/40/50/60
06611-7Δ516X	M16	110	126	15,5	23	30	32,5	50,6	12	33	72	77	26	30/40/50/60

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Clamping levers, plastic

with male thread and clamping force intensifier





By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
nlm 06611-10-2081X40 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Special versions.
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

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Clamping levers, plastic

with male thread and clamping force intensifier

black grey = 1



RAL 7021

orange = 2



RAL 2004

signal green = 86



RAL 6032

traffic red = 84



RAL 3020

colza yellow = 16



RAL 1021

traffic blue = 87



RAL 5017

light grey = 88



RAL 7035



Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
06611-10-208ΔX	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	10/20/30/40
06611-10-310ΔX	M10	30	47	34	63,4	67,9	80	95	11,1	15/30/40/50
06611-10-410ΔX	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	20/30/40/50
06611-10-512ΔX	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	20/30/40/50

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Clamping levers with thrust pad



Material:
Handles fibreglass reinforced plastic with die-cast zinc toothed rings.
Steel parts grade 5.8.
Thrust pin, brass, steel or POM.
Ball in steel.

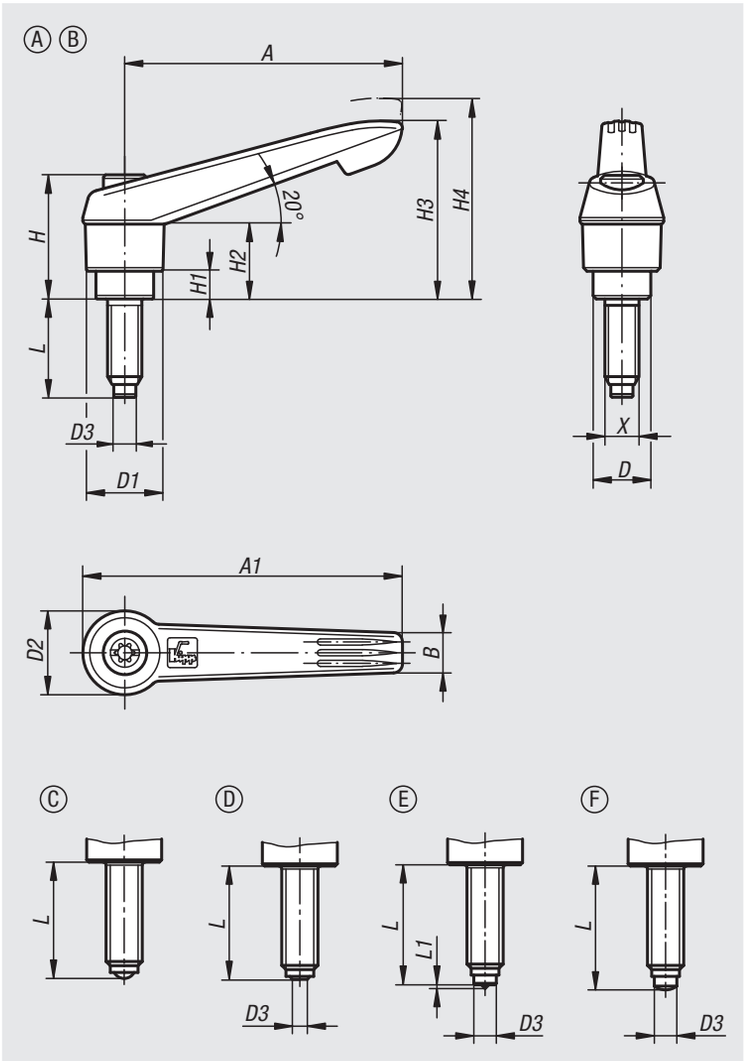
Version:
Steel parts black oxidised.

Sample order:
nlm 06612-12061X20 (include length L)

Note:
The various different thrust pins are used to avoid pressure marks, compensate for unevenness or increase the grip on the workpiece.
Where L ≥ 60 mm the thread length is always 60 mm.

On request:
Other threads, screw lengths, clamp lever colours and thrust pin types as well as special versions.
Dimension “H1” available in other lengths at extra cost.

Drawing reference:
Form A: brass thrust pin
Form B: POM thrust pin
Form C: with ball
Form D: with flattened ball
Form E: with point
Form F: with half-dog point



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Clamping levers with thrust pad





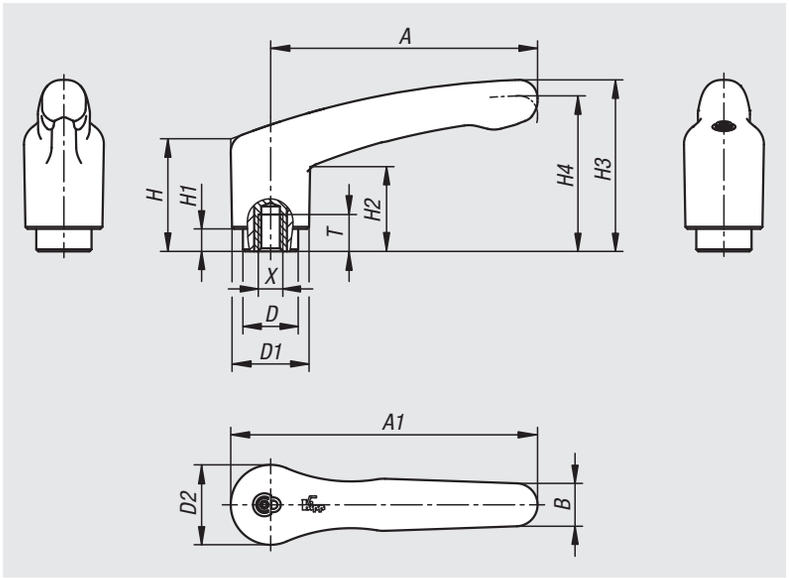
Order No.	Form	Component material	X	A	A1	B	D	D1	D2	D3	Ball Ø	H	H1	H2	H3	H4	L	L1	No. of teeth
06612-11051X	A	pin brass	M5	40	47	7,5	10	13	14,5	3	-	24,5	4	15	30	33,5	20/30/40/50	-	16
06612-11061X	A	pin brass	M6	40	47	7,5	10	13	14,5	4	-	24,5	4	15	30	33,5	20/30/40/50	-	16
06612-12061X	A	pin brass	M6	65	75	9,5	13,5	18	19,5	4	-	28,5	6,5	17,5	41,5	45,5	20/30/40/50/60	-	20
06612-12081X	A	pin brass	M8	65	75	9,5	13,5	18	19,5	5,5	-	28,5	6,5	17,5	41,5	45,5	20/30/40/50/60	-	20
06612-12101X	A	pin brass	M10	65	75	9,5	13,5	18	19,5	7	-	28,5	6,5	17,5	41,5	45,5	20/30/40/50/60	-	20
06612-21051X	B	pin POM	M5	40	47	7,5	10	13	14,5	3	-	24,5	4	15	30	33,5	20,5/30,5/40,5/50,5	-	16
06612-21061X	B	pin POM	M6	40	47	7,5	10	13	14,5	3,5	-	24,5	4	15	30	33,5	19,8/29,8/39,8/49,8	-	16
06612-22061X	B	pin POM	M6	65	75	9,5	13,5	18	19,5	3,5	-	28,5	6,5	17,5	41,5	45,5	19,8/29,8/39,8/49,8/59,8	-	20
06612-22081X	B	pin POM	M8	65	75	9,5	13,5	18	19,5	5	-	28,5	6,5	17,5	41,5	45,5	19,6/29,6/39,6/49,6/59,6	-	20
06612-22101X	B	pin POM	M10	65	75	9,5	13,5	18	19,5	6,5	-	28,5	6,5	17,5	41,5	45,5	19,9/29,9/39,9/49,9/59,9	-	20
06612-31051X	C	ball steel	M5	40	47	7,5	10	13	14,5	-	3	24,5	4	15	30	33,5	19,5/29,5/39,5/49,5	-	16
06612-31061X	C	ball steel	M6	40	47	7,5	10	13	14,5	-	4	24,5	4	15	30	33,5	19,3/29,3/39,3/49,3	-	16
06612-32061X	C	ball steel	M6	65	75	9,5	13,5	18	19,5	-	4	28,5	6,5	17,5	41,5	45,5	19,3/29,3/39,3/49,3/59,3	-	20
06612-32081X	C	ball steel	M8	65	75	9,5	13,5	18	19,5	-	5,5	28,5	6,5	17,5	41,5	45,5	19,2/29,2/39,2/49,2/59,2	-	20
06612-32101X	C	ball steel	M10	65	75	9,5	13,5	18	19,5	-	7	28,5	6,5	17,5	41,5	45,5	19,7/29,7/39,7/49,7/59,7	-	20
06612-41051X	D	ball steel	M5	40	47	7,5	10	13	14,5	2	3	24,5	4	15	30	33,5	19,1/29,1/39,1/49,1	-	16
06612-41061X	D	ball steel	M6	40	47	7,5	10	13	14,5	3	4	24,5	4	15	30	33,5	18,6/28,6/38,6/48,6	-	16
06612-42061X	D	ball steel	M6	65	75	9,5	13,5	18	19,5	3	4	28,5	6,5	17,5	41,5	45,5	18,6/28,6/38,6/48,6/58,6	-	20
06612-42081X	D	ball steel	M8	65	75	9,5	13,5	18	19,5	4,1	5,5	28,5	6,5	17,5	41,5	45,5	18,3/28,3/38,3/48,3/58,3	-	20
06612-42101X	D	ball steel	M10	65	75	9,5	13,5	18	19,5	5,6	7	28,5	6,5	17,5	41,5	45,5	18,3/28,3/38,3/48,3/58,3	-	20
06612-51051X	E	steel point	M5	40	47	7,5	10	13	14,5	3	-	24,5	4	15	30	33,5	20/30/40/50	0,5	16
06612-51061X	E	steel point	M6	40	47	7,5	10	13	14,5	4	-	24,5	4	15	30	33,5	20/30/40/50	0,8	16
06612-52061X	E	steel point	M6	65	75	9,5	13,5	18	19,5	4	-	28,5	6,5	17,5	41,5	45,5	20/30/40/50/60	0,8	20
06612-52081X	E	steel point	M8	65	75	9,5	13,5	18	19,5	5,5	-	28,5	6,5	17,5	41,5	45,5	20/30/40/50/60	1	20
06612-52101X	E	steel point	M10	65	75	9,5	13,5	18	19,5	7	-	28,5	6,5	17,5	41,5	45,5	20/30/40/50/60	1,5	20
06612-61051X	F	half-dog point steel	M5	40	47	7,5	10	13	14,5	3	-	24,5	4	15	30	33,5	20,5/30,5/40,5/50,5	-	16
06612-61061X	F	half-dog point steel	M6	40	47	7,5	10	13	14,5	4	-	24,5	4	15	30	33,5	20,8/30,8/40,8/50,8	-	16
06612-62061X	F	half-dog point steel	M6	65	75	9,5	13,5	18	19,5	4	-	28,5	6,5	17,5	41,5	45,5	20,8/30,8/40,8/50,8/60,8	-	20
06612-62081X	F	half-dog point steel	M8	65	75	9,5	13,5	18	19,5	5,5	-	28,5	6,5	17,5	41,5	45,5	20,8/30,8/40,8/50,8/60,8	-	20
06612-62101X	F	half-dog point steel	M10	65	75	9,5	13,5	18	19,5	7	-	28,5	6,5	17,5	41,5	45,5	20,9/30,9/40,9/50,9/60,9	-	20

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Clamping levers, plastic with safety function

with female thread





Clamping levers with safety function prevent changes in the locking point through accidental opening or closing.
In the default position, the lever can be freely rotated and has no connection to the clamping point. The grip lever only engages when pushed down and the clamp can the loosened or tightened. A spring sets the lever automatically into the default position when released.

Material:
Handle and insert made from reinforced plastic.
Bush, steel.

Sample order:
nlm 06613-10-2051

Advantages:
Protection against accidental opening or closing.
Closed grip contour without protruding edges.

On request:
Special versions.

press to
engage
(safety function)



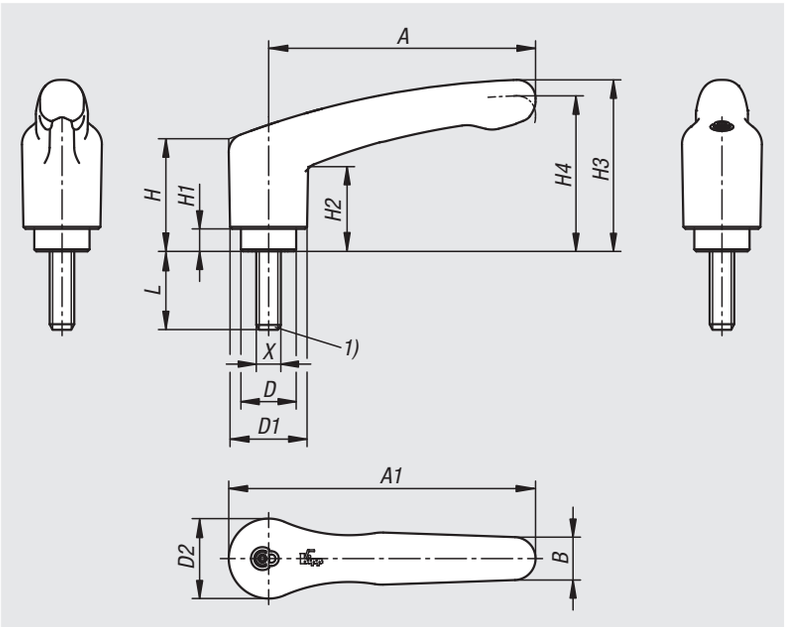
Order No.	Main colour	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
06613-10-2051	black grey RAL 7021	M5	7,5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
06613-10-2061	black grey RAL 7021	M6	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
06613-10-2081	black grey RAL 7021	M8	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
06613-10-20584	red RAL 3020	M5	7,5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
06613-10-20684	red RAL 3020	M6	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
06613-10-20884	red RAL 3020	M8	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12

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Clamping levers, plastic with safety function

with male thread





Clamping levers with safety function prevent changes in the locking point through accidental opening or closing.
In the default position, the lever can be freely rotated and has no connection to the clamping point. The grip lever only engages when pushed down and the clamp can the loosened or tightened. A spring sets the lever automatically into the default position when released.

Material:
Handle and insert reinforced plastic.
Screw steel 5.8.

Version:
Steel trivalent blue passivated.

Sample order:
nlm 06613-11-2051X20 (include length L)

Advantages:
Protection against accidental opening or closing.
Closed grip contour without protruding edges.

On request:
Special versions.

Drawing reference:
1) flat point DIN 78

press to engage (safety function)



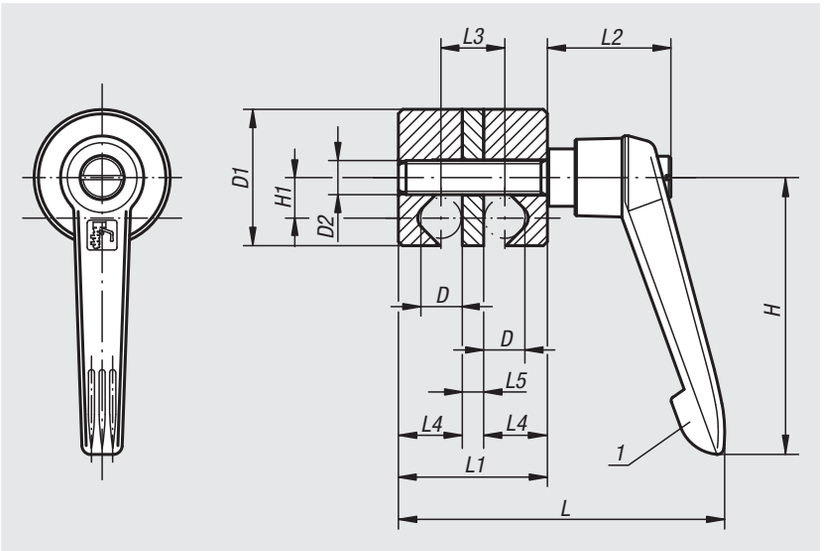
Order No.	Main colour	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	L	No. of teeth
06613-11-2051X	black grey RAL 7021	M5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
06613-11-2061X	black grey RAL 7021	M6	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
06613-11-2081X	black grey RAL 7021	M8	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
06613-11-20584X	red RAL 3020	M5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
06613-11-20684X	red RAL 3020	M6	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
06613-11-20884X	red RAL 3020	M8	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12

Notes

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Clamping joints





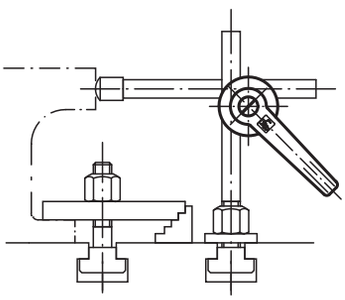
Material:
Clamping lever:
Handle fibreglass reinforced thermoplastic, black grey.
Steel parts:
grade 5.8.
Remaining components:
high-strength aluminium.

Version:
Steel parts black oxidised.
Aluminium nickel silver anodised.

Sample order:
nlm 06620-03

Note:
Clamping joints are used to clamp round cross sections (bars, tubes, etc.) and are infinitely adjustable.
The simple design together with the adjustable clamping lever permits rapid clamping.

Drawing reference:
1) Clamping lever



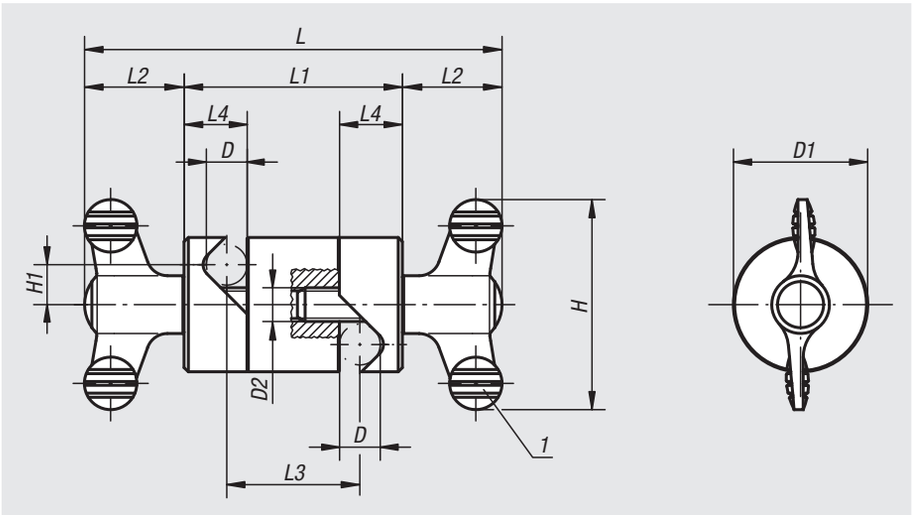
Order No.	D	D1	D2	H	H1	L	L1	L2	L3	L4	L5
06620-01	8	28	M8	65	8,5	72	31	29	13	13	5
06620-02	10	32	M8	65	9,5	76	35	29	15	15	5
06620-03	12	36	M8	65	10,5	81	40	29	18	17	6
06620-04	16	45	M10	80	13,5	103	50	37,5	22	22	6
06620-05	20	74	M10	95	22	131	70	42,5	30	30	10

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Clamping joints

individually adjustable





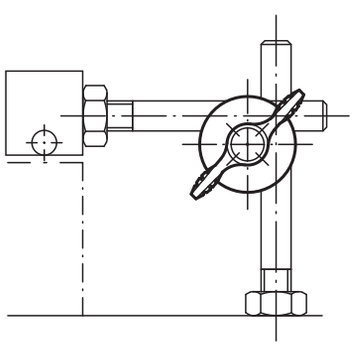
Material:
Wing grip:
grip black grey thermoplastic.
Screw steel 5.8.
Remaining components:
high-strength aluminium.

Version:
Steel parts trivalent blue-passivated.
Aluminium nickel silver anodised.

Sample order:
nlm 06621-02

Note:
Clamping joints are used to clamp round cross sections (bars, tubes, etc.) and are individually and infinitely adjustable.
The simple design together with the wing grip permits rapid clamping.

Drawing reference:
1) wing grip

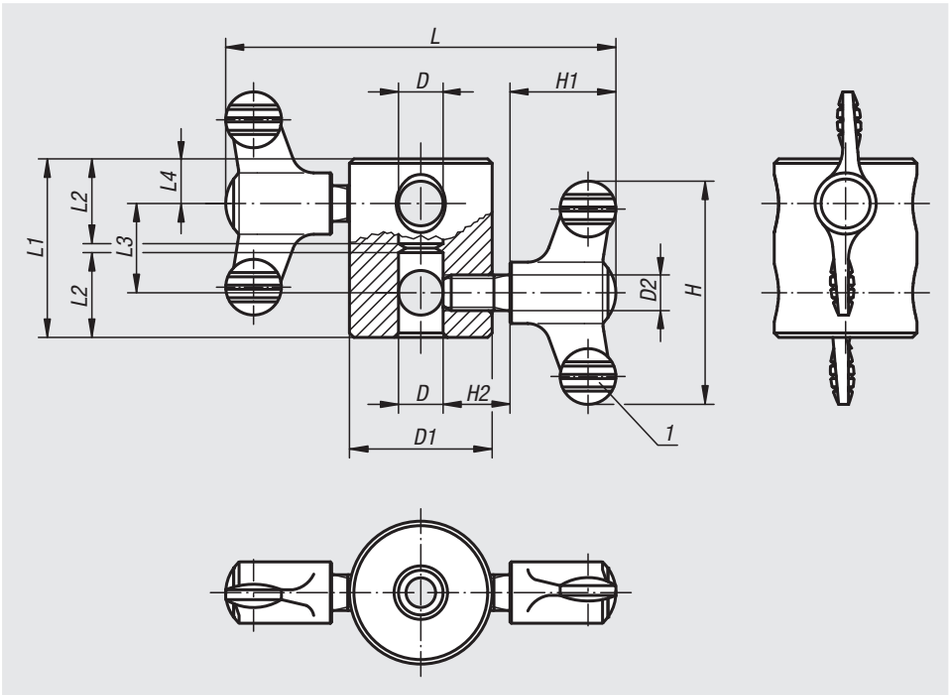


Order No.	D	D1	D2	H	H1	L	L1	L2	L3	L4
06621-01	8	28	M8	50	8,5	90	42	24	24	13
06621-02	10	32	M8	50	9,5	100	52	24	32	15
06621-03	12	36	M8	50	10,5	104	56	24	34	17
06621-04	16	45	M10	75	13,5	143,2	72	35,6	44	22
06621-05	20	74	M10	75	22	173,2	102	35,6	62	30

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Multiple connectors





Material:
Wing grip:
grip black grey thermoplastic.
Screw steel 5.8.
Body:
high-strength aluminium.

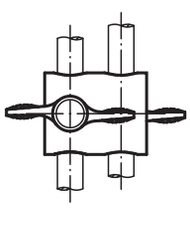
Version:
Steel parts trivalent blue-passivated.
Aluminium nickel silver anodised.

Sample order:
nlm 06622-04

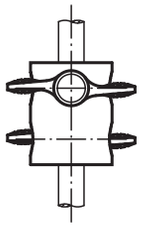
Note:
Multiple connectors are used to extend round cross sections (bars, tubes, etc.) in a coaxial or parallel arrangement.
By a parallel arrangement, a strengthening or stiffening of the construction can be achieved.
The bore system in the body also allows for the production of right-angled connections.

Drawing reference:
1) wing grip

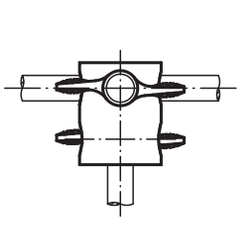
Arrangement:



parallel



coaxial



right-angled

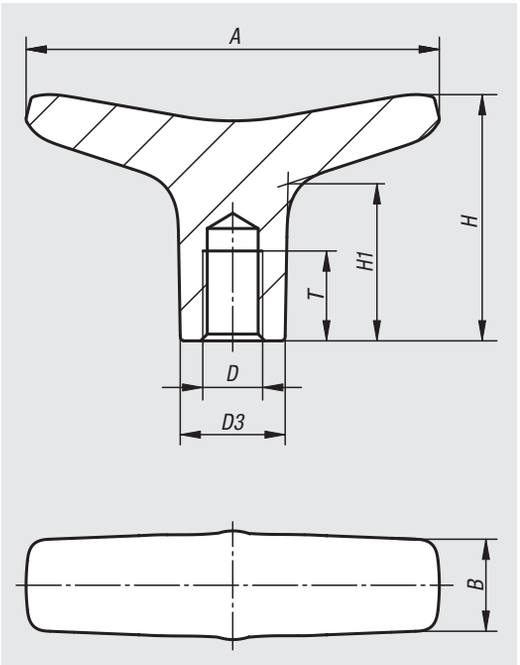
Order No.	D	D1	D2	H	H1	H2	L	L1	L2	L3	L4
06622-01	8	28	M8	50	24	15	86	36	17	20	8
06622-02	10	32	M8	50	24	15	88	40	19	20	10
06622-03	12	36	M8	50	24	15	90	44	21	20	12
06622-04	16	45	M10	75	35,6	20	127,2	56	27	24	16

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T-grips

stainless steel





Material:
Stainless steel 1.4308.

Version:
Electropolished or blasted.

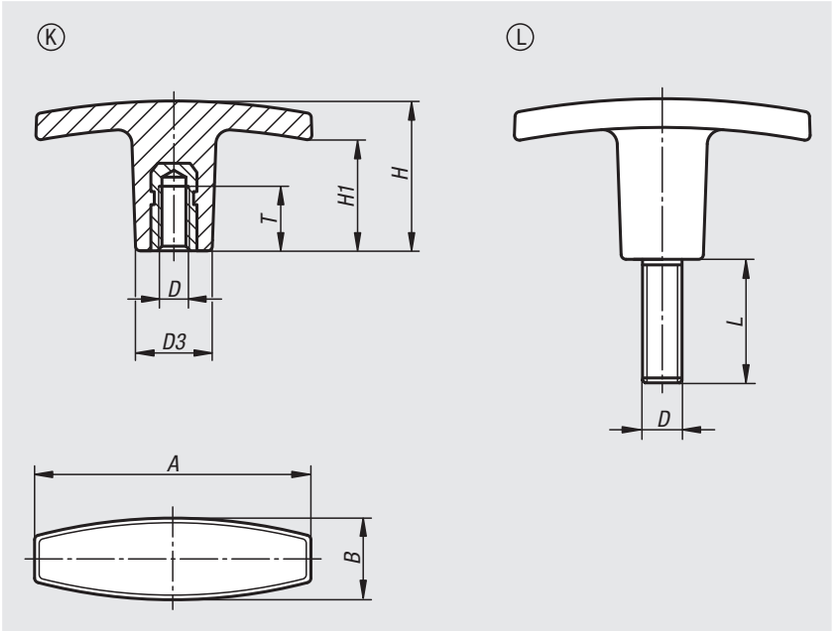
Sample order:
nlm 06648-55061

Order No.	Surface finish body	A	B	D	D3	H	H1	T
06648-55061	blasted	55,2	12,3	M6	14	32,9	21	12
06648-55081	blasted	55,2	12,3	M8	14	32,9	21	12
06648-65061	blasted	65,3	14	M6	16	37	22,7	16
06648-65081	blasted	65,3	14	M8	16	37	22,7	16
06648-65101	blasted	65,3	14	M10	16	37	22,7	16
06648-75101	blasted	75,3	17,8	M10	20	41,2	24,9	16
06648-75121	blasted	75,3	17,8	M12	20	41,2	24,9	16
06648-55062	electropolished	55,2	12,3	M6	14	32,9	21	12
06648-55082	electropolished	55,2	12,3	M8	14	32,9	21	12
06648-65062	electropolished	65,3	14	M6	16	37	22,7	16
06648-65082	electropolished	65,3	14	M8	16	37	22,7	16
06648-65102	electropolished	65,3	14	M10	16	37	22,7	16
06648-75102	electropolished	75,3	17,8	M10	20	41,2	24,9	16
06648-75122	electropolished	75,3	17,8	M12	20	41,2	24,9	16

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T-grips



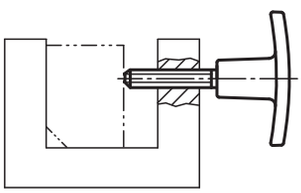


Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.
Screw steel.

Version:
Grip, black.
Screw electro zinc-plated.

Sample order:
nlm 06649-25005X15 (include length L)

On request:
Grip colour red, yellow, green, blue, white or grey (min. quanitity 1000).



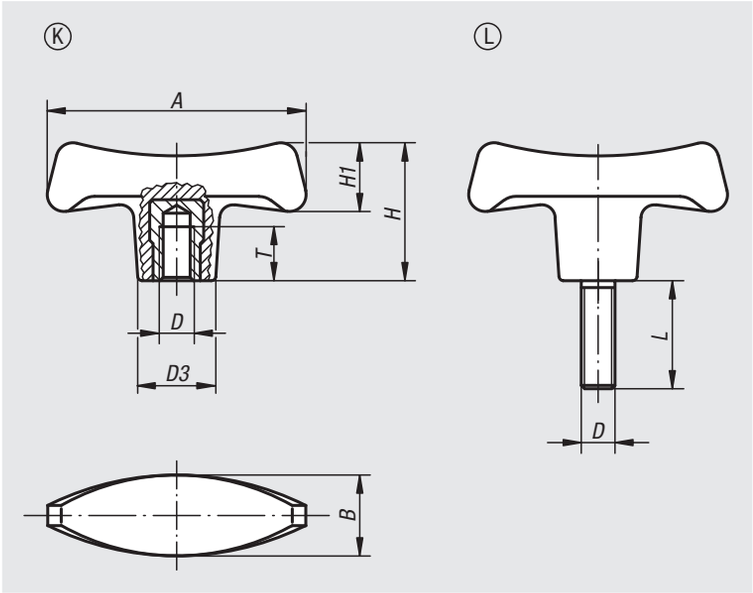
Order No.	Form	A	B	D	D3	H	H1	T
06649-14005	K	40	13	M5	13	30,5	20	10
06649-15005	K	50	15	M5	14	24	16	10
06649-16006	K	60	17	M6	16	31,5	23	12
06649-17108	K	71	19,5	M8	20	36	19	20
06649-17110	K	71	19,5	M10	20	36	19	20
06649-18010	K	80	26	M10	26	39,5	26	25
06649-18012	K	80	26	M12	26	39,5	26	25

Order No.	Form	A	B	D	D3	H	H1	L
06649-24005X	L	40	13	M5	13	30,5	20	15
06649-25005X	L	50	15	M5	14	24	16	15/20
06649-26006X	L	60	17	M6	16	31,5	23	20/25
06649-27108X	L	71	19,5	M8	20	36	19	20/30
06649-27110X	L	71	19,5	M10	20	36	19	20/30
06649-28010X	L	80	26	M10	26	39,5	26	30
06649-28012X	L	80	26	M12	26	39,5	26	40

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T-grips



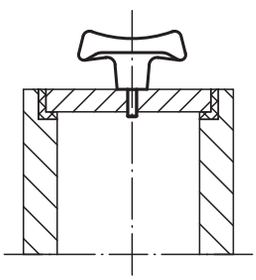


Material:
Thermoset PF 31, black.
Steel bush and stud, electro zinc-plated.

Version:
High-gloss polished.

Sample order:
nlm 06650-27006X18 (include length L)

On request:
Other screw sizes, screw lengths and colours.



Order No.	Form	A	B	D	D3	H	H1	T
06650-17006	K	70	22	M6	19,6	38,8	20,2	12
06650-17008	K	70	22	M8	19,6	38,8	20,2	14
06650-17010	K	70	22	M10	19,6	38,8	20,2	14
06650-18008	K	80	25	M8	22,3	44	23	14
06650-18010	K	80	25	M10	22,3	44	23	22
06650-19010	K	90	28	M10	25	49,6	26	22
06650-19012	K	90	28	M12	25	49,6	26	21

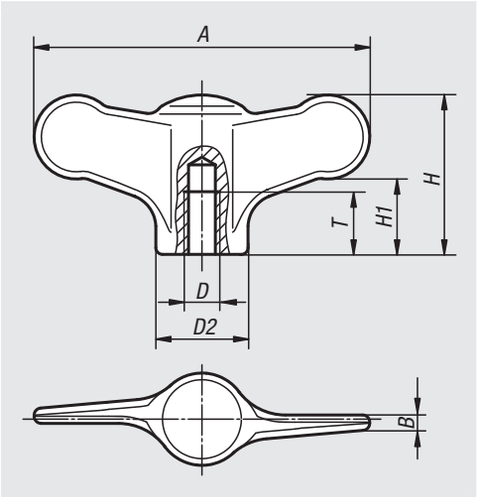
Order No.	Form	A	B	D	D3	H	H1	L
06650-27006X	L	70	22	M6	19,6	38,8	20,2	18
06650-27008X	L	70	22	M8	19,6	38,8	20,2	24
06650-28010X	L	80	25	M10	22,3	44	23	20/30
06650-29010X	L	90	28	M10	25	49,6	26	30
06650-29012X	L	90	28	M12	25	49,6	26	24

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Wing grips

internal thread, stainless steel





Material:
Stainless steel 1.4308.

Version:
Abrasive blasted or ground and polished.

Sample order:
nlm 06651-105

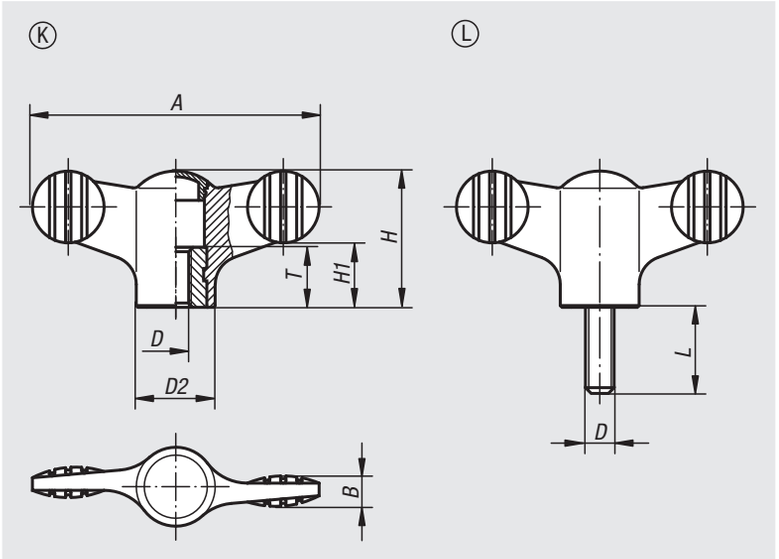
On request:
With external threads.

Order No.	Finish	A	B	D	D2	H	H1	T
06651-904	polished	38	1,7	M4	10,5	18	8,5	9
06651-905	polished	38	1,7	M5	10,5	18	8,5	9
06651-906	polished	38	1,7	M6	10,5	18	8,5	9
06651-105	polished	50	2,3	M5	14	24	11,5	12
06651-106	polished	50	2,3	M6	14	24	11,5	12
06651-208	polished	75	3,4	M8	21	35	16,5	15
06651-210	polished	75	3,4	M10	21	35	16,5	15
06651-9041	blasted	38	1,7	M4	10,5	18	8,5	9
06651-9051	blasted	38	1,7	M5	10,5	18	8,5	9
06651-9061	blasted	38	1,7	M6	10,5	18	8,5	9
06651-1051	blasted	50	2,3	M5	14	24	11,5	12
06651-1061	blasted	50	2,3	M6	14	24	11,5	12
06651-2081	blasted	75	3,4	M8	21	35	16,5	15
06651-2101	blasted	75	3,4	M10	21	35	16,5	15

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Wing grips





Material:
Grip black thermoplastic.
Bush and screw steel 5.8 or stainless steel 1.4305.

Version:
Bush or screw trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06652-1057X20 (cap colour colza yellow; include length L)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

Wing grips with internal thread

Order No. steel	Order No. stainless steel	A	B	D	D2	H	H1	T
06652-904Δ	06652-0904Δ	38	4,5	M4	12	18	8,5	10
06652-905Δ	06652-0905Δ	38	4,5	M5	12	18	8,5	10
06652-906Δ	06652-0906Δ	38	4,5	M6	12	18	8,5	10
06652-105Δ	06652-0105Δ	50	5	M5	14	24	11,5	10
06652-106Δ	06652-0106Δ	50	5	M6	14	24	11,5	10
06652-208Δ	06652-0208Δ	75	7	M8	21	35,6	16,5	14
06652-210Δ	06652-0210Δ	75	7	M10	21	35,6	16,5	14

Wing grips with external thread

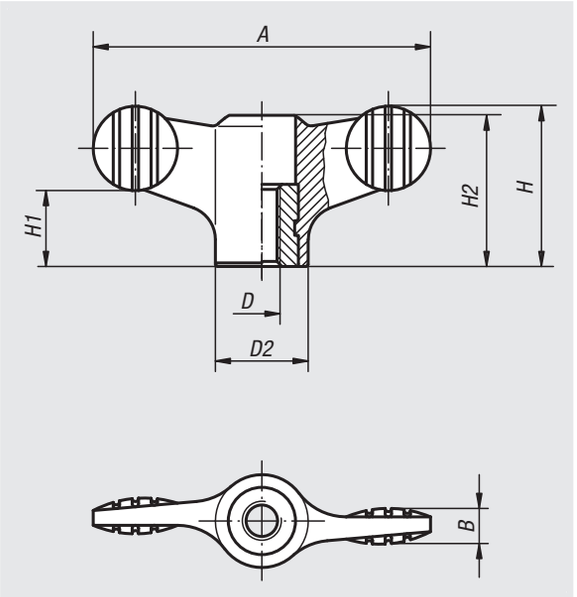
Order No. steel	Order No. stainless steel	A	B	D	D2	H	H1	L
06652-904ΔX	06652-0904ΔX	38	4,5	M4	12	18	8,5	10/15
06652-905ΔX	06652-0905ΔX	38	4,5	M5	12	18	8,5	15/20/30
06652-906ΔX	06652-0906ΔX	38	4,5	M6	12	18	8,5	20/30/40
06652-105ΔX	06652-0105ΔX	50	5	M5	14	24	11,5	15/20
06652-106ΔX	06652-0106ΔX	50	5	M6	14	24	11,5	20/30/40
06652-108ΔX	06652-0108ΔX	50	5	M8	14	24	11,5	20/30/40
06652-208ΔX	06652-0208ΔX	75	7	M8	21	35,6	16,5	20/30/40
06652-210ΔX	06652-0210ΔX	75	7	M10	21	35,6	16,5	20/30/40/50

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Wing grips

with tapped through bush





Material:
Grip thermoplastic.
Bush steel 5.8 or stainless steel 1.4305.

Version:
Steel trivalent blue passivated, stainless steel bright.

Sample order:
nlm 06652-1904

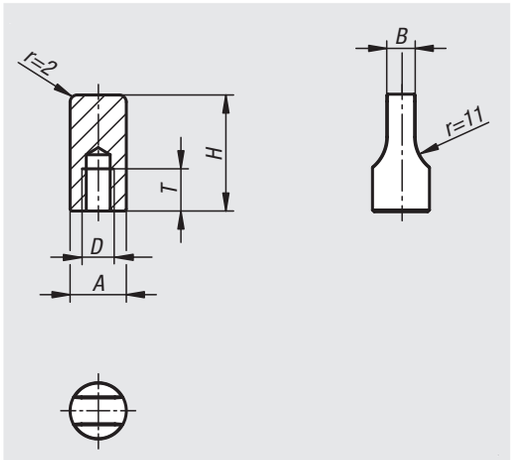
Order No.	Component material	A	B	D	D2	H	H1	H2
06652-1904	steel	38	4,5	M4	12	18	8,5	16,1
06652-1905	steel	38	4,5	M5	12	18	8,5	16,1
06652-1906	steel	38	4,5	M6	12	18	8,5	16,1
06652-1105	steel	50	5	M5	14	24	11,5	22
06652-1106	steel	50	5	M6	14	24	11,5	22
06652-1208	steel	75	7	M8	21	35,6	17	33,3
06652-1210	steel	75	7	M10	21	35,6	17	33,3
06652-10904	stainless steel	38	4,5	M4	12	18	8,5	16,1
06652-10905	stainless steel	38	4,5	M5	12	18	8,5	16,1
06652-10906	stainless steel	38	4,5	M6	12	18	8,5	16,1
06652-10105	stainless steel	50	5	M5	14	24	11,5	22
06652-10106	stainless steel	50	5	M6	14	24	11,5	22
06652-10208	stainless steel	75	7	M8	21	35,6	17	33,3
06652-10210	stainless steel	75	7	M10	21	35,6	17	33,3

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Wing nuts narrow

in Hygienic DESIGN





Material:
Stainless steel 1.4404.

Version:
Polished.

Sample order:
nlm 06651-03-04

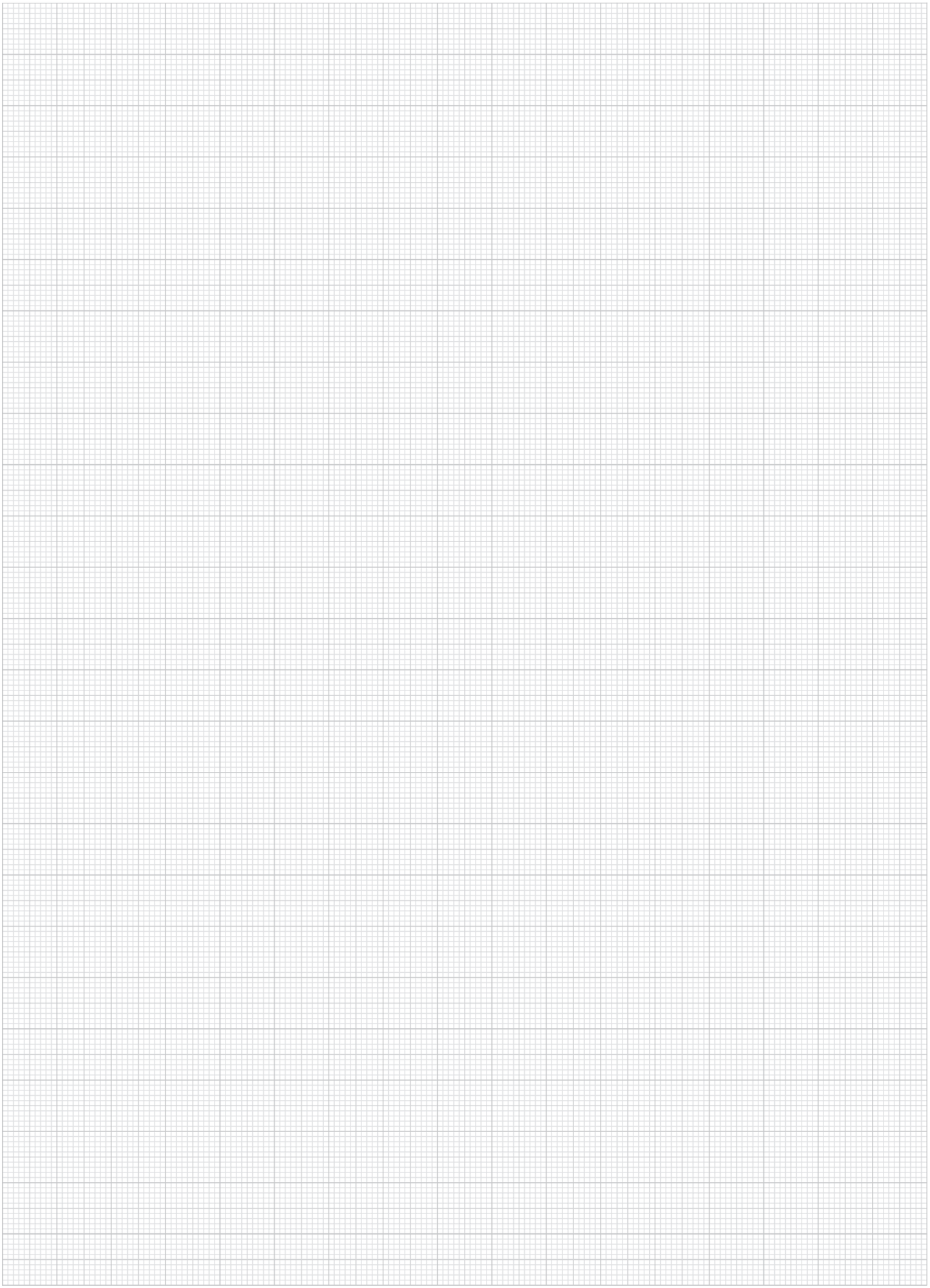
Note:
The wing nut makes simple screw connections feasible. They can be easily opened or re-tightened without tools.
The complete surface is polished with a surface finish of less than Ra 0.8 µm. The contour is rounded with smooth transitions. Due to the polished surface dirt and residue from products or cleaners seldom adheres. Easy cleaning is ensured.

On request:
Inch threads, external threads.

Wing nuts narrow in Hygienic DESIGN

Order No.	A	B	D	H	T
06651-03-04	9	4,5	M4	20	6
06651-03-05	10	4,5	M5	22	6
06651-03-06	12	5,5	M6	22	7
06651-03-08	16	8	M8	25	9
06651-03-10	20	10	M10	30	11

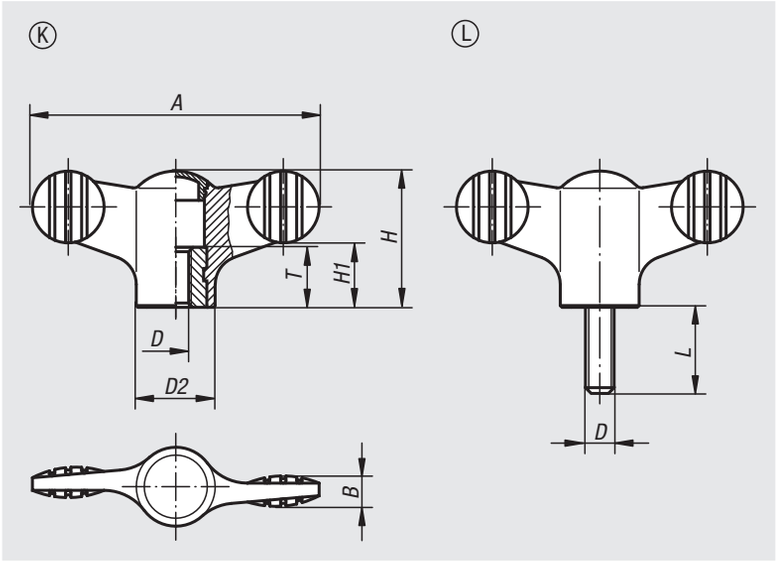
Notes



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Wing grips antistatic





Material:
Thermoplastic, graphite black.
Bush or screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
nlm 06652-1110624X20

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Wing grips antistatic with internal thread

Order No.	Form	A	B	D	D2	H	H1	T
06652-1110624	K	50	5	M6	14	24	11,5	10

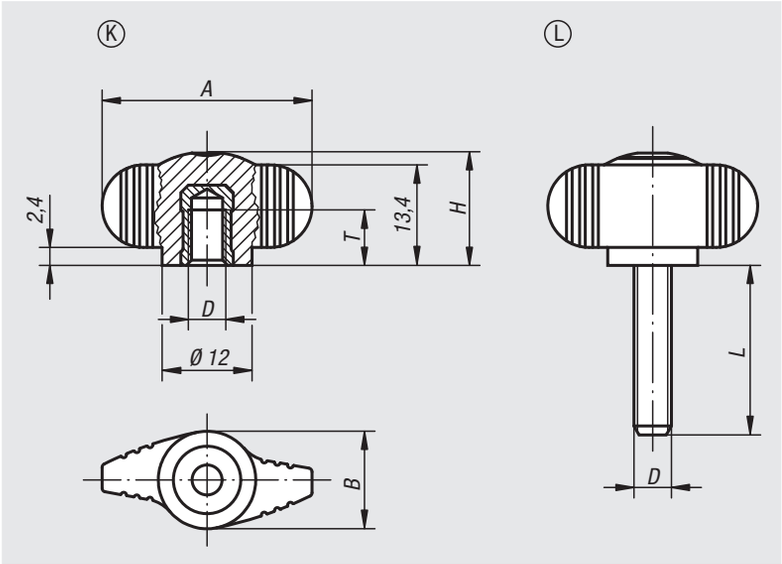
Wing grips antistatic with external thread

Order No.	Form	A	B	D	D2	H	H1	L
06652-1110624X20	L	50	5	M6	14	24	11,5	20

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Wing grips “Miniwing”





Material:
Grip black grey thermoplastic.
Bush brass or stainless steel 1.4305.
Screw steel 5.8 or stainless steel 1.4305.

Version:
Steel trivalent blue passivated.
Stainless steel, bright.

Sample order:
nlm 06652-005X10 (include length L)

Wing grips “Miniwing” with internal thread

Order No.	Form	Component material	A	B	D	H	T
06652-004	K	brass	28	13	M4	15	6
06652-005	K	brass	28	13	M5	15	7,5
06652-006	K	brass	28	13	M6	15	9
06652-0004	K	stainless steel	28	13	M4	15	6
06652-0005	K	stainless steel	28	13	M5	15	7,5
06652-0006	K	stainless steel	28	13	M6	15	9

Wing grips “Miniwing” with external thread

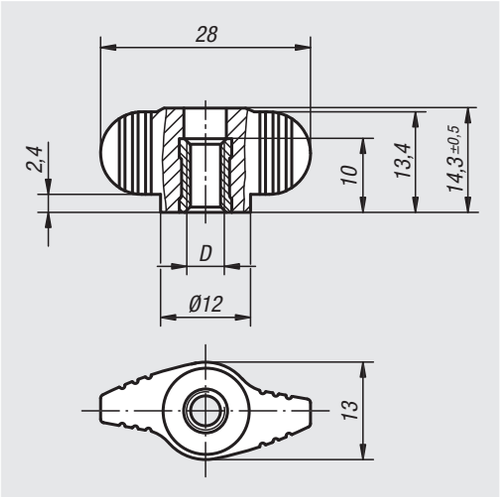
Order No. steel	Order No. stainless steel	Form	A	B	D	H	L
06652-004X	**06652-0004X**	L	28	13	M4	15	8
06652-005X	**06652-0005X**	L	28	13	M5	15	10/15/20
06652-006X	**06652-0006X**	L	28	13	M6	15	10/15/20/25/30
06652-008X	**06652-0008X**	L	28	13	M8	15	20/25/30/40

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Wing grips “Miniwing”

with tapped through bush





Material:
Grip thermoplastic.
Bush steel 5.8 or stainless steel 1.4305.

Version:
Steel trivalent blue passivated.
Stainless steel, bright.

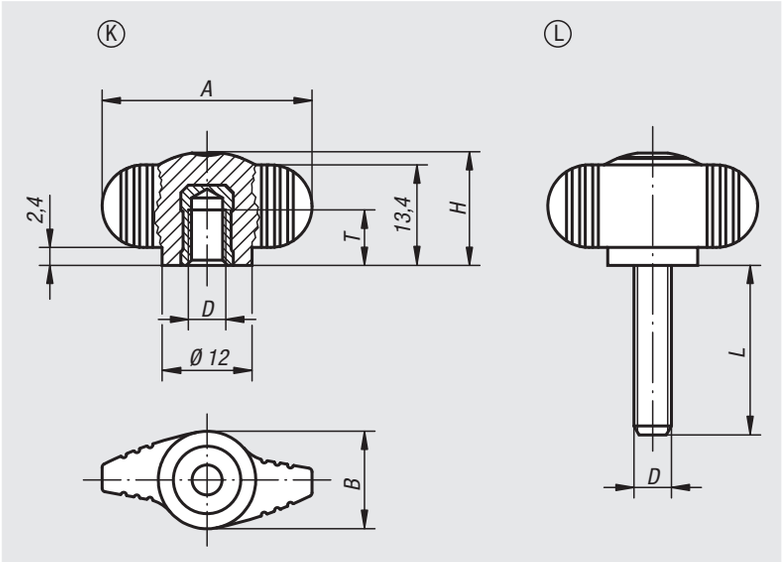
Sample order:
nlm 06652-1004

Order No.	Component material	D
06652-1004	steel	M4
06652-1005	steel	M5
06652-1006	steel	M6
06652-10004	stainless steel	M4
06652-10005	stainless steel	M5
06652-10006	stainless steel	M6

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Wing grips “Miniwing” antistatic





Material:
Thermoplastic, graphite black.
Bushes steel or threaded pins steel 5.8.

Version:
Screw blue passivated.

Sample order:
nlm 06652-1100624X15

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Wing grips “Miniwing” antistatic with internal thread

Order No.	A	B	D	H	T
06652-1100624	28	13	M6	15	9

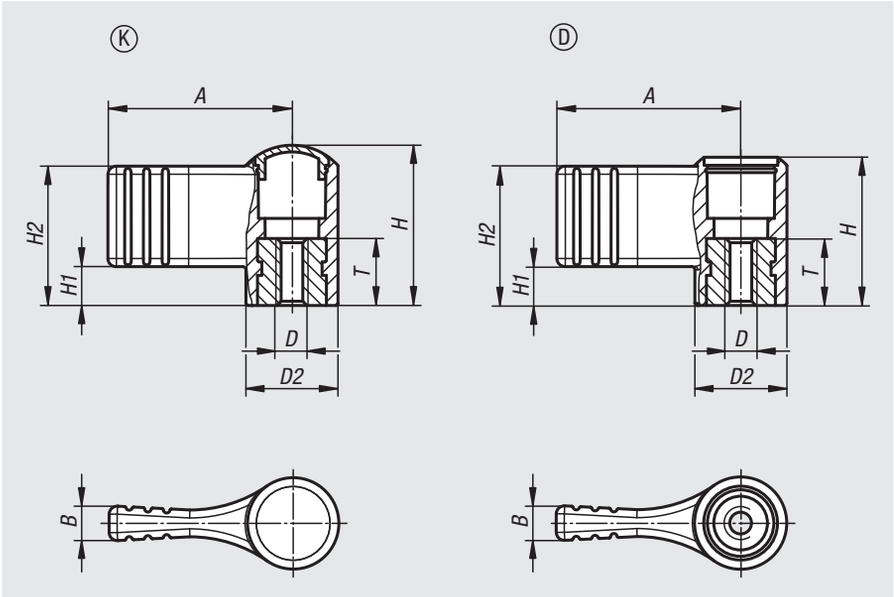
Wing grips “Miniwing” antistatic with external thread

Order No.	A	B	D	H	L
06652-1100624X15	28	13	M6	15	15

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Wing grips one-sided





Material:
Thermoplastic.
Bush steel 5.8 or stainless steel 1.4305.

Version:
Steel trivalent blue passivated, stainless steel bright.

Sample order:
nlm 06660-09046 (Bush M4 stainless steel, cap traffic red.)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	colza yellow Δ = 7
			
RAL 7021	RAL 7035	RAL 3020	RAL 1021

Wing grips, one-sided with cap

Order No. steel	Order No. stainless steel	Form	D	D2	A	B	H	H1	H2	T
06660-904Δ	**06660-0904Δ**	K	M4	12	22	4,4	18	4,5	15,5	10
06660-905Δ	**06660-0905Δ**	K	M5	12	22	4,4	18	4,5	15,5	10
06660-906Δ	**06660-0906Δ**	K	M6	12	22	4,4	18	4,5	15,5	10
06660-105Δ	**06660-0105Δ**	K	M5	14	27,5	5,1	24	5,8	20,8	10
06660-106Δ	**06660-0106Δ**	K	M6	14	27,5	5,1	24	5,8	20,8	10
06660-208Δ	**06660-0208Δ**	K	M8	21	37,5	6,3	36	8,5	30,5	14
06660-210Δ	**06660-0210Δ**	K	M10	21	37,5	6,3	36	8,5	30,5	14

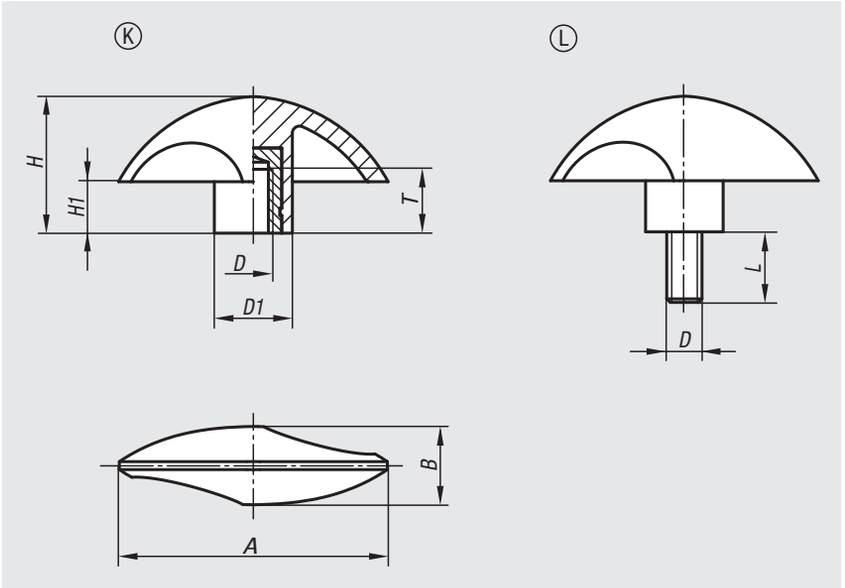
Wing grips, one-sided without cap

Order No. steel	Order No. stainless steel	Form	A	B	D	D2	H	H1	H2	T
06660-1904	**06660-10904**	D	22	4,4	M4	12	16,1	4,5	15,5	10
06660-1905	**06660-10905**	D	22	4,4	M5	12	16,1	4,5	15,5	10
06660-1906	**06660-10906**	D	22	4,4	M6	12	16,1	4,5	15,5	10
06660-1105	**06660-10105**	D	27,5	5,1	M5	14	22,1	5,8	20,8	10
06660-1106	**06660-10106**	D	27,5	5,1	M6	14	22,1	5,8	20,8	10
06660-1208	**06660-10208**	D	37,5	6,3	M8	21	33,3	8,5	30,5	14
06660-1210	**06660-10210**	D	37,5	6,3	M10	21	33,3	8,5	30,5	14

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Wing grips





Material:
Grip polyamide, glass bead reinforced.
Bush brass or steel.
Screw steel.

Version:
Steel electro zinc-plated.

Sample order:
nlm 06665-15006

Note:
Temperature resistance from -50 °C to 130 °C.
Resistant to common chemicals and oils.

Wing grips with internal thread

Order No.	Form	A	B	D	D1	H	H1	T
06665-15006	K	51	15	M6	15	25,5	9,5	14
06665-16008	K	61,5	18	M8	18	31	11,5	14
06665-17510	K	76	22	M10	22	38,5	14,5	14

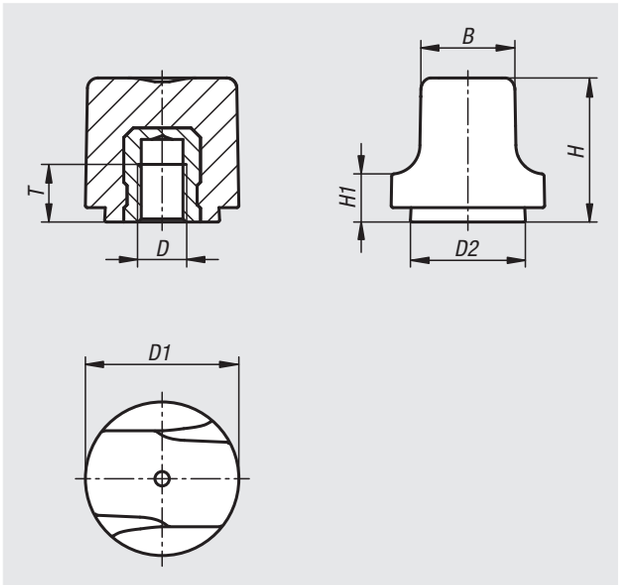
Wing grips with external thread

Order No.	Form	A	B	D	D1	H	H1	L
06665-25006X15	L	51	15	M6	15	25,5	9,5	15
06665-26008X20	L	61,5	18	M8	18	31	11,5	20
06665-27510X20	L	76	22	M10	22	38,5	14,5	20

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Grip nuts





Material:
Thermoplastic black.
Bush steel, stainless steel or brass.

Version:
Bush blue passivated steel, stainless steel and brass bright.

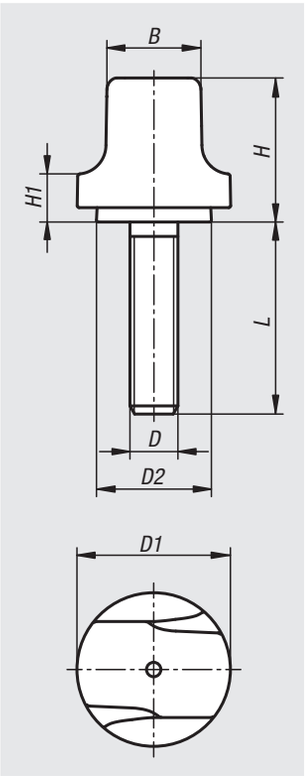
Sample order:
nlm 06666-103

Order No.	Component material	B	D	D1	D2	H	H1	T
06666-103	brass	10	M3	16	12	15	5	4,5
06666-104	brass	10	M4	16	12	15	5	6
06666-204	brass	12,3	M4	20	15	18,5	6	6
06666-205	brass	12,3	M5	20	15	18,5	6	6
06666-305	steel	15,3	M5	25	18,7	22,9	7,3	8,5
06666-306	steel	15,3	M6	25	18,7	22,9	7,3	9
06666-1003	stainless steel	10	M3	16	12	15	5	4,5
06666-1004	stainless steel	10	M4	16	12	15	5	6
06666-2004	stainless steel	12,3	M4	20	15	18,5	6	6
06666-2005	stainless steel	12,3	M5	20	15	18,5	6	6
06666-3005	stainless steel	15,3	M5	25	18,7	22,9	7,3	8,5
06666-3006	stainless steel	15,3	M6	25	18,7	22,9	7,3	9

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Grip screws





Material:
Thermoplastic black. Screw steel or stainless steel.

Version:
Screw blue passivated steel or bright stainless steel.

Sample order:
nlm 06666-103X8 (include length L)

Order No. steel	Order No. stainless steel	B	D	D1	D2	H	H1	L
06666-103X	**06666-1003X**	10	M3	16	12	15	5	8/10/12/15
06666-104X	**06666-1004X**	10	M4	16	12	15	5	10/15/20
06666-105X	**06666-1005X**	10	M5	16	12	15	5	10/15/20
06666-204X	**06666-2004X**	12,3	M4	20	15	18,5	6	10/15/20
06666-205X	**06666-2005X**	12,3	M5	20	15	18,5	6	10/15/20/25
06666-206X	**06666-2006X**	12,3	M6	20	15	18,5	6	10/15/20/25
06666-305X	**06666-3005X**	15,3	M5	25	18,7	22,9	7,3	10/15/20/25
06666-306X	**06666-3006X**	15,3	M6	25	18,7	22,9	7,3	10/15/20/25
06666-308X	**06666-3008X**	15,3	M8	25	18,7	22,9	7,3	15/20/25/30

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Triangular grips

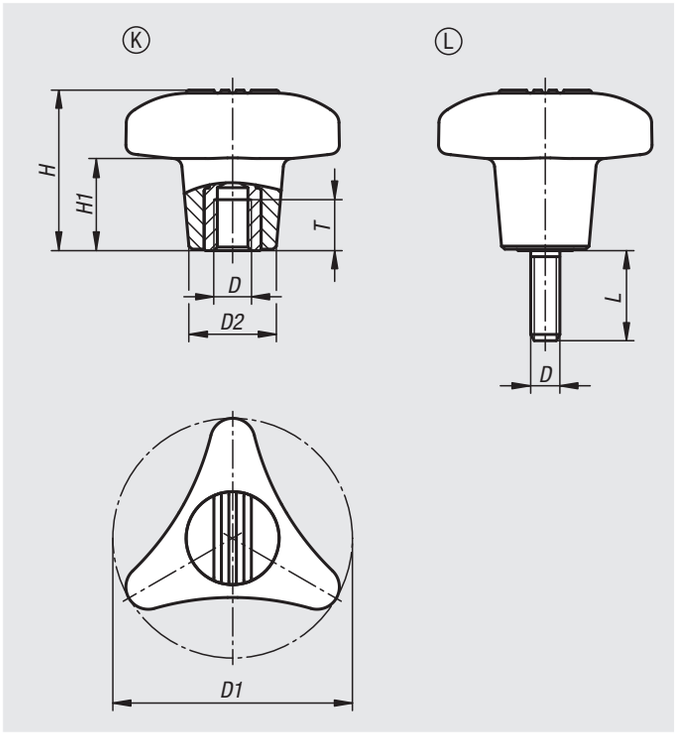


Material:
Grip glass-bead reinforced thermoplastic.
Cap thermoplastic.
Steel parts grade 5.8.

Version:
Grip and cap black grey (RAL 7021).
Steel parts blue-passivated.

Sample order:
nlm 06699-18010X15 (include length L)

On request:
Other screw lengths and colours.
Metal parts stainless steel.



Triangular grips with internal thread

Order No.	Form	D	D1	D2	H	H1	T
06699-18008	K	M8	80	29,2	53,5	31	17
06699-18010	K	M10	80	29,2	53,5	31	17
06699-18012	K	M12	80	29,2	53,5	31	17

Triangular grips with external thread

Order No.	Form	D	D1	D2	H	H1	L
06699-18008X	L	M8	80	29,2	53,5	31	15/20/30/40/50
06699-18010X	L	M10	80	29,2	53,5	31	15/20/30/40/50
06699-18012X	L	M12	80	29,2	53,5	31	15/20/30/40/50

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Triangular grips

with high collar

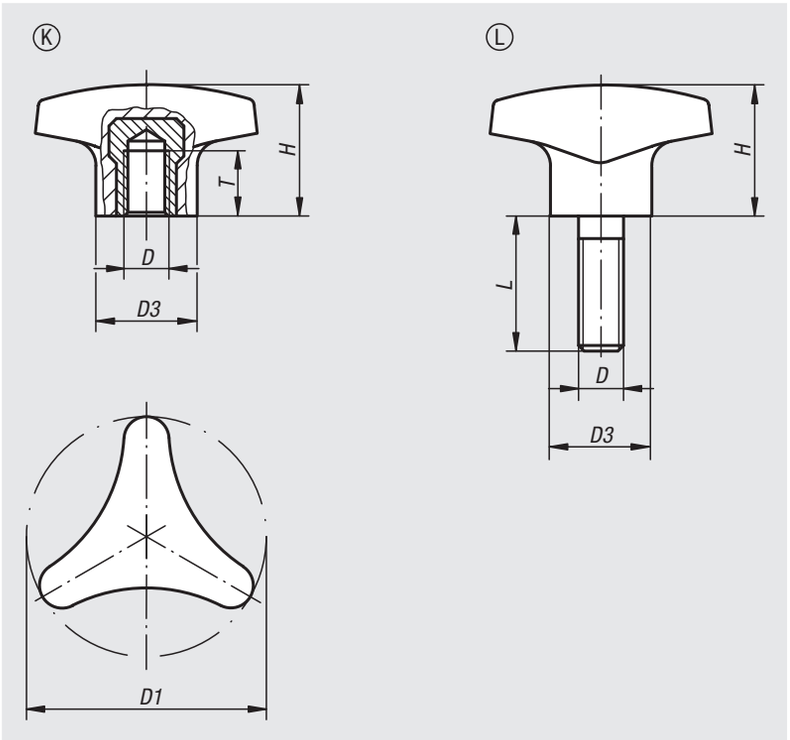


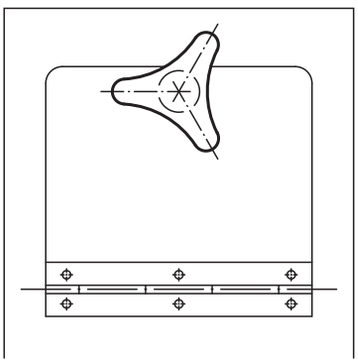
Material:
Black thermoset PF 31.
Bush and screw electro zinc-plated steel or bright stainless steel.

Version:
High-gloss polished.

Sample order:
nlm 06702-14008X20

On request:
Other screw sizes, screw lengths and colours.





Triangular grips with high collar, internal thread

Order No.	Form	Component material	D	D1	D3	H	T
06702-14006	K	steel	M6	40	14	22	12
06702-15008	K	steel	M8	50	18	28	14
06702-16210	K	steel	M10	62	22	35	14
06702-24006	K	stainless steel	M6	40	12	22	9
06702-25008	K	stainless steel	M8	50	15	28	13
06702-26210	K	stainless steel	M10	62	18	35	13

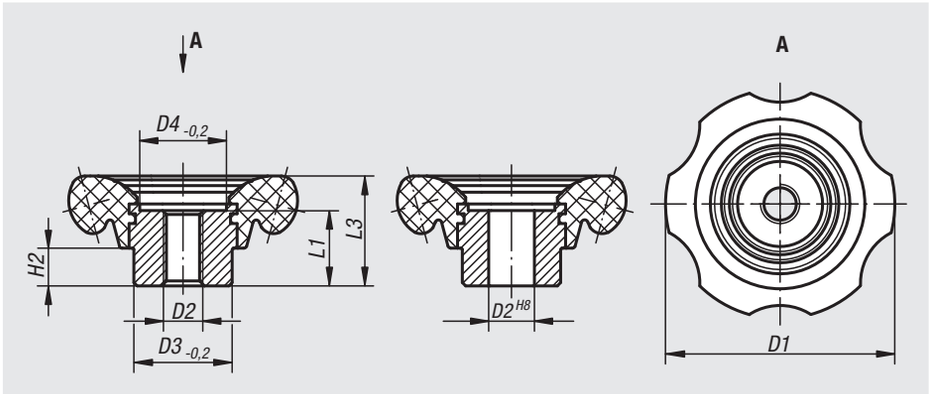
Triangular grips with high collar, external thread

Order No.	Form	Component material	D	D1	D3	H	L
06702-14006X15	L	steel	M6	40	14	22	15
06702-14008X20	L	steel	M8	40	14	22	20
06702-15008X20	L	steel	M8	50	18	28	20
06702-15010X25	L	steel	M10	50	22	28	25
06702-16210X25	L	steel	M10	62	22	35	25
06702-24006X20	L	stainless steel	M6	40	12	22	20
06702-24008X20	L	stainless steel	M8	40	12	22	20
06702-25008X20	L	stainless steel	M8	50	15	28	20
06702-25010X30	L	stainless steel	M10	50	15	28	30
06702-26210X30	L	stainless steel	M10	62	18	35	30

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Handwheels



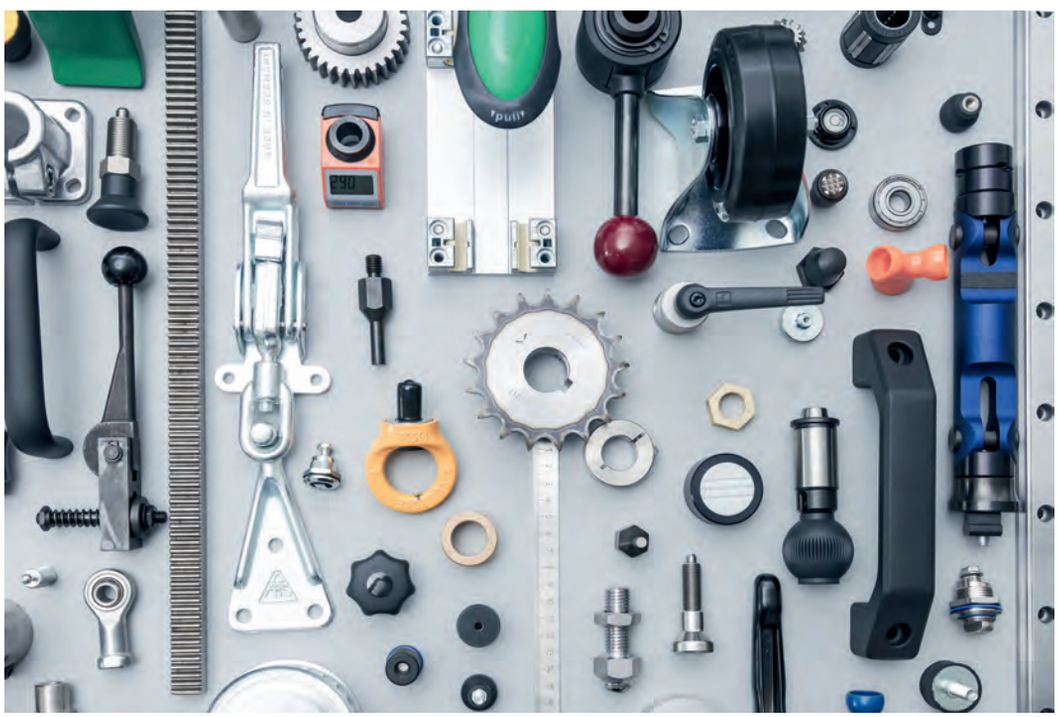


Material:
Handwheel thermoset PF 31.
Bush steel, black oxidised.

Version:
High-gloss polished, black.

Sample order:
nlm 06830-70112

Order No.	Version 1	D1	D2	D3	D4	H2	L1	L3
06830-70110	internal thread	70	M10	30	26,5	11,5	23	33,5
06830-70112	internal thread	70	M12	30	26,5	11,5	23	33,5
06830-83112	internal thread	83	M12	35	31,5	14	28	40
06830-83116	internal thread	83	M16	35	31,5	14	28	40
06830-70212	reamed hole	70	12H8	30	26,5	11,5	23	33,5
06830-70214	reamed hole	70	14H8	30	26,5	11,5	23	33,5
06830-83214	reamed hole	83	14H8	35	31,5	14	28	40
06830-83216	reamed hole	83	16H8	35	31,5	14	28	40



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Five lobe grips



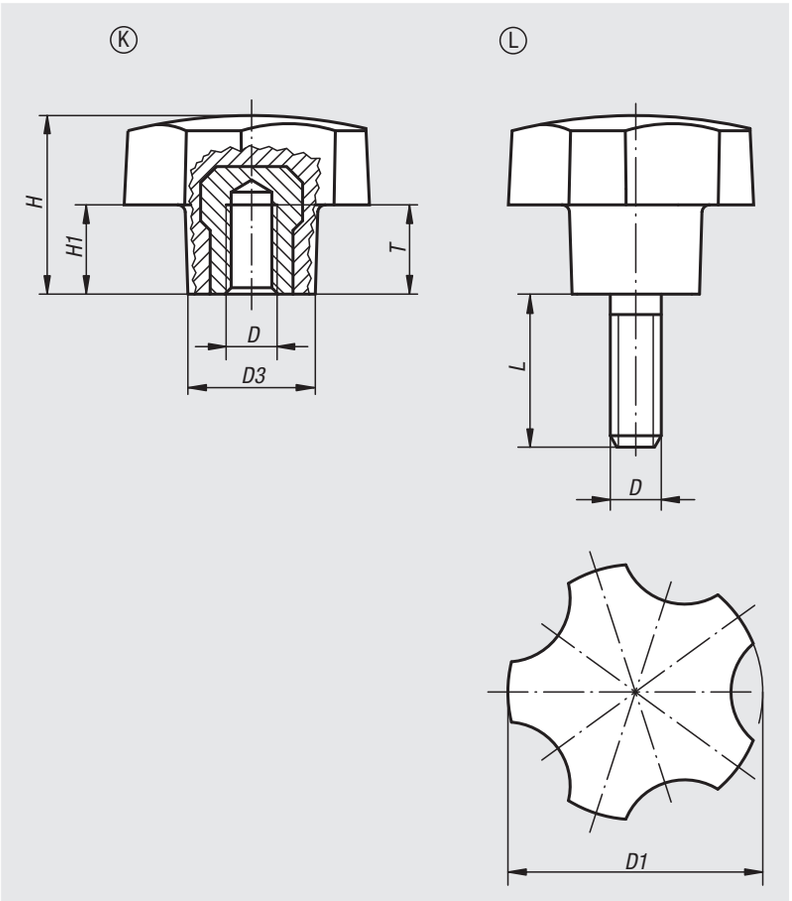
Material:
Thermoset PF 31, black.
Steel bush and stud, electro zinc-plated.

Version:
High-gloss polished.

Sample order:
nlm 06850-3206X12 (include length L)

Note:
The versions 06850-3205 and 06850-3206 have a brass bush.

On request:
Other screw sizes, screw lengths and colours.



Five lobe grips with internal thread

Order No.	Form	D	D1	D3	H	H1	T
06850-3205	K	M5	32	16	22,4	11,2	10
06850-3206	K	M6	32	16	22,4	11,2	9
06850-4006	K	M6	40	20	28	14	12
06850-4008	K	M8	40	20	28	14	14
06850-4010	K	M10	40	20	28	14	14
06850-5008	K	M8	50	25	35	17,5	14
06850-5010	K	M10	50	25	35	17,5	14

Five lobe grips with external thread

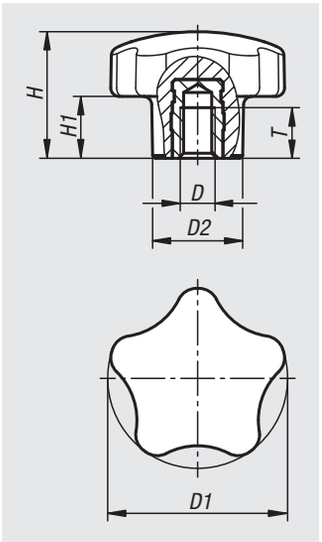
Order No.	Form	D	D1	D3	H	H1	L
06850-3206X	L	M6	32	16	22,4	11,2	12/18
06850-3208X	L	M8	32	16	22,4	11,2	16/24
06850-4006X	L	M6	40	20	28	14	18
06850-4008X	L	M8	40	20	28	14	16/20/24
06850-4010X	L	M10	40	20	28	14	30
06850-5008X	L	M8	50	25	35	17,5	16/24
06850-5010X	L	M10	50	25	35	17,5	20/30

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Five lobe grips

with internal thread





Material:
Thermoset PF 31.
Steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06851-3205

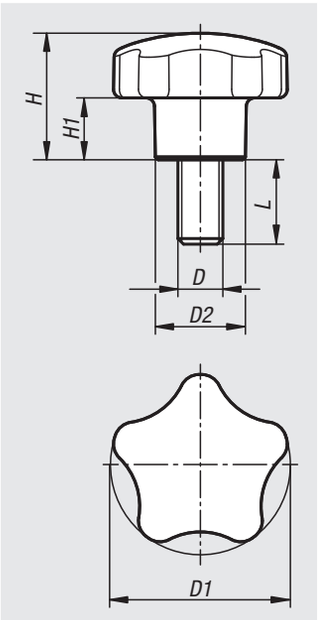
Order No. steel	Order No. stainless steel	D	D1	D2	H	H1	T
06851-3205	**06851-13205**	M5	32	16	22,5	11	7,5
06851-3206	**06851-13206**	M6	32	16	22,5	11	9
06851-4006	**06851-14006**	M6	40	20	28	14	9
06851-4008	**06851-14008**	M8	40	20	28	14	12
06851-4010	**06851-14010**	M10	40	20	28	14	15
06851-5008	**06851-15008**	M8	50	25	35	17,5	12
06851-5010	**06851-15010**	M10	50	25	35	17,5	15
06851-6012	**06851-16012**	M12	60	30	37	18,5	18

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Five lobe grips

with external thread





Material:
Thermoset PF 31.
Steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06851-01-3206X10 (include length L)

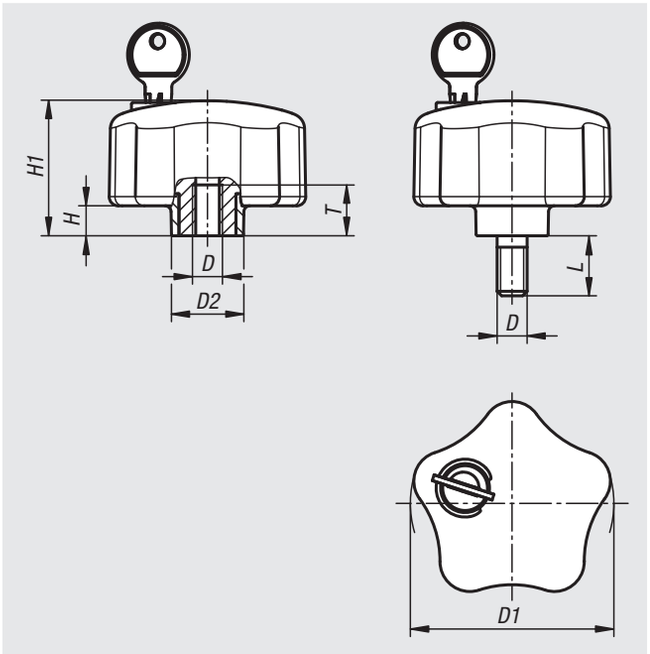
On request:
Other screw lengths.

Order No. steel	Order No. stainless steel	D	D1	D2	H	H1	L
06851-01-3206X	**06851-01-13206X**	M6	32	16	22,5	11	10/15/20/35
06851-01-3208X	**06851-01-13208X**	M8	32	16	22,5	11	15/25
06851-01-4006X	**06851-01-14006X**	M6	40	20	28	14	15
06851-01-4008X	**06851-01-14008X**	M8	40	20	28	14	15/20/25/30/35/45
06851-01-4010X	**06851-01-14010X**	M10	40	20	28	14	30
06851-01-5008X	**06851-01-15008X**	M8	50	25	35	17,5	15/25
06851-01-5010X	**06851-01-15010X**	M10	50	25	35	17,5	20/30/40/50
06851-01-6012X	**06851-01-16012X**	M12	60	30	37	18,5	30/40/50

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Five lobe grips plastic lockable





Material:
Grip thermoplastic.
Bush and threaded pin steel grade 5.8 or stainless steel 1.4305.

Version:
Grip black grey RAL 7021 or red similar to RAL 3020.
Steel parts trivalent blue passivated.
Stainless steel bright.

Sample order:
nlm 06852-6810X20

Note:
Lockable five lobe grips prevent unauthorised loosening of the screw connection.
The cylinder lock forms a positive lock between grip and screw.
When unlocked the grip rotates freely without driving the screw, preventing unauthorised opening of the screw connection.

The lockable five lobe grips are supplied with 2 keys each.
The key can be removed in the open and closed position.
The locks are a single-key system, i.e. the same key works in all locks.

On request:
Other versions.



Five lobe grips, plastic, lockable, with female thread

Order No. steel	Order No. stainless steel	Main colour	D	D1	D2	H	H1	T
06852-6806	06852-06806	black grey	M6	68	24	10	45,5	17
06852-6808	06852-06808	black grey	M8	68	24	10	45,5	17
06852-6810	06852-06810	black grey	M10	68	24	10	45,5	17
06852-846806	06852-0846806	red	M6	68	24	10	45,5	17
06852-846808	06852-0846808	red	M8	68	24	10	45,5	17
06852-846810	06852-0846810	red	M10	68	24	10	45,5	17

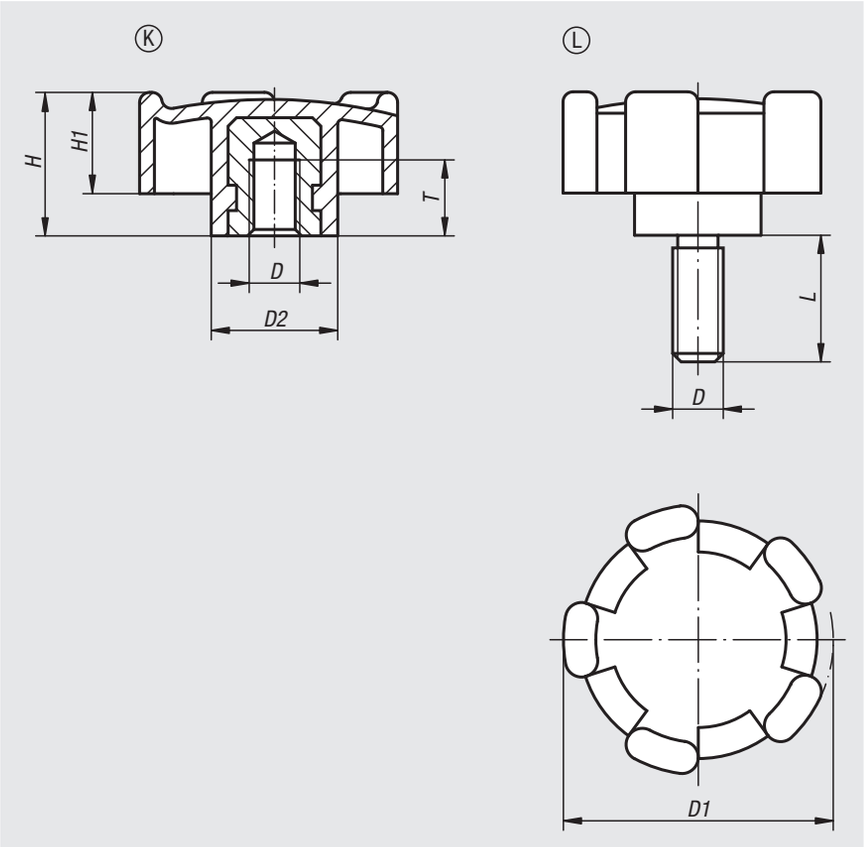
Five lobe grips, plastic, lockable, with male thread

Order No. steel	Order No. stainless steel	Main colour	D	D1	D2	H	H1	L
06852-6808X20	06852-06808X20	black grey	M8	68	24	10	45,5	20
06852-6810X20	06852-06810X20	black grey	M10	68	24	10	45,5	20
06852-846808X20	06852-0846808X20	red	M8	68	24	10	45,5	20
06852-846810X20	06852-0846810X20	red	M10	68	24	10	45,5	20

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Five lobe grips





Material:
Grip black grey thermoplastic.
Bush steel or brass.
Screw 5.8 steel.

Version:
Steel bush electro zinc-plated.
Screw trivalent blue passivated.

Sample order:
nlm 06853-3206

Note:
The version 06853-3206 has a brass bush.

Five lobe grips with internal thread

Order No.	Form	D	D1	D2	H	H1	T
06853-3206	K	M6	32	15	17	12	9
06853-4008	K	M8	40	18	20,5	14,5	11
06853-5010	K	M10	50	20	25	18	14

Five lobe grips with external thread

Order No.	Form	D	D1	D2	H	H1	L
06853-320615	L	M6	32	15	17	12	15
06853-400816	L	M8	40	18	20,5	14,5	16
06853-501020	L	M10	50	20	25	18	20

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Pull handles

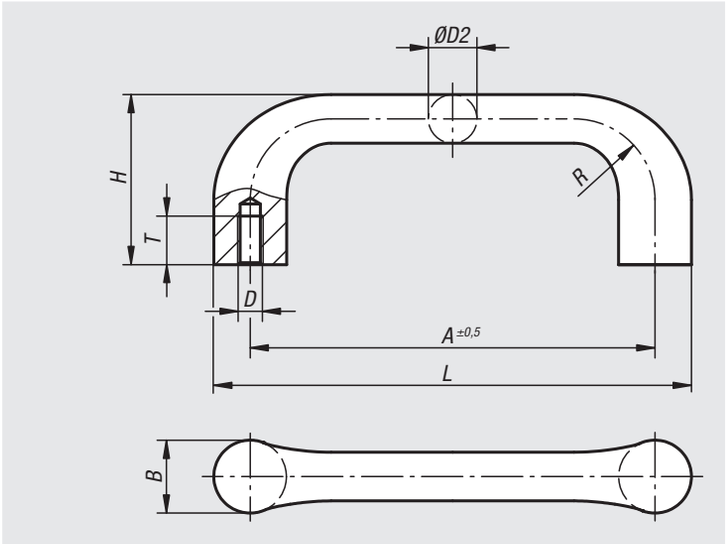


Material:
GJS 400

Version:
Vibratory ground or black powder-coated.
End faces machined.

Sample order:
nlm 06895-12510

Assembly:
From the rear.



Order No. bright	Order No. black	A	B	D	D2	H	L	R	T	Load capacity N
06895-10006	**06895-100061**	100	18	M6	12	42	118	20	12	1000
06895-11208	**06895-112081**	112	20	M8	14	47	132	22	15	1000
06895-12510	**06895-125101**	125	22	M10	16	53	147	24	18	1000
06895-14012	**06895-140121**	140	25	M12	18	59	165	26	20	1000

Pull handles

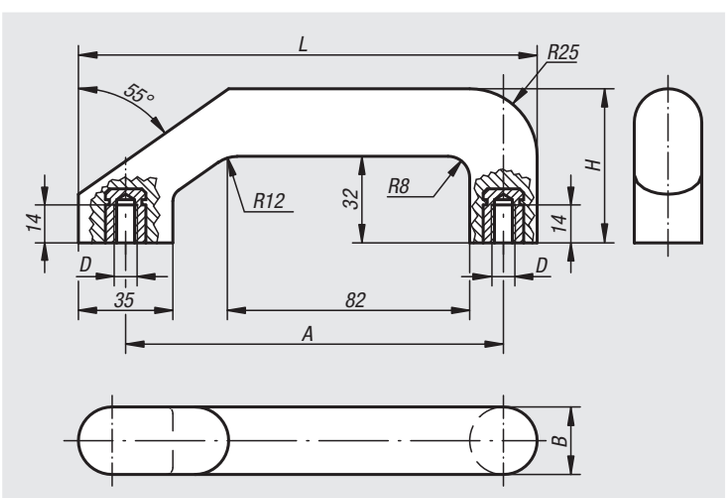


Material:
Thermoset PF 31, black.
Bushes brass or electro zinc-plated steel.

Version:
High-gloss polished.

Sample order:
nlm 06900-101

Assembly:
From the rear.



Order No.	Component material	A	B	D	H	L	Load capacity N
06900-101	brass	140	25	M8	57	170	300
06900-201	steel	140	25	M8	57	170	300

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Pull handles

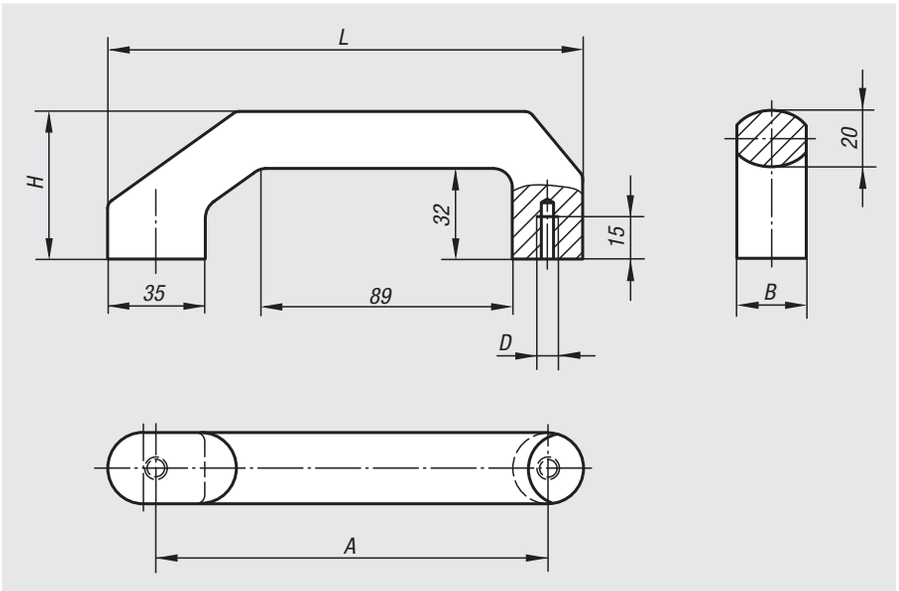


Material:
Die-cast aluminium EN AW-5754.

Version:
Surface tumbled and black powder-coated or left bright.

Sample order:
nlm 06900-140066

Assembly:
From the rear.



Order No.	Main colour	A	B	D	H	L	Load capacity N
06900-140066	black	140	25	M6	57	170	1000
06900-140067	bright	140	25	M6	57	170	1000

06901

Pull handles

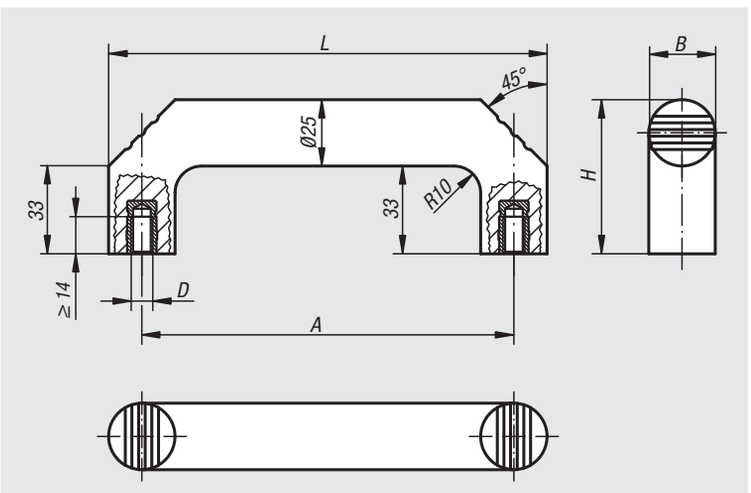


Material:
Thermoset PF 31, black.
Bushes brass or electro zinc-plated steel.

Version:
High-gloss polished.

Sample order:
nlm 06901-114008

Assembly:
From the rear.

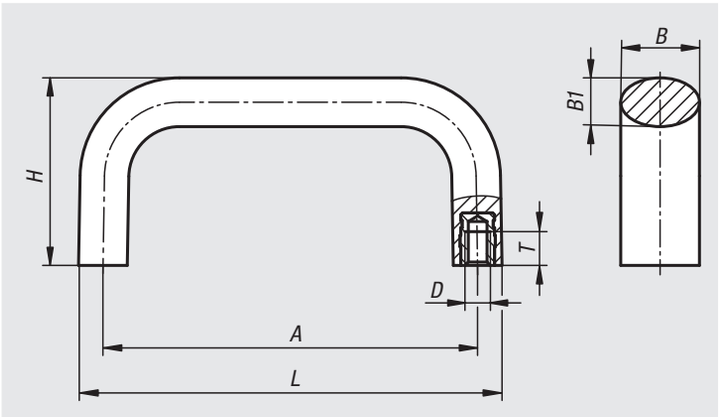


Order No.	Component material	A	B	D	H	L	Load capacity N
06901-114008	brass	140	25	M8	58	165	500
06901-214008	steel	140	25	M8	58	165	500

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Pull handles, plastic oval





Material:
Thermoset PF 31.
Tapped bush, steel or stainless steel.

Version:
Thermoset black, high-gloss polished.
Trivalent blue passivated steel or bright stainless steel.

Sample order:
nlm 06901-01-21280621

Temperature range:
Permanent application temperature 140 °C.
Temporary operating temperature max. 160 °C.

Assembly:
From the rear.

Order No.	Component material	A	B	B1	D	H	L	T	Load capacity N
06901-01-21000621	steel	100	21	13	M6	50	113	9	500
06901-01-21200621	steel	120	21	13	M6	50	133	9	500
06901-01-21280621	steel	128	21	13	M6	50	141	9	500
06901-01-21600825	steel	160	25	17	M8	55	177	12	500
06901-01-31000621	stainless steel	100	21	13	M6	50	113	9	500
06901-01-31200621	stainless steel	120	21	13	M6	50	133	9	500
06901-01-31280621	stainless steel	128	21	13	M6	50	141	9	500
06901-01-31600825	stainless steel	160	25	17	M8	55	177	12	500

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Pull handles



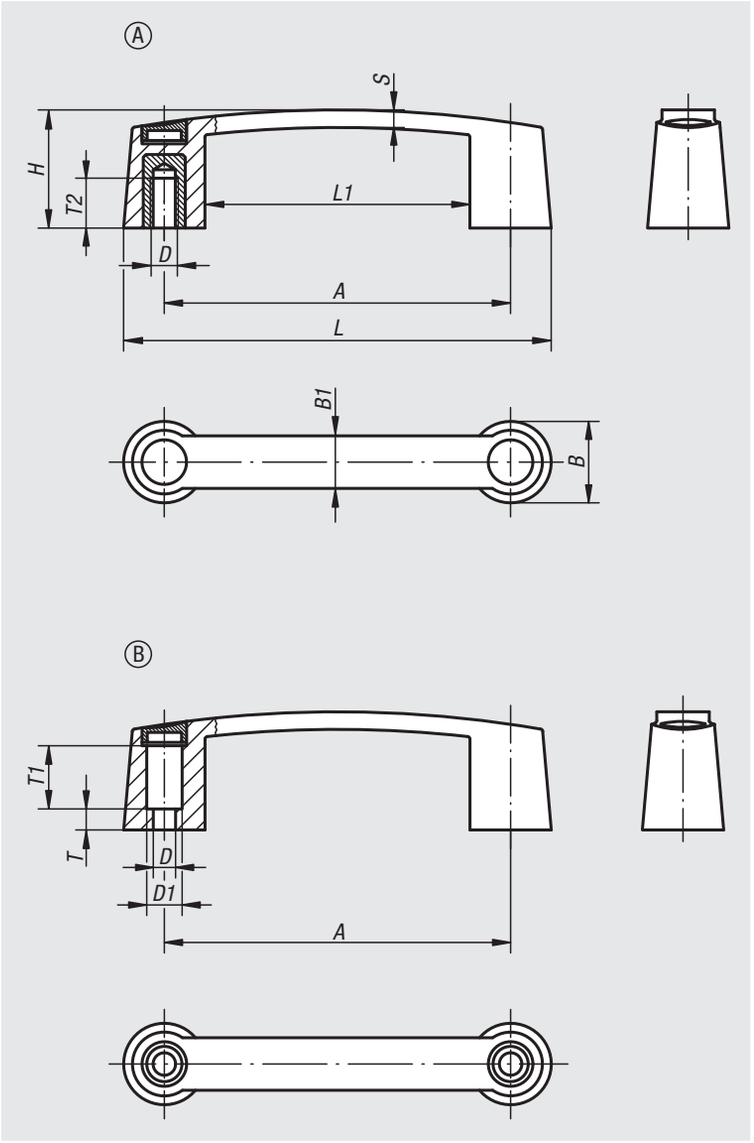
Material:
Thermoplastic.
Bushing brass.

Version:
Handle and cap black.

Sample order:
nlm 06902-109406

Assembly:
Form A from the rear.
Form B from the front.

On request:
Other handle or cap colours.

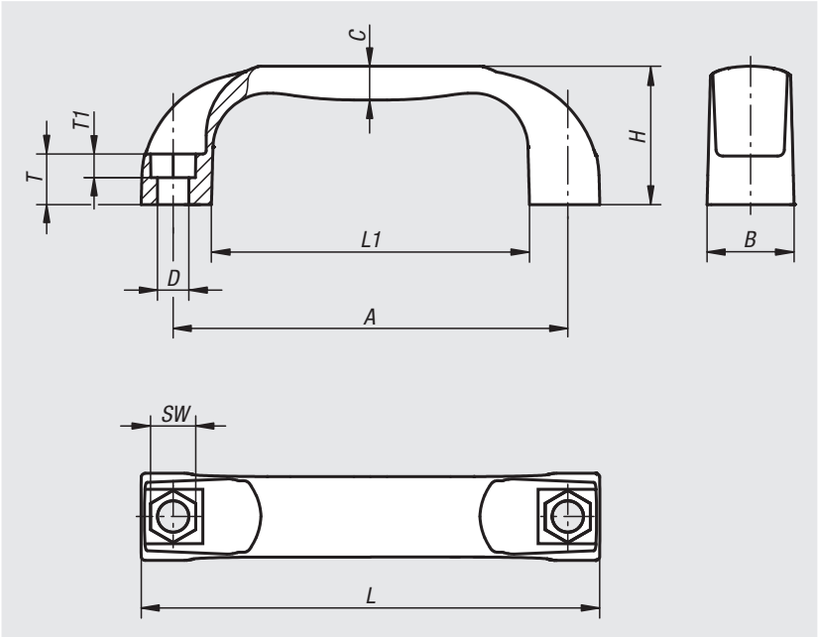


Order No.	Form	A	B	B1	D	D1	H	L	L1	S	T	T1	T2	Load capacity N
06902-109406	A	93,5	26	17	M6	-	35	119,5	67,5	5,8	-	-	15,5	320
06902-111706	A	117	29	19	M6	-	40	145	89	6,4	-	-	15,5	320
06902-111708	A	117	29	19	M8	-	40	145	89	6,4	-	-	16	870
06902-113206	A	132	31	20	M6	-	45	163	101	6,7	-	-	15,5	320
06902-113208	A	132	31	20	M8	-	45	163	101	6,7	-	-	16	870
06902-117910	A	179	35	22	M10	-	50	213	145	7,1	-	-	22	1200
06902-209406	B	93,5	26	17	6,8	12	35	119,5	67,5	5,8	4,5	19	-	500
06902-211708	B	117	29	19	8,5	13,5	40	145	89	6,4	8	23	-	950
06902-213208	B	132	31	20	8,5	13,5	45	163	101	6,7	8	22	-	950
06902-217908	B	179	35	22	8,5	13,5	50	213	145	7,1	12	22	-	950

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Pull handles





Material:
Glass-bead reinforced thermoplastic PA (polyamide) or fiberglass reinforced PP (polypropylene).

Version:
Black grey

Sample order:
nlm 06903-113208

Note:
The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut.

Assembly:
From the front or rear.

On request:
Other colours.

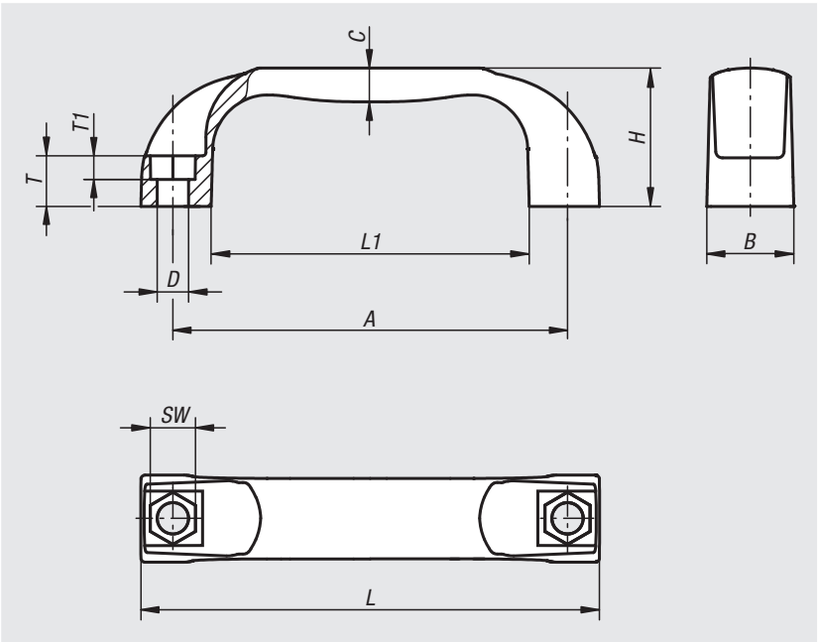
Order No.	Main material	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
06903-109406	polyamide	94	21	8	6,6	36	109	76	10	13	6	1000
06903-111708	polyamide	117	26	10	9	41	136	94	13	15	8	1500
06903-113208	polyamide	132	27	11	9	44	154	112	13	16	8	1500
06903-115008	polyamide	150	27	11	9	44	172	132	13	16	8	1500
06903-117908	polyamide	179	28	11	9	50	197	156	13	17	8	1500
06903-209406	polypropylene	94	21	8	6,6	36	109	76	10	13	6	500
06903-211708	polypropylene	117	26	10	9	41	136	94	13	15	8	800
06903-213208	polypropylene	132	27	11	9	44	154	112	13	16	8	800
06903-215008	polypropylene	150	27	11	9	44	172	132	13	16	8	800
06903-217908	polypropylene	179	28	11	9	50	197	156	13	17	8	800

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Pull handles

high temperature resistant





Material:
Thermoplastic PPA (resistant to high temperatures), fibreglass reinforced.

Version:
black.

Sample order:
nlm 06903-311708

Note:
The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut.

Temperature range:
Continuous operating temperature acc. to IEC 216 max. 150°C - 160°C.
Temporary operating temperature max. 250°C.

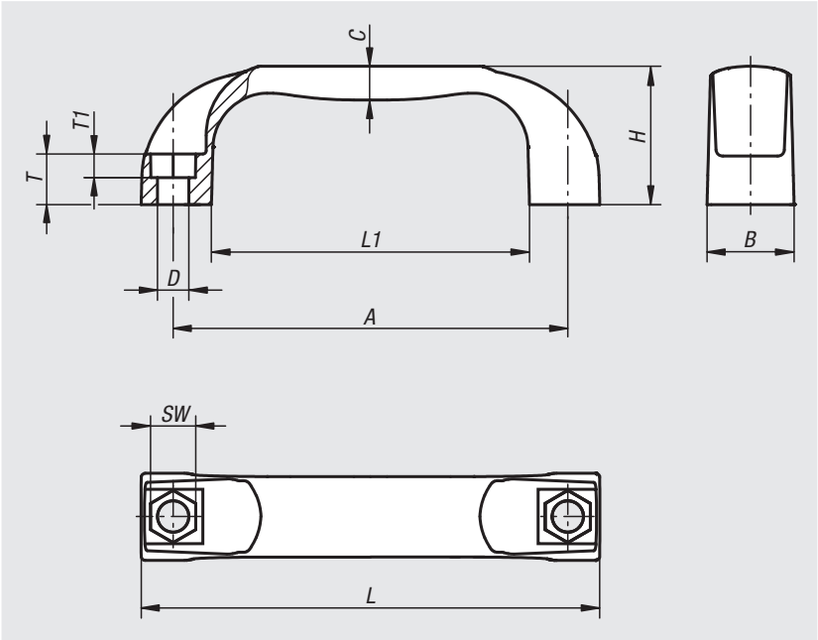
Assembly:
From the front or rear.

Order No.	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
06903-311708	117	26	10	9	41	136	94	13	15	8	1500
06903-313208	132	27	11	9	44	154	112	13	16	8	1500
06903-315008	150	27	11	9	44	172	132	13	16	8	1500

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Pull handles antistatic





Material:
Thermoplastic PA (polyamide) reinforced.

Version:
graphite black.

Sample order:
nlm 06903-111170824

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity. Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Order No.	Main colour	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
06903-111170824	graphite black RAL 9011	117	26	10	9	41	136	94	13	15	8	1500
06903-111500824	graphite black RAL 9011	150	27	11	9	44	172	132	13	16	8	1500

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Pull handles



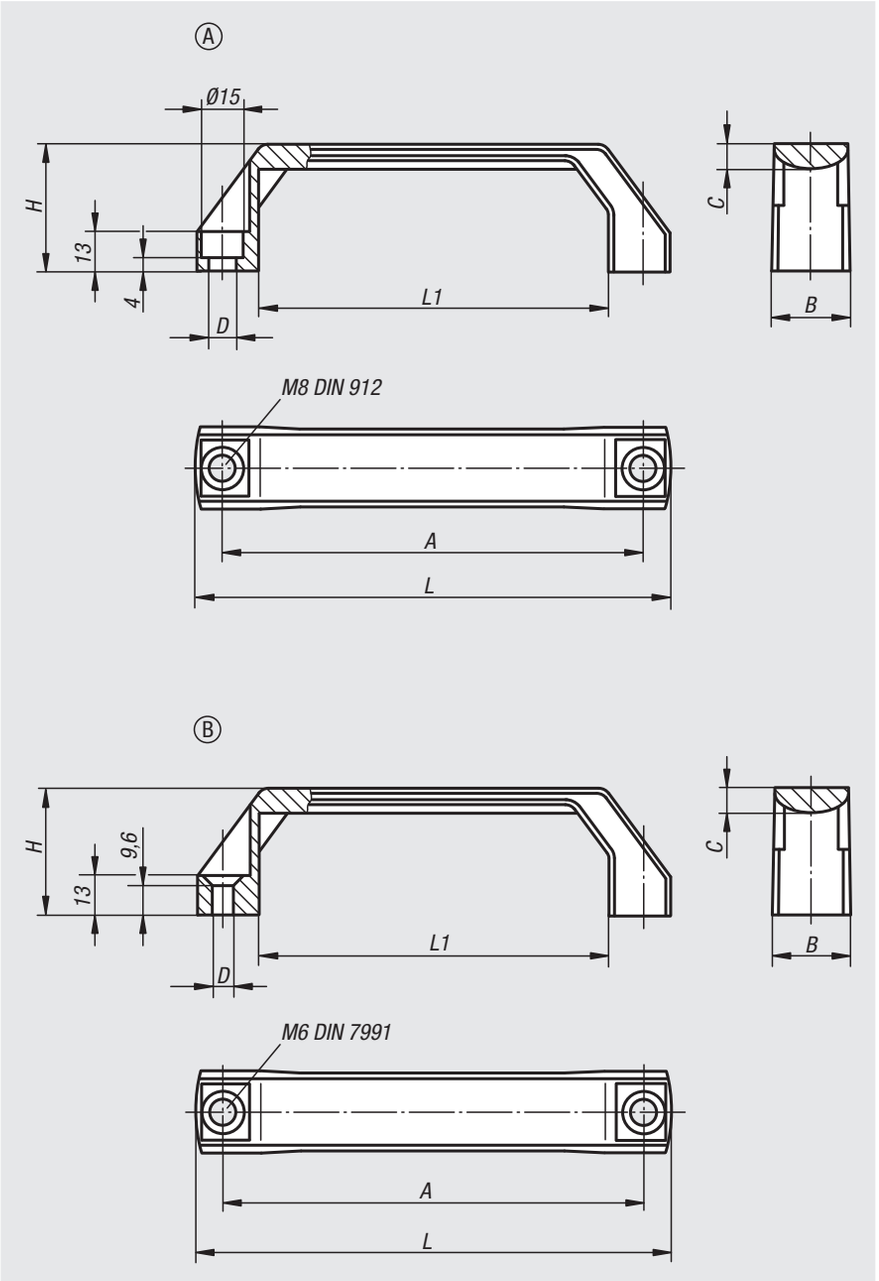
Material:
Glass bead reinforced thermoplastic.

Version:
Black RAL 7021 or orange.

Sample order:
nlm 06904-1120081

Note:
Dimension “A” applies after mounting. Before mounting it can be up to 2 mm smaller due to the release of the bending stress.

Assembly:
From the front.

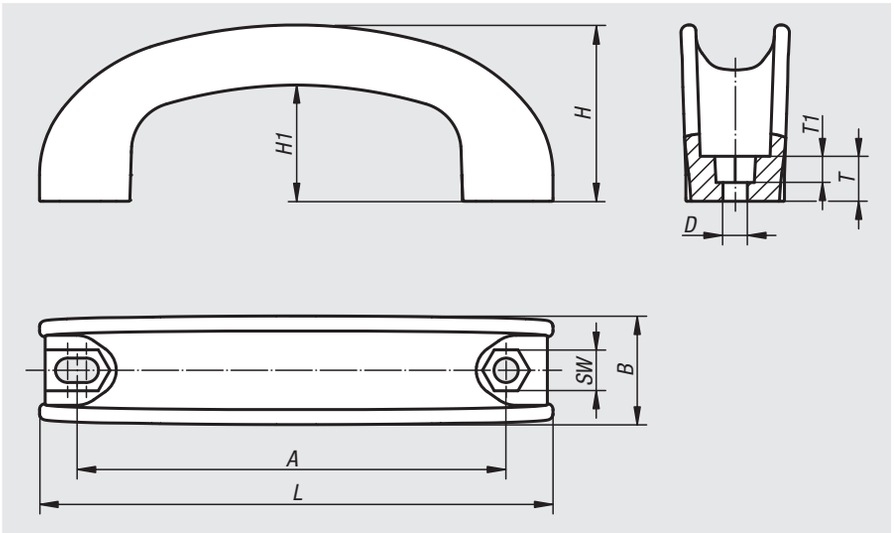


Order No. black grey RAL 7021	Order No. orange	Form	A	B	C	D	H	L	L1	Load capacity N
06904-1120081	06904-1120082	A	120	26	8	9	42	138	96	1000
06904-1140081	06904-1140082	A	140	26	8	9	42	158	116	1000
06904-1160081	06904-1160082	A	160	28	9	9	45	178	136	1000
06904-2120061	06904-2120062	B	120	26	8	6,6	42	138	96	1000
06904-2140061	06904-2140062	B	140	26	8	6,6	42	158	116	1000
06904-2160061	06904-2160062	B	160	28	9	6,6	45	178	136	1000

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Pull handles arch





Material:
Black thermoplastic.

Sample order:
nlm 06907-09006

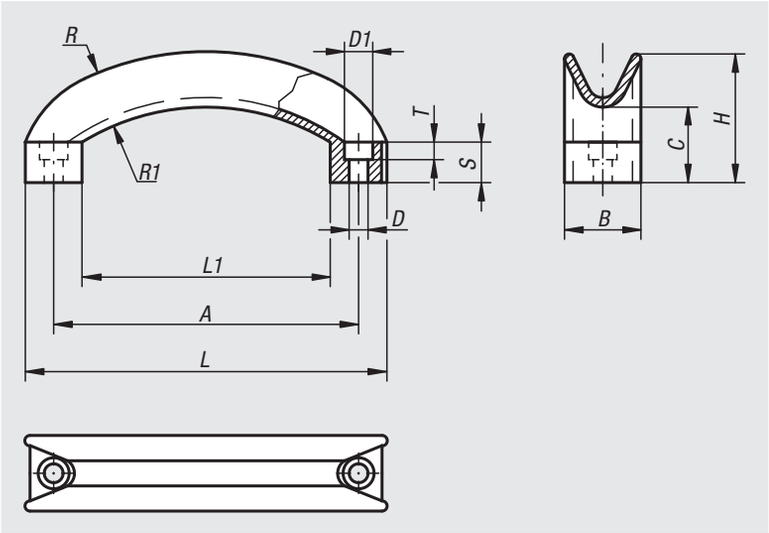
Assembly:
From the front.

Order No.	A	B	D	H	H1	L	T	T1	SW	Load capacity N
06907-09006	90-95	26,6	6,5	42	29	115	10	6,4	10,2	1000
06907-11206	112-117	29	6,5	47	31	137	12	7	10,2	1000
06907-17708	177-182	30	8,5	48,1	31	208	14	9	13,2	1000

Notes

Pull handles arch





Material:
Black grey thermoplastic.

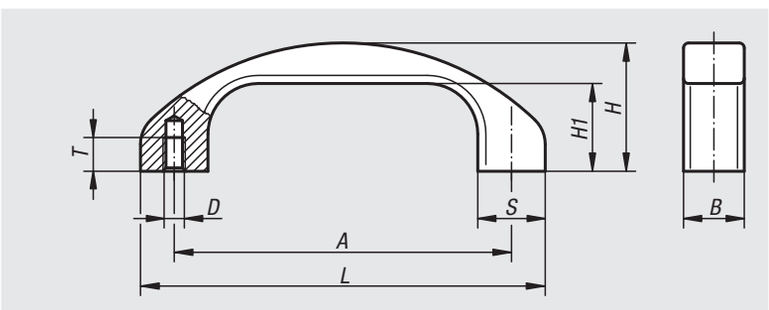
Sample order:
nlm 06909-11406

Assembly:
From the front.

Order No.	A	B	C	D	D1	H	L	L1	R	R1	S	T	Load capacity N
06909-11406	114	28	29	6,5	10,5	48	134	92	117	79	15	6,5	1000

Pull handles





Material:
Profile aluminium EN AW-6060

Version:
High quality anodised version, glass-bead blasted, semi-gloss finish.

Sample order:
nlm 06910-120061

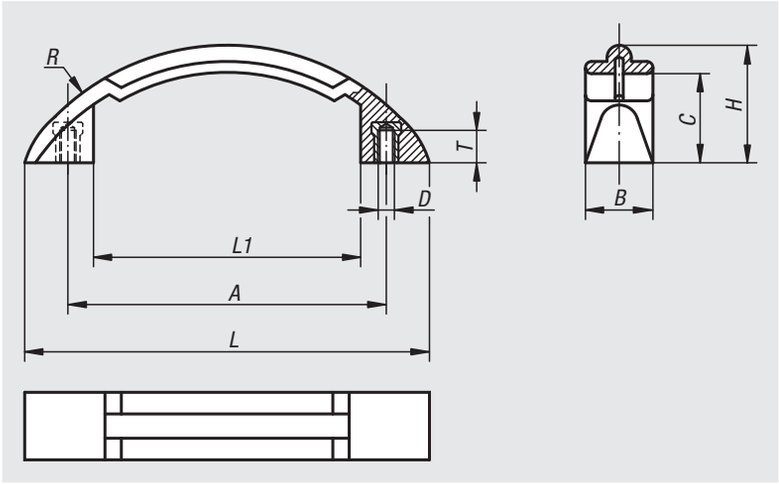
Assembly:
From the rear.

Order No.	Main colour	A	B	D	H	H1	L	S	T	Load capacity N
06910-120061	black anodised	120	22	M6	46	31	144	24	12	1000
06910-140081	black anodised	140	25	M8	53	36	168	28	15	1000
06910-120063	natural anodized	120	22	M6	46	31	144	24	12	1000
06910-140083	natural anodized	140	25	M8	53	36	168	28	15	1000

06911

Pull handles arch





Material:
Thermoplastic, black grey.
Bushes electro zinc-plated steel.

Sample order:
nlm 06911-11906

Assembly:
From the rear.

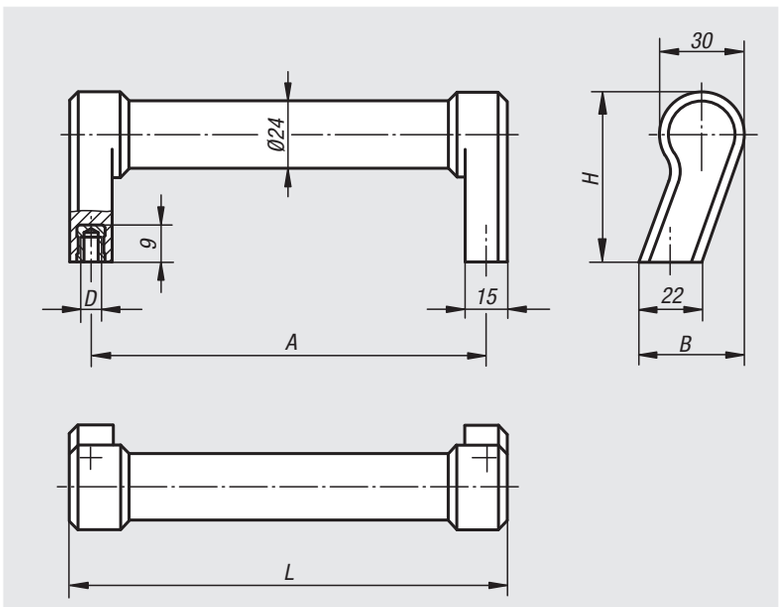
Order No.	A	B	C	D	H	L	L1	R	T	Load capacity N
06911-11906	119	25	33	M6	43,5	150	98	94	10	1000

06912

Pull handles

oblique





Material:
Grip glass-bead reinforced thermoplastic.
Bushing brass.

Version:
Matt black or light grey

Sample order:
nlm 06912-140061

Note:
Oblique, robust polyamide handle. Tube and legs form one unit. The oblique contact faces allow mounting under cramped conditions e.g. in corners.

Assembly:
From the rear.

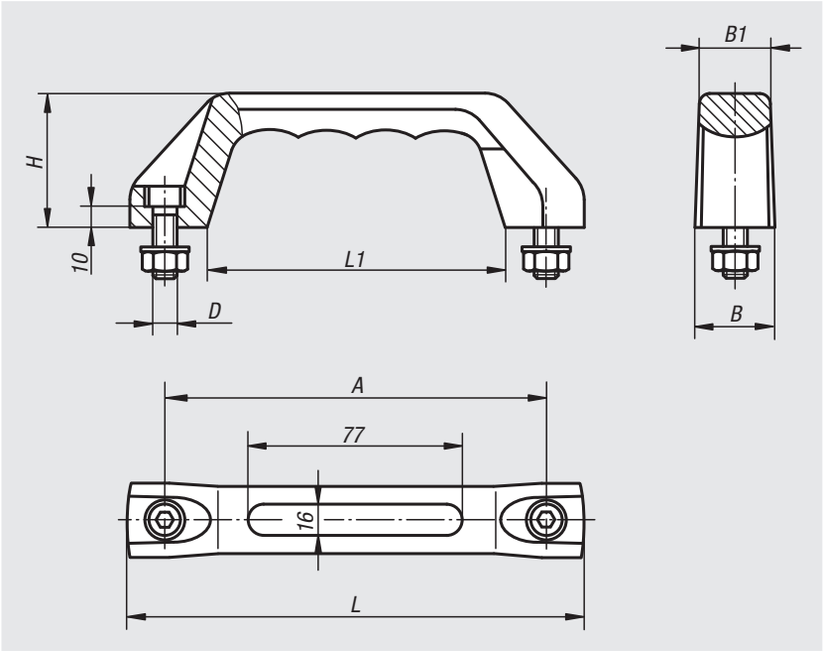
Order No.	Main colour	A	B	D	H	L	Load capacity N
06912-140061	black grey RAL 7021	140	37	M6	60	155	1000
06912-140062	light grey RAL 7035	140	37	M6	60	155	1000

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Pull handles

with soft inner face





Material:
Hard components glass-bead reinforced thermoplastic.
Soft components SEBS

Version:
Hard component matt black, soft component basalt grey.

Sample order:
nlm 06913-515008

Note:
Heavy-duty polyamide handle. Excellent carrying and gripping comfort thanks to its soft inner surface.
Black electro zinc-plated cap screws, nuts and washers are supplied.
For wet areas, the fastening material is supplied in stainless steel (1.4301).

Assembly:
From the front.

On request:
With individual caption, embossed or raised on the soft material. Hard and soft components are available in all RAL colours.

Order No.	Version 2	A	B	B1	D	L	L1	H	Load capacity N
06913-515008	standard	150	29	25,5	M8x25	178	118	53	500
06913-615008	wet area	150	29	25,5	M8x25	178	118	53	500

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Pull handles stainless steel

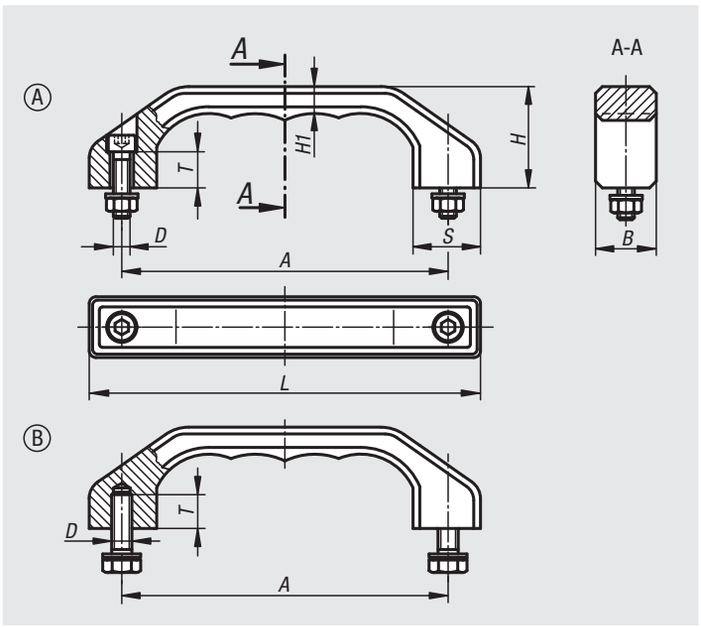


Material:
Investment cast 1.4308 stainless steel.
Fasteners 1.4301 stainless steel.

Version:
Abrasive cleaned and matt gloss electropolished.

Sample order:
nlm 06914-140081

Assembly:
Form A from the front.
Form B from the rear.



Order No.	Form	A	B	D	H	H1	L	S	T	Load capacity N
06914-140081	A	140	25	M8x30	45	12	170	28	15	1000
06914-180101	A	180	32	M10x40	58	15	218	36	18	1000
06914-140082	B	140	25	M8x18	45	12	170	28	15	1000
06914-180102	B	180	32	M10x20	58	15	218	36	18	1000

Pull handles

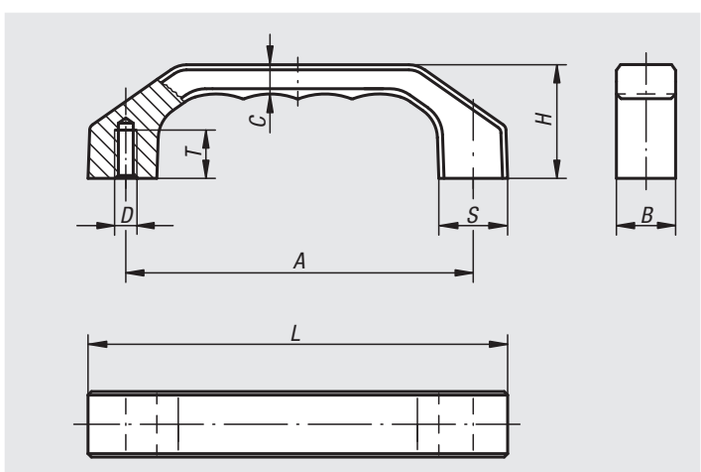


Material:
EN AW-6060

Version:
Matt-finished and anodised or powder-coated

Sample order:
nlm 06915-140082

Assembly:
From the rear.

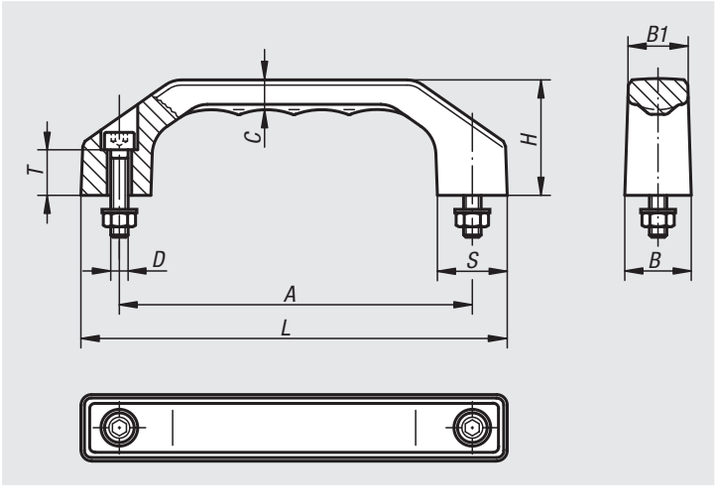


Order No. natural	Order No. black	Order No. titanium	A	B	C	D	H	L	S	T	Load capacity N
06915-120061	**06915-120062**	**06915-120063**	120	22	10,5	M6	39	146	24	15	1000
06915-140081	**06915-140082**	**06915-140083**	140	25	12	M8	45	170	28	16	1000
06915-160081	**06915-160082**	**06915-160083**	160	28	13,5	M8	52	194	32	16	1000

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Pull handles





Material:
Glass bead reinforced thermoplastic.

Version:
Matt black with fine texture.

Sample order:
nlm 06916-140082

Note:
These handles are extremely flex-resistant and very user friendly. Fastening screws, nuts and washers are supplied. Stainless steel fasteners are supplied for wet areas.

Assembly:
From the front.

Order No. -	Order No. wet area	A	B	B1	C	D	H	L	S	T	Load capacity N
06916-100051	**06916-100052**	100	19	17	8,5	M5X22	35	122	20	13	1000
06916-120061	**06916-120062**	120	23	20,5	10,5	M6X25	39	146	24	15	1000
06916-140081	**06916-140082**	140	27	24	12	M8X30	45	170	28	16	1000
06916-160081	**06916-160082**	160	31	27,5	13,5	M8X35	52	194	32	20	1000
06916-180081	**06916-180082**	180	35	31	15,5	M10X40	58	218	36	20	1000

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Pull handles



Material:
Thermoplastic PA (polyamide), glass-bead reinforced.
Bush, screw, washer and nut steel or stainless steel.

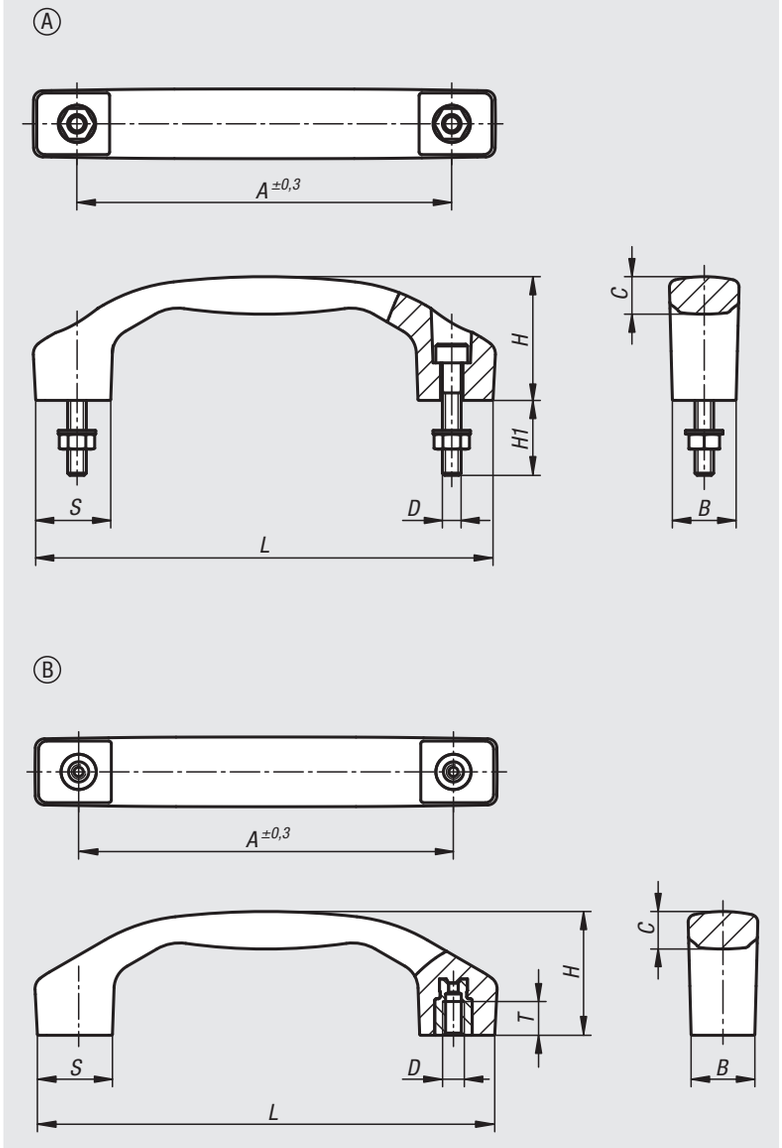
Version:
Black grey

Sample order:
nlm 06916-01-1100051

Note:
This pull handle is characterised by its large size and pleasant haptics.

Form A is supplied with fastening screws, washers and nuts.

Assembly:
Form A from the front.
Form B from the rear.



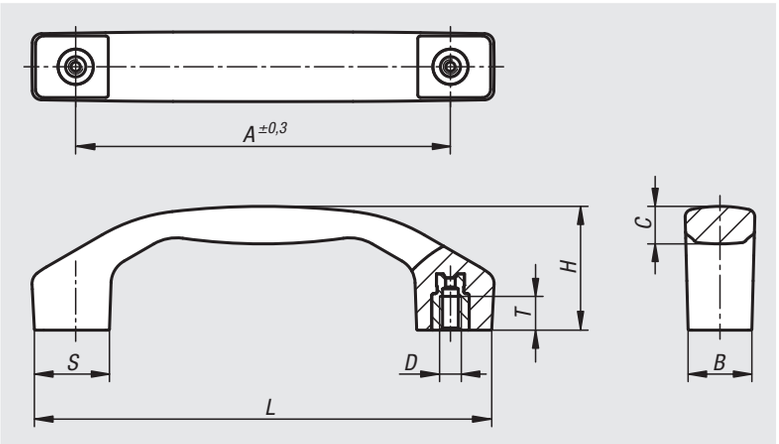
Order No.	Form	Component material	A	B	C	D	H	H1	L	S	T	Load capacity N
06916-01-1100051	A	steel	100	17	9,5	M5	33	20	122	20	-	1000
06916-01-1120061	A	steel	120	21	11,4	M6	39	25	146	24	-	1000
06916-01-1140081	A	steel	140	24	14,2	M8	45	30	170	28	-	1000
06916-01-1100052	A	stainless steel	100	17	9,5	M5	33	20	122	20	-	1000
06916-01-1120062	A	stainless steel	120	21	11,4	M6	39	25	146	24	-	1000
06916-01-1140082	A	stainless steel	140	24	14,2	M8	45	30	170	28	-	1000
06916-01-2100051	B	steel	100	17	9,5	M5	33	-	122	20	9	1000
06916-01-2120061	B	steel	120	21	11,4	M6	39	-	146	24	12	1000
06916-01-2140081	B	steel	140	24	14,2	M8	45	-	170	28	12	1000
06916-01-2100052	B	stainless steel	100	17	9,5	M5	33	-	122	20	9	1000
06916-01-2120062	B	stainless steel	120	21	11,4	M6	39	-	146	24	12	1000
06916-01-2140082	B	stainless steel	140	24	14,2	M8	45	-	170	28	12	1000

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Pull handles

high temperature resistant





Material:
Thermoplastic PPA (resistant to high temperatures), fibreglass reinforced.
Bush, stainless steel.

Version:
black.

Sample order:
nlm 06916-01-2100054

Note:
This pull handle is characterised by its large size and pleasant haptics.
Easy to clean due to its closed, smooth design (suitable for e.g. foodstuff production and medical technology).

Temperature range:
Continuous operating temperature acc. to IEC 216 max. 160 °C.
Short-term operating temperature: max. 250 °C.
Suitable for steam sterilisation (medical technology).

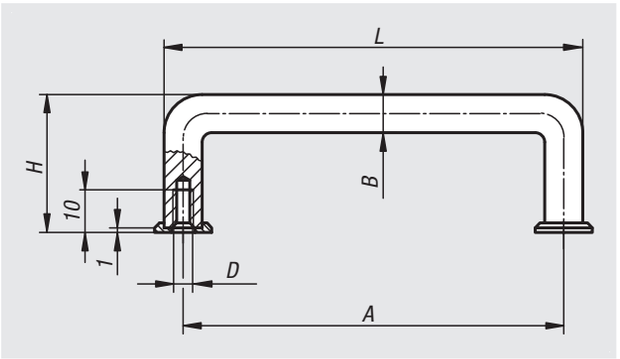
Assembly:
From the rear.

Order No.	Form	A	B	C	D	H	L	S	T	Load capacity N
06916-01-2100054	B	100	17	10,3	M5	34	122,5	20	9	1000
06916-01-2120064	B	120	21	12,4	M6	41	146	24	12	1000
06916-01-2140084	B	140	24	15,4	M8	46,5	170	28	12	1000

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Pull handles round





Material:
Round aluminium

Version:
Surface matt-finished and natural colour or black anodised

Sample order:
nlm 06917-055051

Note:
End washers not included.

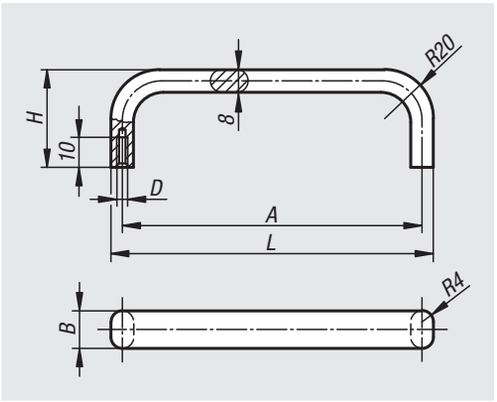
Assembly:
From the rear.

Order No.	Main colour	A	B	D	H	L	Load capacity N	Order No. end washer
06917-055051	black	55	10	M5	40	65	500	06917-1
06917-088051	black	88	10	M5	40	98	500	06917-1
06917-100051	black	100	10	M5	40	110	500	06917-1
06917-120051	black	120	10	M5	40	130	500	06917-1
06917-180051	black	180	10	M5	40	190	500	06917-1
06917-200051	black	200	10	M5	40	210	500	06917-1
06917-235051	black	235	10	M5	40	245	500	06917-1
06917-250051	black	250	10	M5	41	260	500	06917-1
06917-055053	natural	55	10	M5	40	65	500	06917-3
06917-088053	natural	88	10	M5	40	98	500	06917-3
06917-100053	natural	100	10	M5	40	110	500	06917-3
06917-120053	natural	120	10	M5	40	130	500	06917-3
06917-180053	natural	180	10	M5	40	190	500	06917-3
06917-200053	natural	200	10	M5	40	210	500	06917-3
06917-235053	natural	235	10	M5	40	245	500	06917-3
06917-250053	natural	250	10	M5	40	260	500	06917-3

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Pull handles oval





Material:
Oval aluminium.

Version:
Surface matt-finished and natural colour or black anodised.

Sample order:
nlm 06918-055051

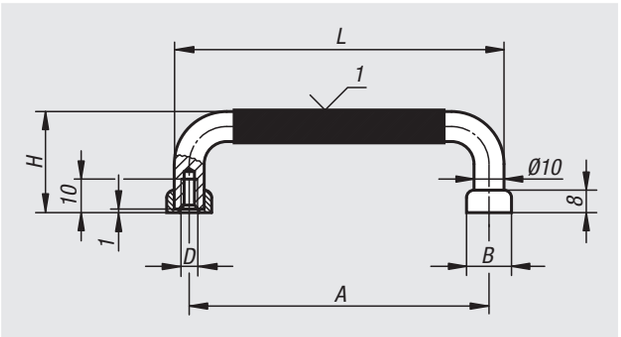
Assembly:
From the rear.

Order No. black	Order No. natural	A	B	D	H	L	Load capacity N
06918-055051	**06918-055053**	55	12	M5	40	63	500
06918-088051	**06918-088053**	88	12	M5	40	96	500
06918-100051	**06918-100053**	100	12	M5	40	108	500
06918-120051	**06918-120053**	120	12	M5	40	128	500
06918-180051	**06918-180053**	180	12	M5	40	188	500
06918-200051	**06918-200053**	200	12	M5	40	208	500
06918-235051	**06918-235053**	235	12	M5	40	243	500
06918-250051	**06918-250053**	250	12	M5	40	258	500

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Pull handles round





Material:
Round steel

Version:
Surface very finely ground and matt-polish chrome-plated.
Grip plastic coated.

Sample order:
nlm 06919-05505

Note:
High quality handles for front panels and similar applications.

Assembly:
From the rear.

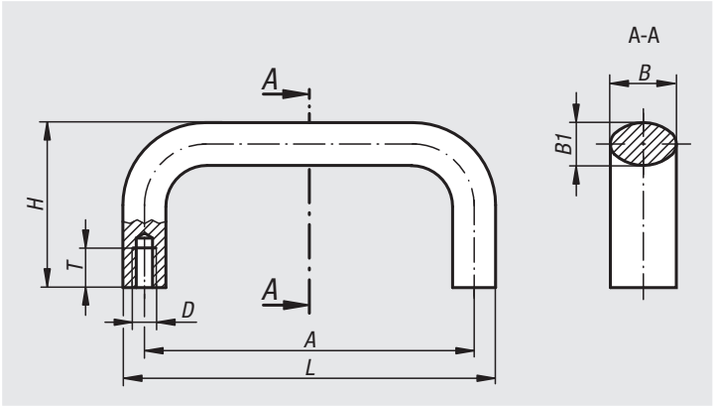
Drawing reference:
1) plastic coating

Order No.	A	B	D	H	L	Load capacity N
06919-05505	55	14	M5	41	65	1000
06919-08805	88	14	M5	41	98	1000
06919-10005	100	14	M5	41	110	1000
06919-10205	102	14	M5	41	112	1000
06919-11505	115	14	M5	41	125	1000
06919-12005	120	14	M5	41	130	1000
06919-13605	136	14	M5	41	146	1000
06919-18005	180	14	M5	41	190	1000
06919-20005	200	14	M5	41	210	1000
06919-23505	235	14	M5	41	245	1000
06919-25005	250	14	M5	41	260	1000

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Pull handles oval





Material:
Oval aluminium EN AW-6060

Version:
Black or ruby red RAL 3003 powder-coated or natural colour anodised.

Sample order:
nlm 06920-10001

Note:
These handles are extremely robust and can be used where heavy duty equipment is called for.

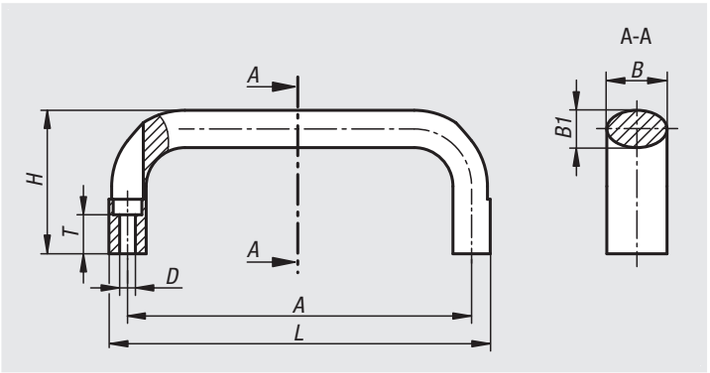
Assembly:
From the rear.

Order No. black powder-coated	Order No. natural anodised	Order No. ruby red powder-coated	A	B	B1	D	H	T	L	Load capacity N
06920-10001	**06920-110003**	**06920-10027**	100	21	13	M6	50	12	113	1000
06920-11201	**06920-111203**	**06920-11227**	112	21	13	M6	50	12	125	1000
06920-1120108	**06920-11120308**	**06920-1122708**	112	25	17	M8	55	14	129	1000
06920-12001	**06920-112003**	**06920-12027**	120	21	13	M6	50	12	133	1000
06920-1200108	**06920-11200308**	**06920-1202708**	120	25	17	M8	55	14	137	1000
06920-12801	**06920-112803**	**06920-12827**	128	21	13	M6	50	12	141	1000
06920-1280108	**06920-11280308**	**06920-1282708**	128	25	17	M8	55	14	145	1000
06920-1600106	**06920-11600306**	**06920-1602706**	160	21	13	M6	50	12	173	1000
06920-16001	**06920-116003**	**06920-16027**	160	25	17	M8	55	14	177	1000
06920-18001	**06920-118003**	**06920-18027**	180	25	17	M8	55	14	197	1000
06920-19201	**06920-119203**	**06920-19227**	192	25	17	M8	55	14	209	1000
06920-35001	**06920-135003**	**06920-35027**	350	25	17	M8	55	14	367	1000

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Pull handles oval





Material:
Oval aluminium EN AW-6060

Version:
Black or ruby red RAL 3003, powder-coated.

Sample order:
nlm 06920-11000105

Assembly:
From the front.

Accessories:
Use ISO 4762-M5/M6 cap screws for mounting the handles.

Order No. black	Order No. ruby red	A	B	B1	D	H	L	T	Load capacity N
06920-11000105	**06920-11002705**	100	21	13	5,5	50	113	13,6	1000
06920-11120105	**06920-11122705**	112	21	13	5,5	50	125	13,6	1000
06920-11120106	**06920-11122706**	112	25	17	6,6	55	129	11	1000
06920-11200105	**06920-11202705**	120	21	13	5,5	50	133	13,6	1000
06920-11200106	**06920-11202706**	120	25	17	6,6	55	137	11	1000
06920-11280105	**06920-11282705**	128	21	13	5,5	50	141	13,6	1000
06920-11280106	**06920-11282706**	128	25	17	6,6	55	145	11	1000
06920-11600105	**06920-11602705**	160	21	13	5,5	50	173	13,6	1000
06920-11600106	**06920-11602706**	160	25	17	6,6	55	177	11	1000
06920-11800106	**06920-11802706**	180	25	17	6,6	55	197	11	1000

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Pull handles oval

detachable

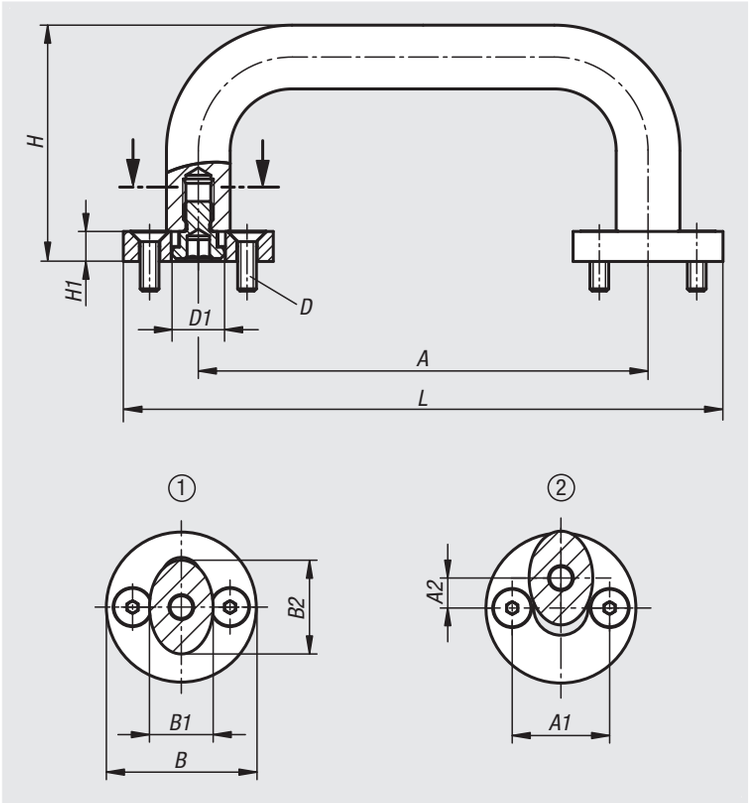


Material:
Pull handle oval aluminium EN AW-6060.
Locating pin free-cutting steel 1.0718.
Blanking disc free-cutting steel 1.0718.

Version:
Pull handle black powder-coated.
Locating pin and blanking disc black oxidised.

Sample order:
nlm 06920-10012001

Note:
The pull handles are mounted on an object by a push-fit system.
Dismantling is carried out when no load is applied.



Order No.	A	A1	A2	B	B1	B2	D	D1	H	H1	L	Load capacity N
06920-10012001	100	24	7	35	13	21	M5x16	12	58	8	135	1000
06920-11212001	112	24	7	35	13	21	M5x16	12	58	8	147	1000
06920-11214001	112	26	8	40	15	25	M5x16	14	63	8	152	1000
06920-12012001	120	24	7	35	13	21	M5x16	12	58	8	155	1000
06920-12014001	120	26	8	40	17	25	M5x16	14	63	8	160	1000
06920-12812001	128	24	7	35	13	21	M5x16	12	58	8	163	1000
06920-12814001	128	26	8	40	17	25	M5x16	14	63	8	168	1000
06920-16012001	160	24	7	35	13	21	M5x16	12	58	8	195	1000
06920-16014001	160	26	8	40	17	25	M5x16	14	63	8	200	1000
06920-18014001	180	26	8	40	17	25	M5x16	14	63	8	220	1000
06920-19214001	192	26	8	40	17	25	M5x16	14	63	8	232	1000
06920-35014001	350	26	8	40	17	25	M5x16	14	63	8	390	1000

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Pull handles oval

detachable

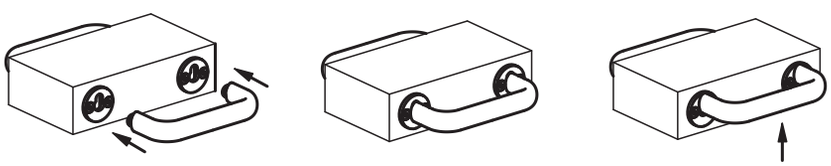
Application:
Insert the pull handle into the opening until the grip makes contact with the blanking disc.
Lock by holding the handle parallel and pulling up.
The grip can only be subject to vertical loads.
To release, follow the previous instructions in reverse.

Assembly:
An object must be prepared before the blanking disc can be mounted.
See mounting instructions drawing.

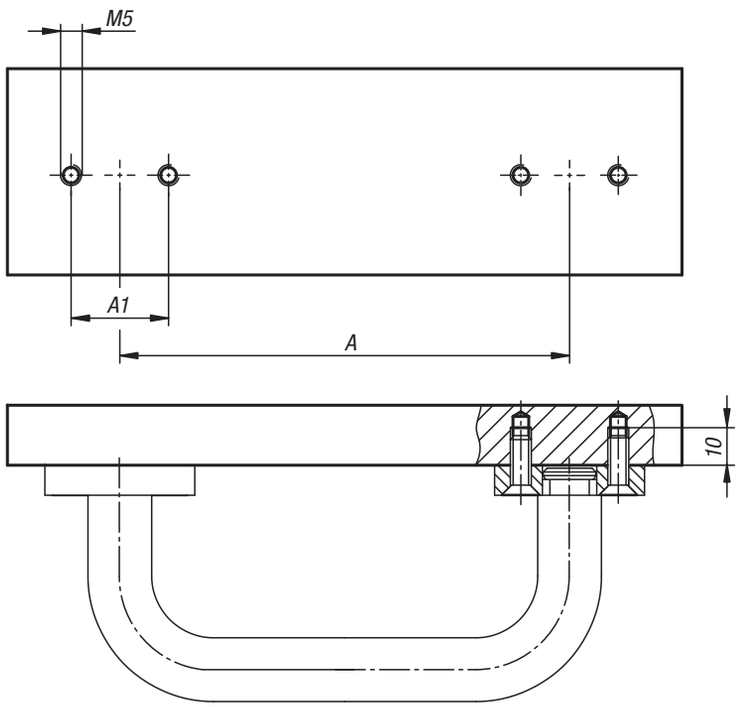
Drawing reference:
1) Position disengaged
2) Position engaged

S = insert
E = engage
A = lift





mounting instructions:



Pull handles



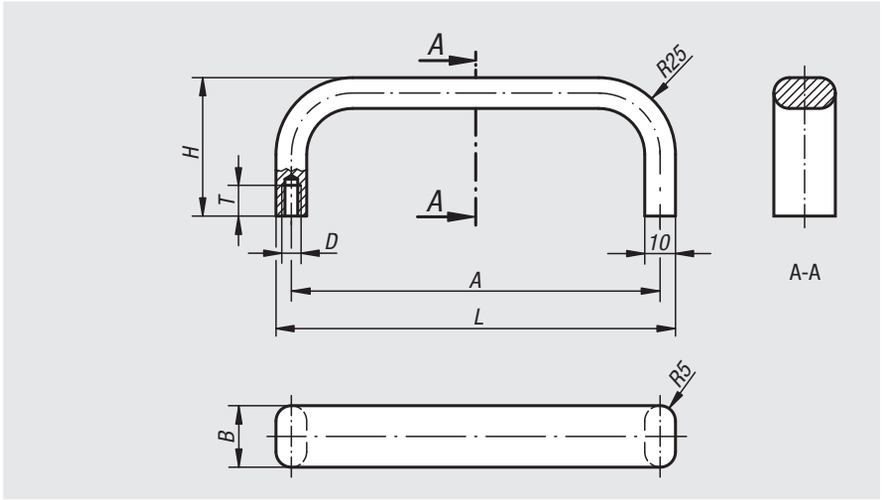
Material:
Profile aluminium EN AW-6060

Version:
Matt-finished, black or natural colour anodised

Sample order:
nlm 06921-18001

Note:
These elegant flat profile aluminium handles are especially suitable for machines, fixtures, equipment etc.

Assembly:
From the rear.



Order No. black	Order No. natural	A	B	D	H	L	T	Load capacity N
06921-12001	**06921-12003**	120	20	M5	45	130	10	500
06921-18001	**06921-18003**	180	20	M5	45	190	10	500
06921-20001	**06921-20003**	200	20	M5	45	210	10	500
06921-35001	**06921-35003**	350	20	M6	45	360	12	500

Pull handles

stainless steel



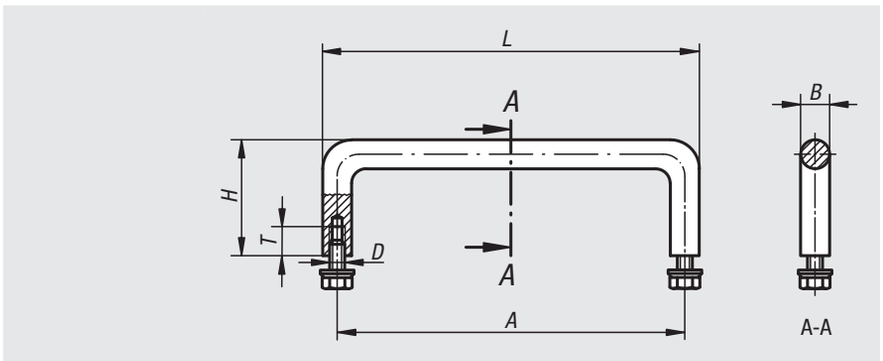
Material:
Pull handle 1.4404 stainless steel.
Fastening material grade A4.

Version:
Semi-gloss vibratory ground.

Sample order:
nlm 06922-120

Note:
Stainless steel pull handles are used mainly on equipment in the medical and food industry as well as in laboratories and neuclear technology.

Assembly:
From the rear.



Order No.	A	B	D	H	L	T	Load capacity N
06922-100	100	8	M5x10	35	108	10	1000
06922-120	120	10	M5x10	40	130	10	1000
06922-250	250	10	M5x10	40	260	10	1000
06922-350	350	10	M5x10	40	360	10	1000

06923

Pull handles angled

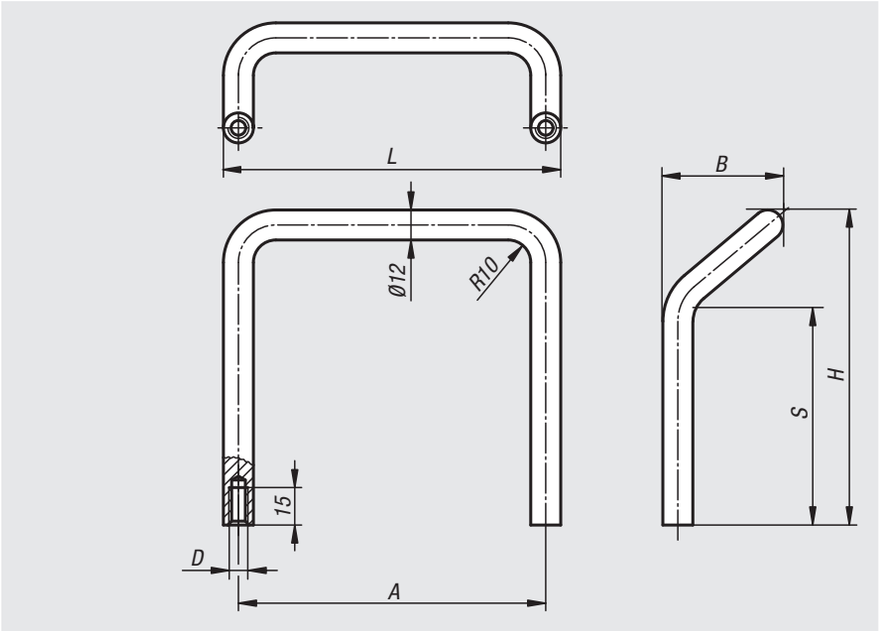


Material:
Round steel

Version:
Finely ground and high-gloss chrome-plated.

Sample order:
nlm 06923-06008

Assembly:
From the rear.



Order No.	A	B	D	H	L	S	Load capacity N
06923-06008	120	47	M8	66	132	27	1000
06923-12008	120	47	M8	126	132	87	1000

06924

Pull handles

stainless steel

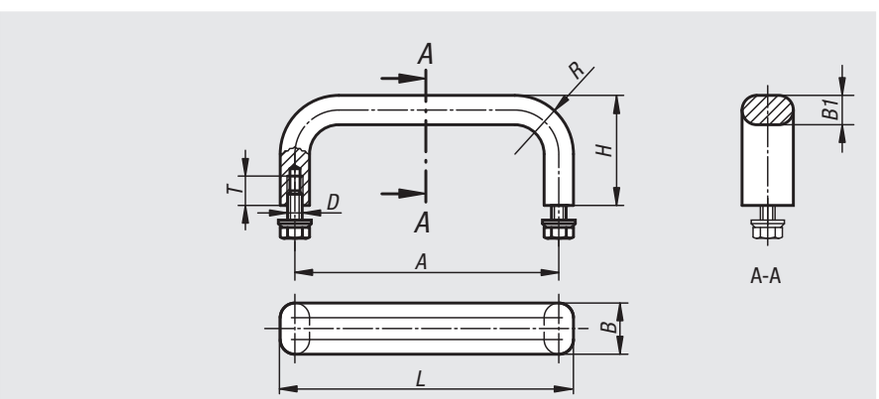


Material:
Handle stainless steel 1.4404.
Fastening material 1.4301.

Version:
Vibratory ground semi-gloss finish.

Sample order:
nlm 06924-10005

Assembly:
From the rear.



Order No.	A	B	B1	D	H	L	R	T	Load capacity N
06924-10005	100	12	8	M5x10	40	108	22	10	1000
06924-12005	120	12	8	M5x10	40	128	22	10	1000
06924-15005	150	12	8	M5x10	40	158	22	10	1000
06924-18005	180	12	8	M5x10	40	188	22	10	1000
06924-25005	250	12	8	M5x10	40	258	22	10	1000
06924-10006	100	19,5	10	M6x12	45	110	24	12	1000
06924-12006	120	19,5	10	M6x12	45	130	24	12	1000
06924-15006	150	19,5	10	M6x12	45	160	24	12	1000
06924-18006	180	19,5	10	M6x12	45	190	24	12	1000
06924-25006	250	19,5	10	M6x12	45	260	24	12	1000

Pull handles tubular



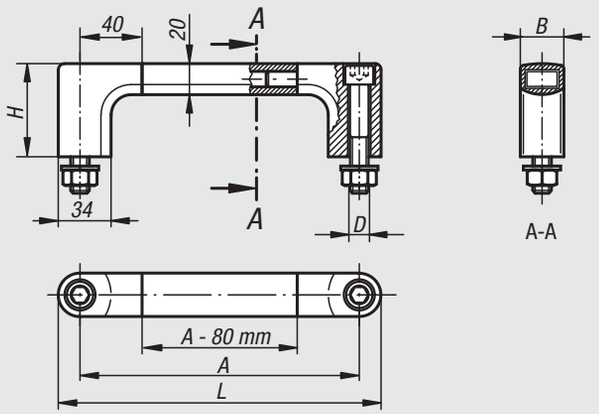
Material:
Aluminium.

Version:
Leg black powder-coated.
Grip natural colour anodised.

Sample order:
nlm 06925-300

Note:
Black electro zinc-plated M12x70 cap screws, suitable washers and nuts for fastening are supplied.

Assembly:
From the front.



Order No.	A	B	D	H	L	Load capacity N
06925-180	180	28	M12	60	208	1000
06925-200	200	28	M12	60	228	1000
06925-250	250	28	M12	60	278	1000
06925-300	300	28	M12	60	328	1000
06925-350	350	28	M12	60	378	1000
06925-400	400	28	M12	60	428	1000
06925-500	500	28	M12	60	528	1000
06925-600	600	28	M12	60	628	1000

Pull handles tubular



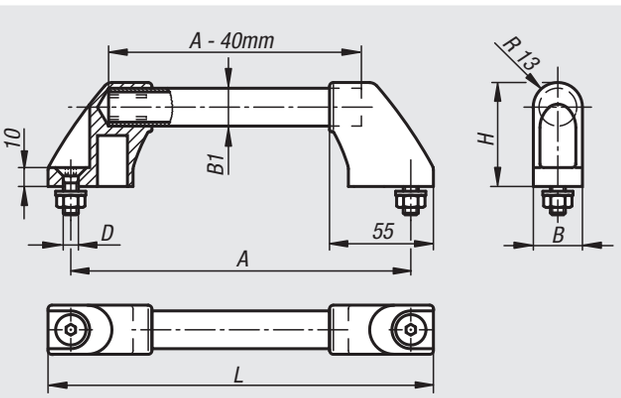
Material:
Legs black glass-bead reinforced thermoplastic.
Grip tube aluminium.

Version:
Grip, ground and natural colour anodised
Grip with serrated plastic sheath, black

Sample order:
nlm 06926-200

Note:
The legs have 4 webs in the hole for the grip tube. When pushing the tube in, these are trimmed off and produce a precise seating.
Black electro zinc-plated fastening screws, suitable washers and nuts are supplied.

Assembly:
From the front.

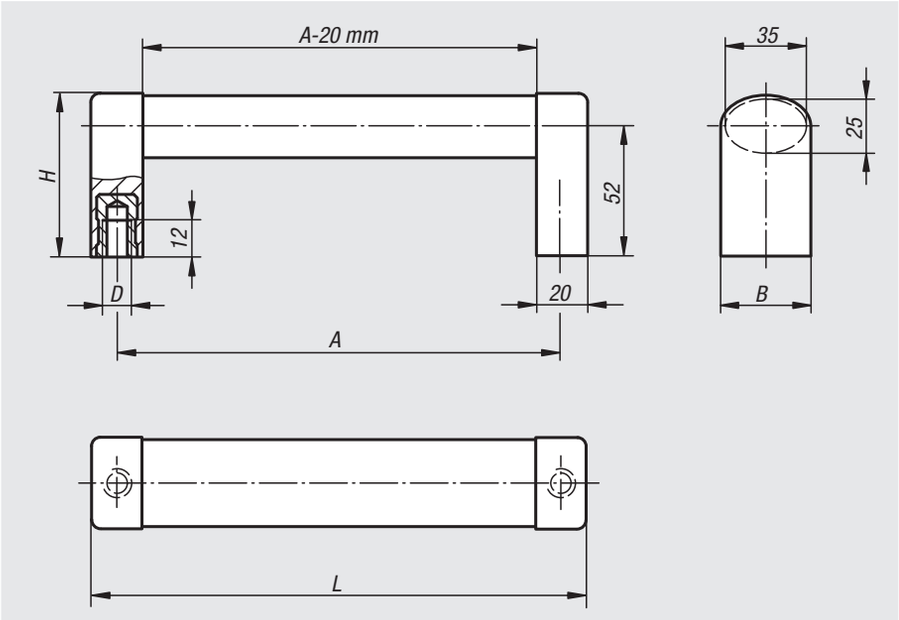


Order No. ground and anodised	Order No. serrated plastic sleeve	A	B	B1	D	H	L	Load capacity N
06926-180	**06926-1803**	180	26	20X2	M8x20	55	204	500
06926-200	**06926-2003**	200	26	20X2	M8x20	55	224	500
06926-250	**06926-2503**	250	26	20X2	M8x20	55	274	500
06926-300	**06926-3003**	300	26	20X2	M8x20	55	324	500
06926-350	**06926-3503**	350	26	20X2	M8x20	55	374	500
06926-400	**06926-4003**	400	26	20X2	M8x20	55	424	500
06926-500	**06926-5003**	500	26	20X2	M8x20	55	524	500
06926-600	**06926-6003**	600	26	20X2	M8x20	55	624	500

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Pull handles tubular





Material:
Grip aluminium EN AW-6060.
Legs polyamide glass-bead reinforced.
Bushing brass.
Clamping sleeves stainless steel.

Version:
Grip natural colour or black anodised.
Legs aluminium colour or black.

Sample order:
nlm 06927-1200081

Note:
Oval-profile handles for joining together. Version with plastic legs and aluminium oval grip.

Assembly:
From the rear.

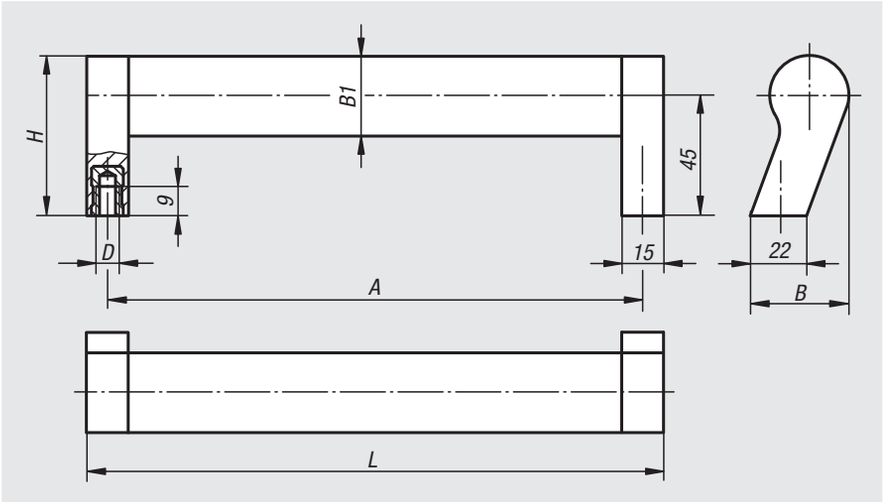
Order No.	Main colour	Component colour	A	B	D	H	L	Load capacity N
06927-1200081	natural	aluminium tone	200	36	M8	65	220	1000
06927-1250081	natural	aluminium tone	250	36	M8	65	270	1000
06927-1300081	natural	aluminium tone	300	36	M8	65	320	1000
06927-1400081	natural	aluminium tone	400	36	M8	65	420	1000
06927-1500081	natural	aluminium tone	500	36	M8	65	520	1000
06927-1200082	natural	black	200	36	M8	65	220	1000
06927-1250082	natural	black	250	36	M8	65	270	1000
06927-1300082	natural	black	300	36	M8	65	320	1000
06927-1400082	natural	black	400	36	M8	65	420	1000
06927-1500082	natural	black	500	36	M8	65	520	1000
06927-1200083	black	black	200	36	M8	65	220	1000
06927-1250083	black	black	250	36	M8	65	270	1000
06927-1300083	black	black	300	36	M8	65	320	1000
06927-1400083	black	black	400	36	M8	65	420	1000
06927-1500083	black	black	500	36	M8	65	520	1000

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Pull handles tubular

oblique





Material:
Grip tube aluminium EN AW-6060;
Legs polyamide, glass-bead reinforced;
Bushing brass

Version:
Tube matt-polished anodised.
Legs black

Sample order:
nlm 06928-2150061

Note:
Oblique tubular pull handles in modern industrial design. Webs on the leg spigot provide a precision fit for the tube.

Assembly:
From the rear.

Order No.	A	B	B1	D	H	L	Load capacity N
06928-2150061	150	37	30X1,5	M6	60	165	800
06928-2200061	200	37	30X1,5	M6	60	215	800
06928-2250061	250	37	30X1,5	M6	60	265	800
06928-2300061	300	37	30X1,5	M6	60	315	800
06928-2350061	350	37	30X1,5	M6	60	365	800
06928-2400061	400	37	30X1,5	M6	60	415	800

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Pull handles

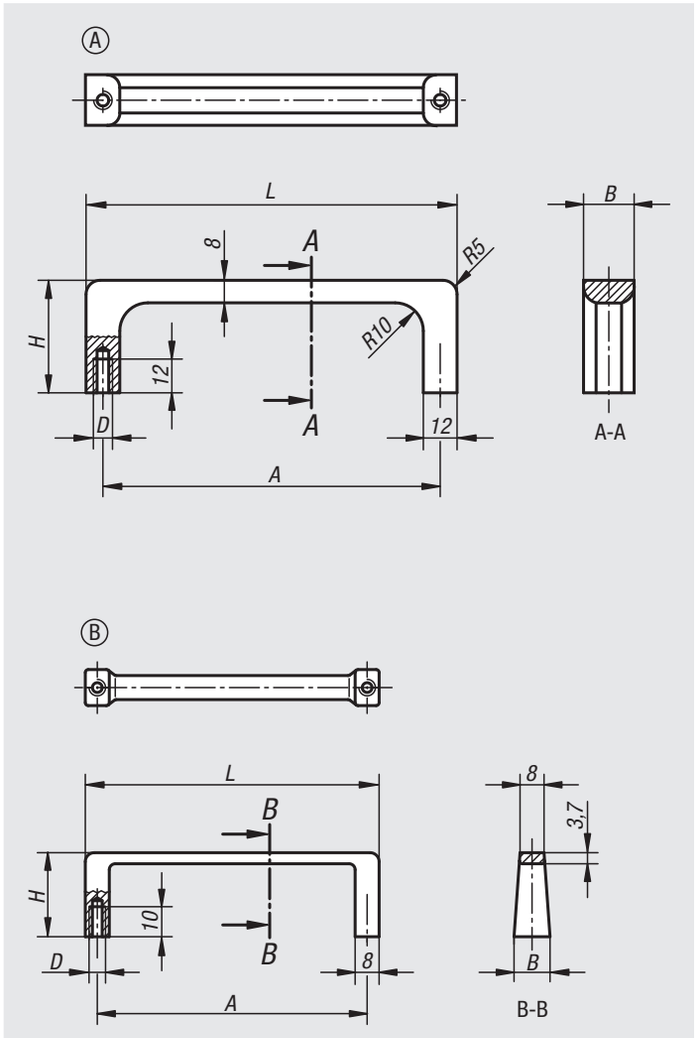


Material:
Profile aluminium EN AW-6060

Version:
Matt-finished, anodised black or natural tone.

Sample order:
nlm 06929-12001

Assembly:
From the rear.



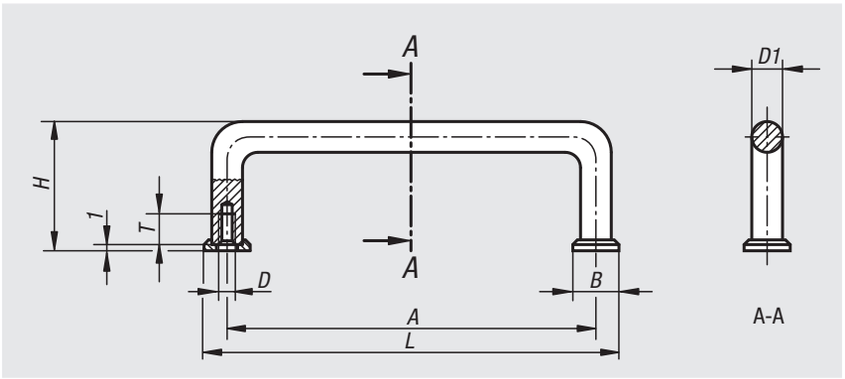
Order No.	Form	Main colour	A	B	D	H	L	Load capacity N
06929-12001	A	black	120	18	M6	40	132	500
06929-09001	B	black	90	12	M5	28	98	300
06929-12003	A	natural	120	18	M6	40	132	500
06929-09003	B	natural	90	12	M5	28	98	300

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Pull handles

high-gloss chromed





Material:
Steel.

Version:
Disc very finely ground.
Pull handle high-gloss chromed.

Sample order:
nlm 06930-10204

Note:
These pull handles are used primarily on optical devices, laboratory installations, audio, video and hi-fi equipment, etc. The end washers are supplied loose.

Assembly:
From the rear.

On request:
Other surface finishes.

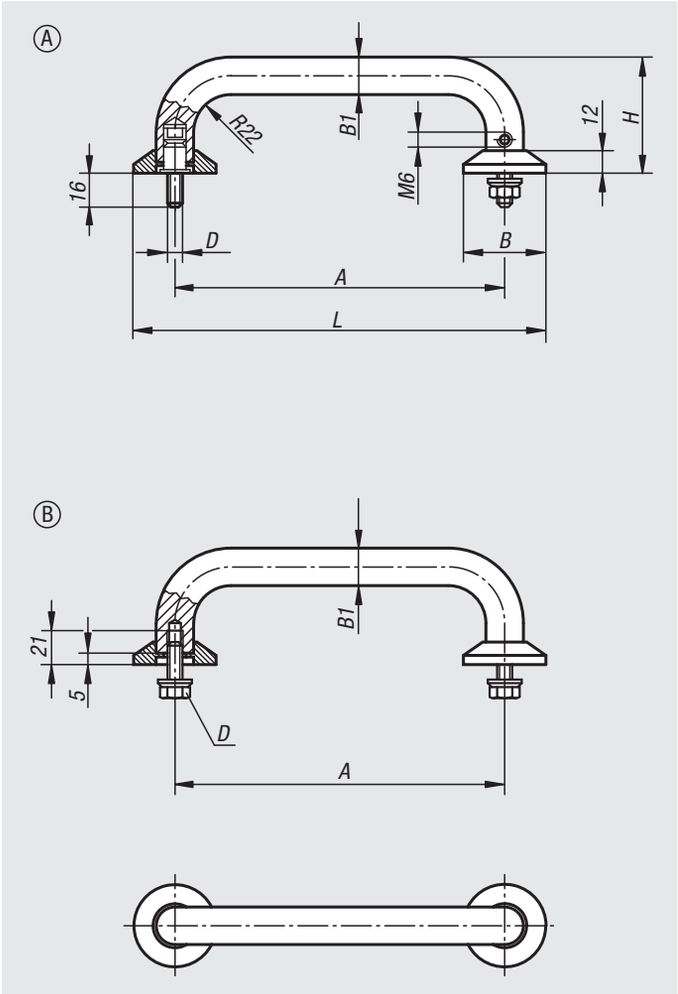
Order No.	A	B	D	D1	H	L	T	Load capacity N
06930-03203	32	8	M3	5	21	40	6	1000
06930-04203	42	8	M3	5	25	50	6	1000
06930-05503	55	8	M3	5	25	63	6	1000
06930-07603	76	8	M3	5	25	84	6	1000
06930-08803	88	8	M3	5	25	96	6	1000
06930-03204	32	12,5	M4	8	33	44,5	8	1000
06930-05504	55	12,5	M4	8	33	67,5	8	1000
06930-06404	64	12,5	M4	8	33	76,5	8	1000
06930-08804	88	12,5	M4	8	33	100,5	8	1000
06930-09604	96	12,5	M4	8	33	108,5	8	1000
06930-09804	98	12,5	M4	8	33	110,5	8	1000
06930-10204	102	12,5	M4	8	33	114,5	8	1000
06930-12004	120	12,5	M4	8	33	132,5	8	1000
06930-12804	128	12,5	M4	8	33	140,5	8	1000
06930-13604	136	12,5	M4	8	33	148,5	8	1000
06930-05505	55	15	M5	10	41	70	10	1000
06930-08805	88	15	M5	10	41	103	10	1000
06930-10005	100	15	M5	10	41	115	10	1000
06930-10205	102	15	M5	10	41	117	10	1000
06930-11505	115	15	M5	10	41	130	10	1000
06930-12005	120	15	M5	10	41	135	10	1000
06930-13605	136	15	M5	10	41	151	10	1000
06930-18005	180	15	M5	10	41	195	10	1000
06930-20005	200	15	M5	10	41	215	10	1000
06930-23505	235	15	M5	10	41	250	10	1000
06930-25005	250	15	M5	10	41	265	10	1000

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Pull handles

stainless steel





Material:
Pull Handle and fasteners 1.4404 stainless steel.

Version:
Ground and satin brushed finish.

Sample order:
nlm 06931-2001

Note:
These stainless steel pull handles are ideal for all technical applications where highest load and high chemical or corrosive resistance is required.

Assembly:
From the rear.

Drawing reference:
Form A
fastening from the front.
Form B
fastening from the rear.

Order No.	Form	A	B	B1	D	H	L	Load capacity N
06931-2001	A	200	50	20	M8	75	250	1000
06931-2501	A	250	50	20	M8	75	300	1000
06931-2002	B	200	50	20	M8	75	250	1000
06931-2502	B	250	50	20	M8	75	300	1000

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Pull handles



19"

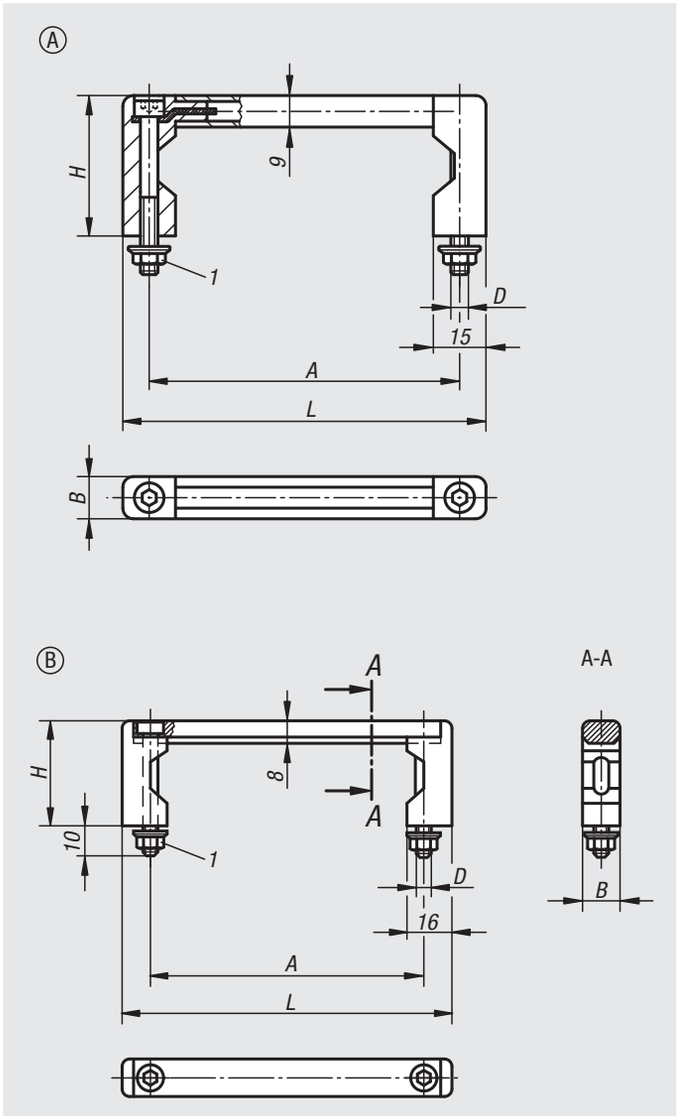
Material:
Grip aluminium.
Legs glass-bead reinforced polyamide.

Version:
Grip matt-finished and natural tone or black anodised.
Legs fine structure semi-matt, black.

Sample order:
nlm 06932-10001

Assembly:
From the front.

Drawing reference:
1) Toothed locknut

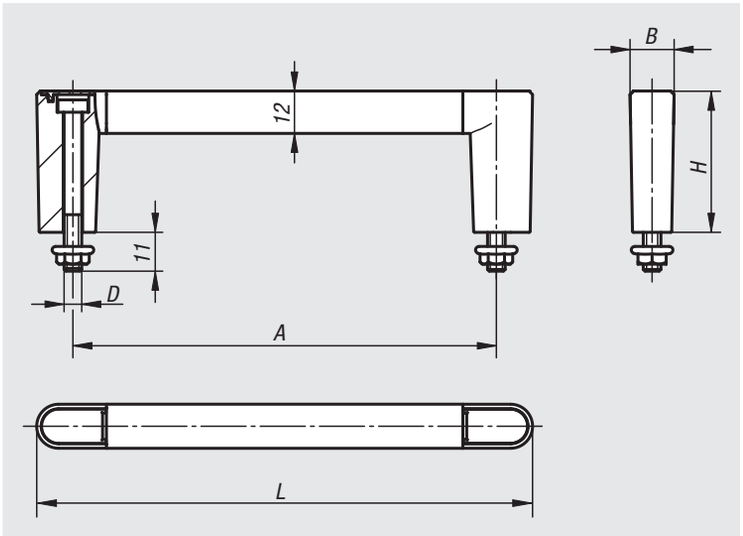


Order No. black	Order No. natural	Form	A	B	D	H	L	Load capacity N
06932-05501	06932-05503	A	55	12	M5	40	70	1000
06932-08801	06932-08803	A	88	12	M5	40	103	1000
06932-10001	06932-10003	A	100	12	M5	40	115	1000
06932-12001	06932-12003	A	120	12	M5	40	135	1000
06932-18001	06932-18003	A	180	12	M5	40	195	1000
06932-23501	06932-23503	A	235	12	M5	40	250	1000
06932-055101	06932-055103	B	55	12	M5	40	75	1000
06932-088101	06932-088103	B	88	12	M5	40	108	1000
06932-100101	06932-100103	B	100	12	M5	40	120	1000
06932-120101	06932-120103	B	120	12	M5	40	140	1000
06932-180101	06932-180103	B	180	12	M5	40	200	1000
06932-235101	06932-235103	B	235	12	M5	40	255	1000

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Pull handles





Material:
Grip aluminium.
Legs and cap PA 6.
Screw and flange nut steel.

Version:
Grip natural colour or black anodised.
Screw and flange nut electro zinc-plated.

Sample order:
nlm 06932-120203

Note:
- 19“
- Closed design
- Simple assembly
- The cap is tapped on using a plastic hammer

Order No. black	Order No. natural	A	B	D	H	L	Load capacity N
06932-055201	**06932-055203**	55	12,5	M5	40	75,5	1000
06932-088201	**06932-088203**	88	12,5	M5	40	108,5	1000
06932-100201	**06932-100203**	100	12,5	M5	40	120,5	1000
06932-120201	**06932-120203**	120	12,5	M5	40	140,5	1000
06932-180201	**06932-180203**	180	12,5	M5	40	200,5	1000
06932-235201	**06932-235203**	235	12,5	M5	40	255,5	1000

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Pull handles

19″

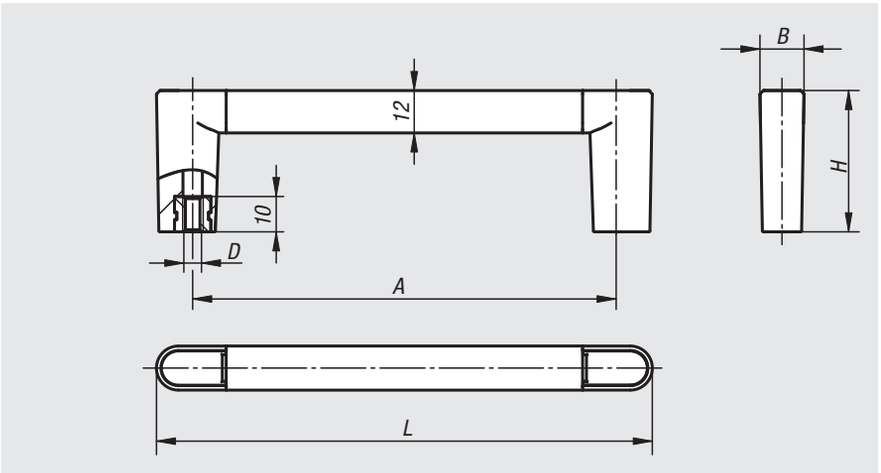


Material:
Grip aluminium.
Legs and cap PA 6.
Tapped bush steel.

Version:
Grip natural colour or black anodised.
Tapped bush electro zinc-plated.

Sample order:
nlm 06933-120101

Note:
- 19“
- Closed design
- Simple assembly
- The cap is tapped on using a plastic hammer



Order No. black	Order No. natural	A	B	D	H	L	Load capacity N
06933-055101	**06933-055103**	55	12,5	M5	40	75,5	1000
06933-088101	**06933-088103**	88	12,5	M5	40	108,5	1000
06933-100101	**06933-100103**	100	12,5	M5	40	120,5	1000
06933-120101	**06933-120103**	120	12,5	M5	40	140,5	1000
06933-180101	**06933-180103**	180	12,5	M5	40	200,5	1000
06933-235101	**06933-235103**	235	12,5	M5	40	255,5	1000

06933

Pull handles

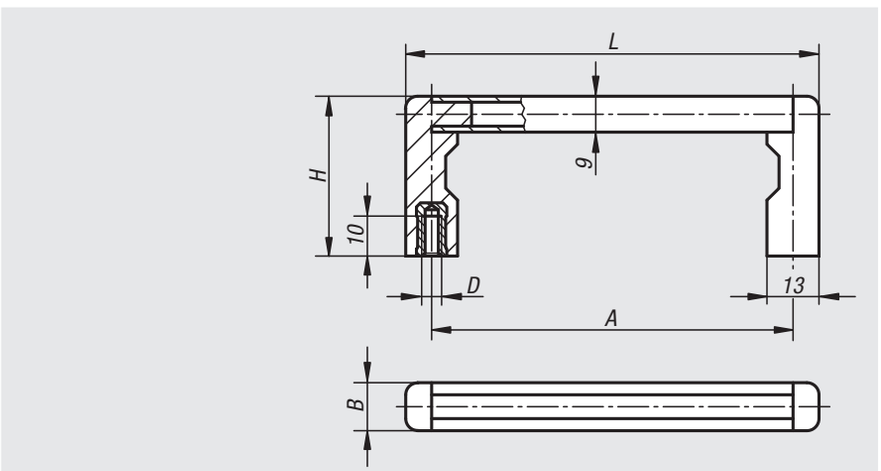
19″



Material:
Grip aluminium.
Legs high-strength plastic

Sample order:
nlm 06933-05501

Assembly:
From the rear.

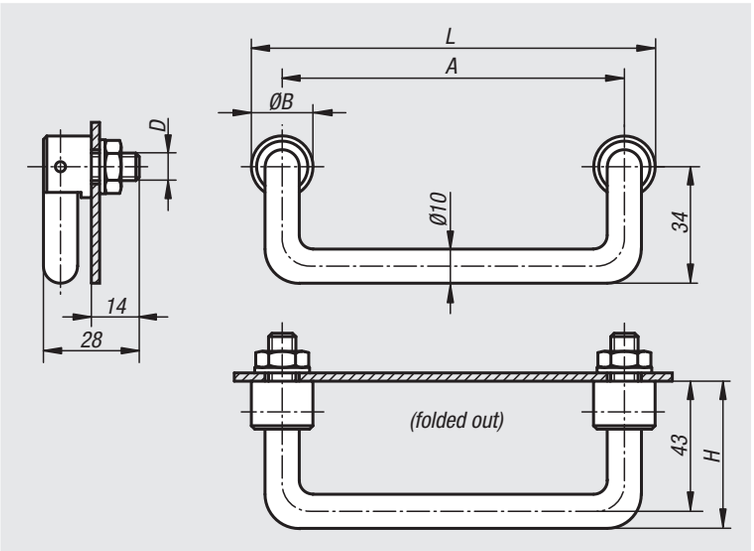


Order No. black	Order No. natural	A	B	D	H	L	Load capacity N
06933-05501	**06933-05503**	55	12	M5	40	69	1000
06933-08801	**06933-08803**	88	12	M5	40	102	1000
06933-10001	**06933-10003**	100	12	M5	40	114	1000
06933-12001	**06933-12003**	120	12	M5	40	134	1000
06933-18001	**06933-18003**	180	12	M5	40	194	1000
06933-23501	**06933-23503**	235	12	M5	40	249	1000

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Pull handles fold-down





Material:
Steel or 1.4305 stainless steel

Version:
Steel version:
Surface finely ground and high-gloss chromed or with a smooth plastic cover on the grip.

Stainless steel version:
Surface semi-gloss score-free vibratory ground.

Sample order:
nlm 06934-1201

Note:
Steel or stainless steel fastening material is provided.
Spring lock in both end positions.

Assembly:
From the rear.

Order No. steel	Order No. steel with plastic cover	Order No. stainless steel	A	B	D	H	L	Load capacity N
06934-1001	**06934-1002**	**06934-1003**	100	18	M10x1	48	118	500
06934-1201	**06934-1202**	**06934-1203**	120	18	M10x1	48	138	500
06934-1801	**06934-1802**	**06934-1803**	180	18	M10x1	48	198	500

Pull handles angled

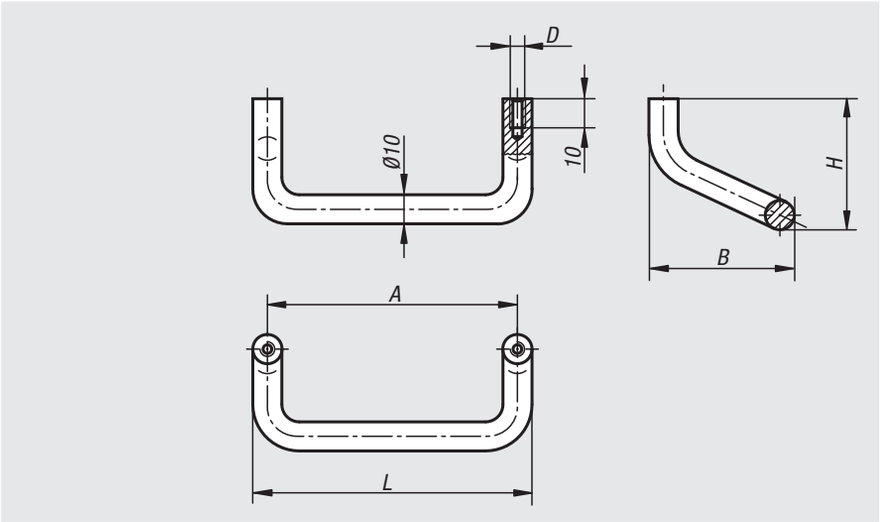


Material:
Aluminium.

Version:
Matt-finished, anodised black or natural tone.

Sample order:
nlm 06935-12001

Assembly:
From the rear.



Order No. black	Order No. natural	A	B	D	H	L	Load capacity N
06935-08601	06935-08603	86	40	M5	45	96	500
06935-12001	06935-12003	120	40	M5	45	130	500
06935-18001	06935-18003	180	40	M5	45	190	500

06936

Pull handles tubular angled



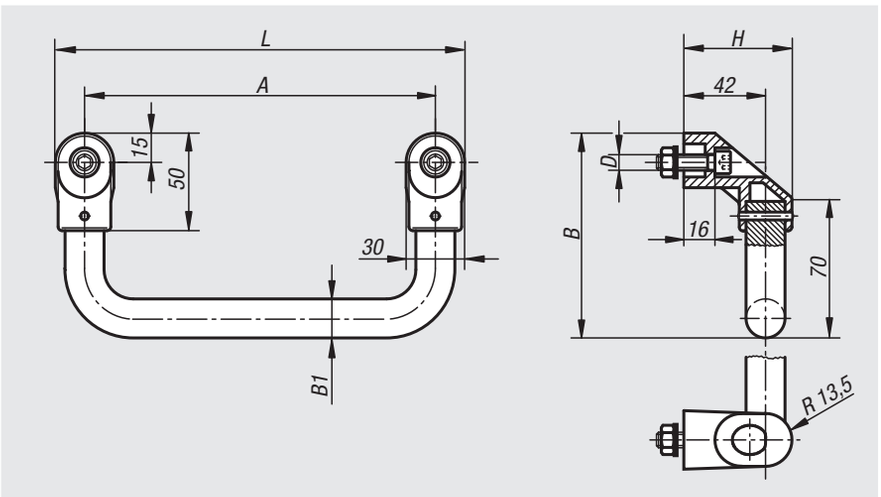
Material:
Leg glass-bead reinforced thermoplastic.
Grip aluminium tube.

Version:
Black thermoplastic.
Anodised aluminium.

Sample order:
nlm 06936-3002

Note:
The legs are pinned to the aluminium tube. Black electro zinc-plated cap screws, nuts and washers are supplied.

Assembly:
From the front.



Order No. natural	Order No. black	A	B	B1	D	H	L	Load capacity N
06936-2001	06936-2002	200	115	20	M8X30	55,5	230	800
06936-2501	06936-2502	250	115	20	M8X30	55,5	280	800
06936-3001	06936-3002	300	115	20	M8X30	55,5	330	800
06936-3501	06936-3502	350	115	20	M8X30	55,5	380	800
06936-4001	06936-4002	400	115	20	M8X30	55,5	430	800

Pull handles tubular



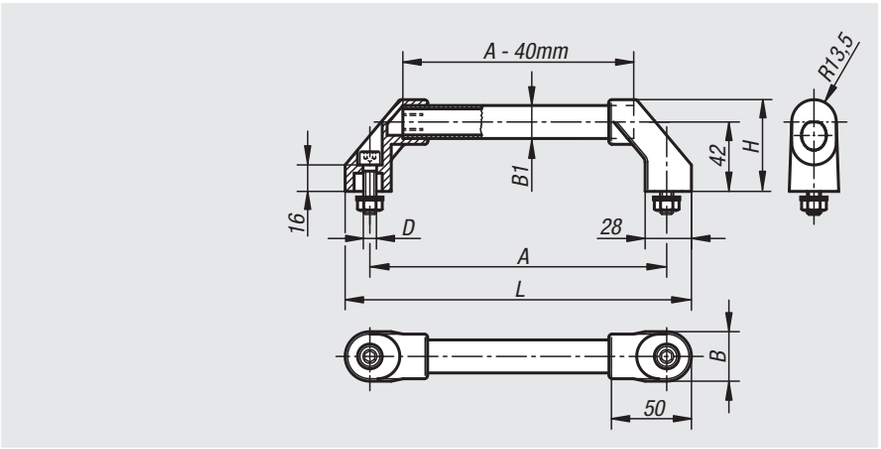
Material:
Legs black glass-bead reinforced thermoplastic.
Grip aluminium EN AW-6060.

Version:
Grip, ground and natural colour anodised
Grip with serrated plastic sheath, black

Sample order:
nlm 06937-3001

Note:
The legs have 4 webs in the hole for the grip tube. When pushing the tube in these are trimmed off and produce a precise seating. Black electro zinc-plated fastening screws, suitable washers and nuts are supplied.

Assembly:
From the front.



Order No. ground and anodised	Order No. serrated plastic sleeve	A	B	B1	D	H	L	Load capacity N
06937-1801	**06937-1802**	180	30	20X2	M8X30	55,5	210	1000
06937-2001	**06937-2002**	200	30	20X2	M8X30	55,5	230	1000
06937-2501	**06937-2502**	250	30	20X2	M8X30	55,5	280	1000
06937-3001	**06937-3002**	300	30	20X2	M8X30	55,5	330	1000
06937-3501	**06937-3502**	350	30	20X2	M8X30	55,5	380	1000
06937-4001	**06937-4002**	400	30	20X2	M8X30	55,5	430	1000
06937-5001	**06937-5002**	500	30	20X2	M8X30	55,5	530	1000
06937-6001	**06937-6002**	600	30	20X2	M8X30	55,5	630	1000

06938

Pull handles tubular



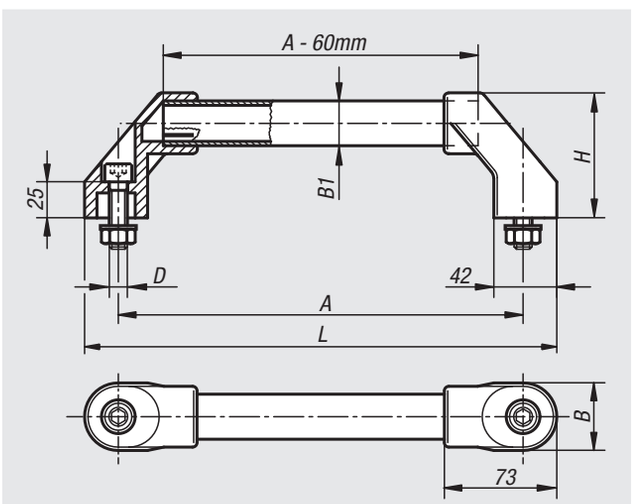
Material:
Legs black glass-bead reinforced thermoplastic.
Grip aluminium EN AW-6060 or stainless steel 1.4301.

Version:
Connecting tube aluminium, ground and natural tone anodised or with serrated plastic cover.
Connecting tube stainless steel, fine ground.

Sample order:
nlm 06938-3501

Note:
The legs have 4 webs in the hole for the grip tube. When pushing the tube in these are trimmed off and produce a precise seating.
Black electro zinc-plated fastening screws together with washers and nuts are supplied.

Assembly:
From the front.



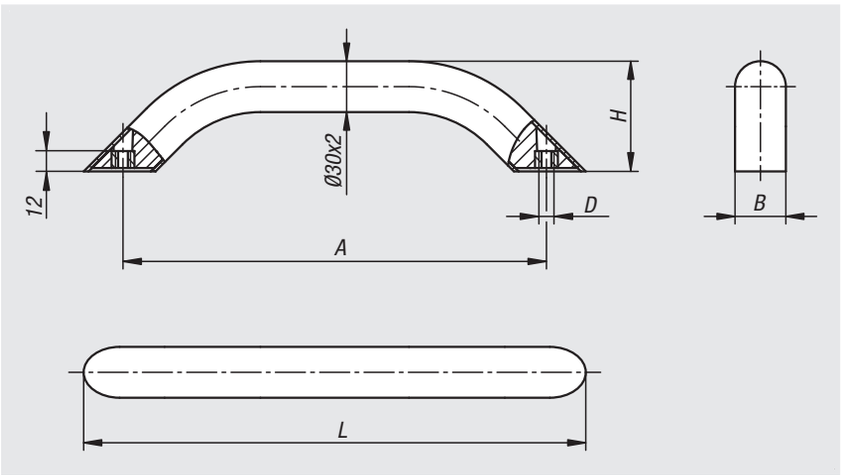
Order No. aluminium ground and anodised	Order No. aluminium serrated plastic sleeve	Order No. stainless steel	A	B	B1	D	H	L	Load capacity N
06938-2501	**06938-2502**	**06938-2503**	250	44	30X1,5	M10x45	80	294	1000
06938-3001	**06938-3002**	**06938-3003**	300	44	30X1,5	M10x45	80	344	1000
06938-3501	**06938-3502**	**06938-3503**	350	44	30X1,5	M10x45	80	394	1000
06938-4001	**06938-4002**	**06938-4003**	400	44	30X1,5	M10x45	80	444	1000
06938-5001	**06938-5002**	**06938-5003**	500	44	30X1,5	M10x45	80	544	1000
06938-6001	**06938-6002**	**06938-6003**	600	44	30X1,5	M10x45	80	644	1000

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Tubular handles round,

aluminium





The machine grip impresses with a combination of solid appearance, high stability and extreme lightness. The patented fastening system enables the handles to be installed from the rear with no screws visible from the front. With its easy-to-clean and abrasion-resistant surface, the handle also blends in perfectly with its surroundings.

Material:
Round tube aluminum EN AW-6060.
steel tapped bushing.

Version:
Anodised natural tone or powder-coated black, ruby red RAL 3003 or traffic red RAL 3020.

Sample order:
nlm 06938-01-300083

Note:
Mounting materials are not included with delivery!! For secure and long-term stability, socket head screws with LONG-LOK thread lock are recommended.

Assembly:
The machine handle can be mounted from the rear. DIN socket head screws or hexagon head bolts with thread size M8 are provided for this purpose.

Advantages:
Solid appearance combined with low weight

Timeless elegant design.
Ergonomic handle shape.
Patented fastening system for rear mounting.

Accessories:
07160 socket head screws, DIN 912 / DIN EN ISO 4762
LONG-LOK thread lock
07160 socket head screws, DIN 912 / DIN EN ISO 4762
07171 hexagon head bolts DIN 933 / DIN-EN-ISO 4017

Tubular handles round, aluminium

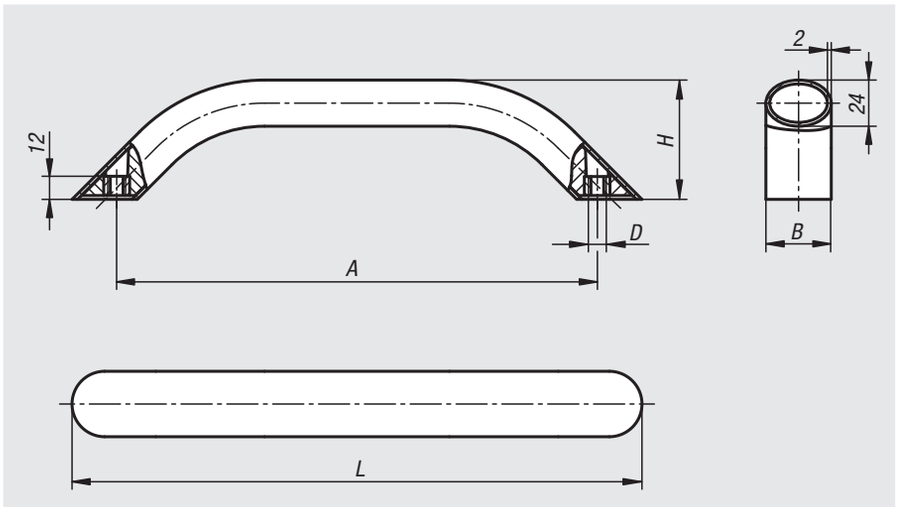
Order No. natural anodised	Order No. black powder-coated	Order No. ruby red powder-coated	Order No. red RAL 3020 powder-coated	A	B	D	H	L	Load capacity N
06938-01-250083	06938-01-250081	06938-01-2500827	06938-01-2500884	250	30	M8	65	296,4	1000
06938-01-300083	06938-01-300081	06938-01-3000827	06938-01-3000884	300	30	M8	65	346,4	1000
06938-01-400083	06938-01-400081	06938-01-4000827	06938-01-4000884	400	30	M8	65	446,4	1000
06938-01-500083	06938-01-500081	06938-01-5000827	06938-01-5000884	500	30	M8	65	546,4	1000

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Tubular handles oval,

aluminium





The machine grip impresses with a combination of solid appearance, high stability and extreme lightness. The patented fastening system enables the handles to be installed from the rear with no screws visible from the front. With its easy-to-clean and abrasion-resistant surface, the handle also blends in perfectly with its surroundings.

Material:
Oval tube aluminium EN AW-6060.
Tapped bushes steel.

Version:
Anodised natural tone or powder-coated black, ruby red RAL 3003 or traffic red RAL 3020.

Sample order:
nlm 06838-02-400083

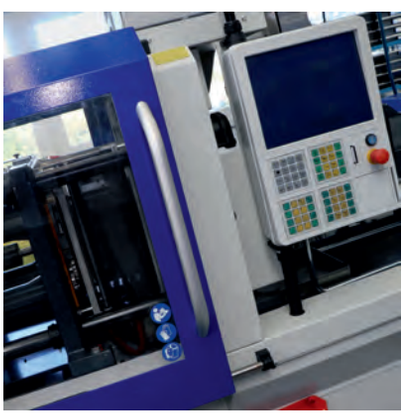
Note:
Mounting materials are not included with delivery!! For secure and long-term stability, socket head screws with LONG-LOK thread lock are recommended.

Assembly:
The machine handle can be mounted from the rear. DIN socket head screws or hexagon head bolts with thread size M8 are provided for this purpose.

Advantages:
Solid appearance combined with low weight

Timeless elegant design.
Ergonomic handle shape.
Patented fastening system for rear mounting.

Accessories:
07160 socket head screws, DIN 912 / DIN EN ISO 4762
LONG-LOK thread lock
07160 socket head screws, DIN 912 / DIN EN ISO 4762
07171 hexagon head bolts DIN 933 / DIN-EN-ISO 4017



Tubular handles oval, aluminium

Order No. natural anodised	Order No. black powder-coated	Order No. ruby red powder-coated	Order No. red RAL 3020 powder-coated	A	B	D	H	L	Load capacity N
06938-02-250083	06938-02-250081	06938-02-2500827	06938-02-2500884	250	34	M8	62	296,4	1000
06938-02-300083	06938-02-300081	06938-02-3000827	06938-02-3000884	300	34	M8	62	346,4	1000
06938-02-400083	06938-02-400081	06938-02-4000827	06938-02-4000884	400	34	M8	62	446,4	1000
06938-02-500083	06938-02-500081	06938-02-5000827	06938-02-5000884	500	34	M8	62	546,4	1000

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Pull handles tubular



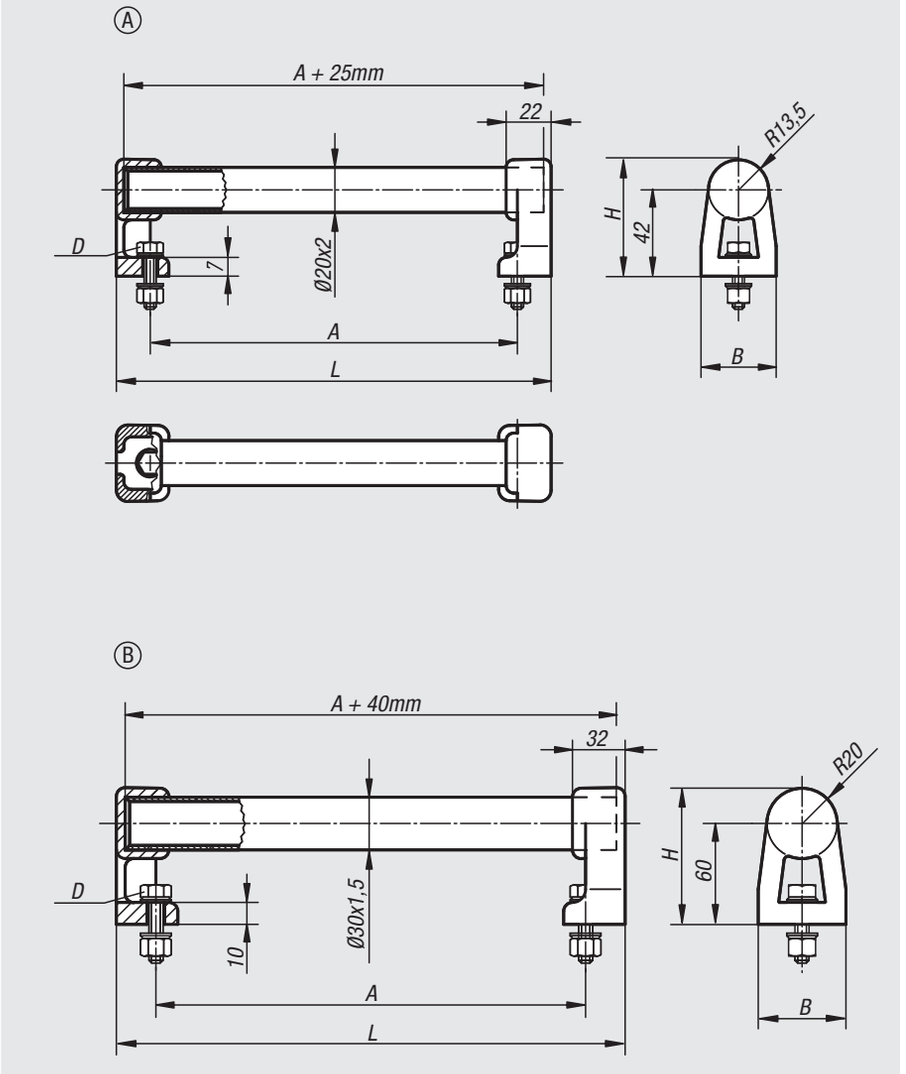
Material:
Grip aluminium EN AW-6060.
Legs glass-bead reinforced polyamide.

Version:
Grip natural colour anodised or with black serrated plastic cover.

Sample order:
nlm 06939-150203

Note:
The legs have 2 or 4 PVC profile pins in the hole for the grip tube. When pushing the tube in these are trimmed off and produce a precise seating.
Black electro zinc-plated fastening screws, suitable washers and nuts are supplied.

Assembly:
From the front.

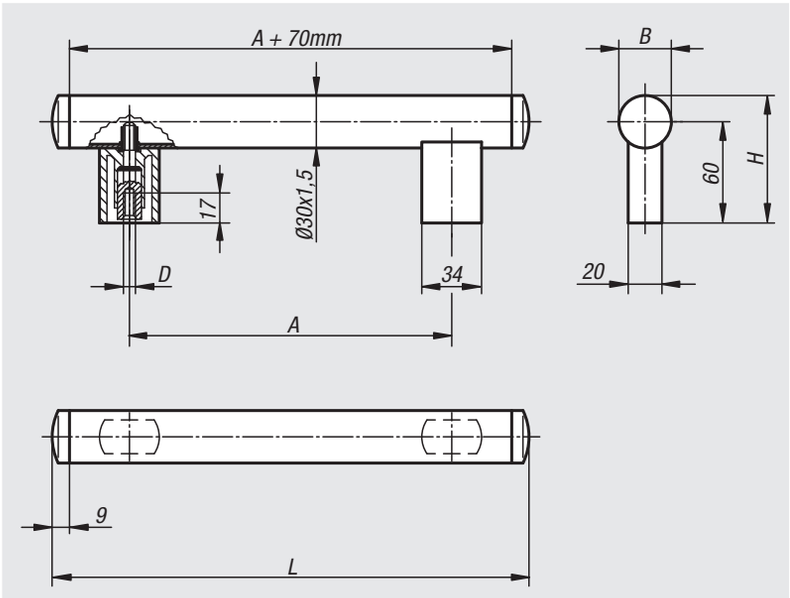


Order No. natural	Order No. black	Form	A	B	D	H	L	Load capacity N
06939-150203	06939-150202	A	150	32	M5x20	55,5	184	1000
06939-200203	06939-200202	A	200	32	M5x20	55,5	234	1000
06939-300203	06939-300202	A	300	32	M5x20	55,5	334	1000
06939-400203	06939-400202	A	400	32	M5x20	55,5	434	1000
06939-500203	06939-500202	A	500	32	M5x20	55,5	534	1000
06939-150303	06939-150302	B	150	48	M8x25	80	200	1000
06939-300303	06939-300302	B	300	48	M8x25	80	350	1000
06939-400303	06939-400302	B	400	48	M8x25	80	450	1000
06939-200303	06939-200302	B	200	48	M8x25	80	250	1000
06939-500303	06939-500302	B	500	48	M8x25	80	550	1000

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Pull handles tubular





Material:
Legs and tube cap glass-bead reinforced polyamide.
Grip aluminium EN AW-6060.

Version:
Grip finely ground and anodised black or natural tone.
Legs and tube cap semi-matt with fine texture, black.

Sample order:
nlm 06940-200061

Note:
The legs and tube are fastened together with pull-out resistant rivet nuts.

Assembly:
From the rear.

Order No.	Main colour	A	B	D	H	L	Load capacity N
06940-200061	black anodised	200	30	M6	75	288	800
06940-250061	black anodised	250	30	M6	75	338	800
06940-300061	black anodised	300	30	M6	75	388	800
06940-400061	black anodised	400	30	M6	75	488	800
06940-500061	black anodised	500	30	M6	75	588	800
06940-200063	natural anodised	200	30	M6	75	288	800
06940-250063	natural anodised	250	30	M6	75	338	800
06940-300063	natural anodised	300	30	M6	75	388	800
06940-400063	natural anodised	400	30	M6	75	488	800
06940-500063	natural anodised	500	30	M6	75	588	800

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Pull handles tubular

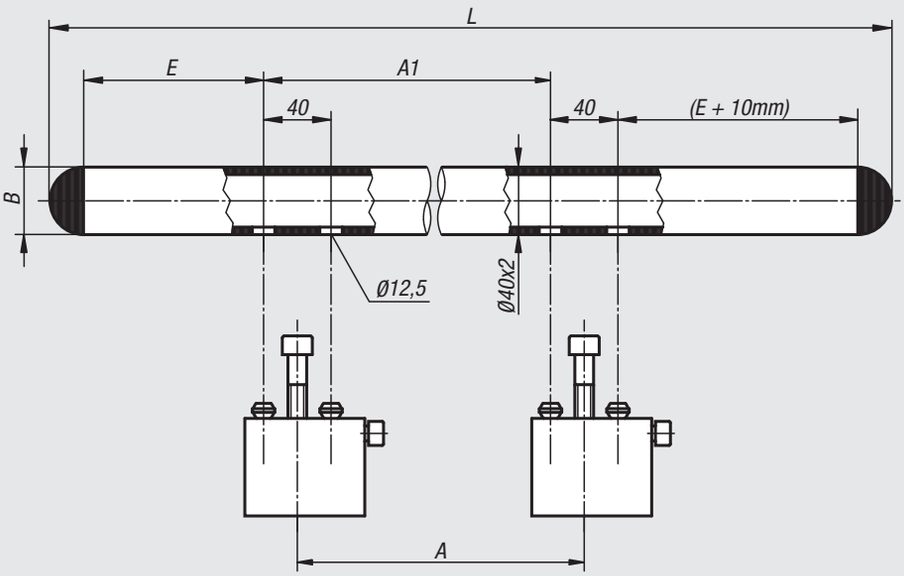


Material:
Grip stainless steel 1.4301.
Legs die-cast aluminium.
End caps glass-bead reinforced plastic.
Screws and locking pins steel.

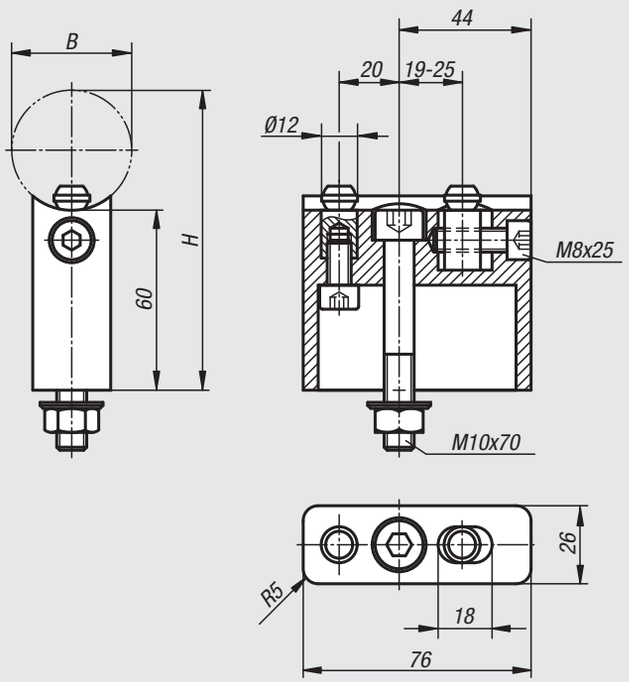
Version:
Grip finely ground.
Legs black powder-coated.
End cap black.
Screws and pins trivalent passivated.

Sample order:
nlm 06941-0600101

Note:
Heavy duty tubular pull handles for machine and plant construction. Easy mounting from the front. Adjustable leg spacing by the same grip length.



Leg locking diagram:



Order No.	A	A1	B	E	H	L	Load capacity N
06941-0600101	380	380	40	85	100	640	1000
06941-0700101	480	480	40	85	100	740	1000
06941-0800101	500	500	40	125	100	840	1000
06941-0900101	600	600	40	125	100	940	1000
06941-1000101	700	700	40	125	100	1040	1000

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Pull handles tubular



Material:
Legs glass-bead reinforced thermoplastic.
Grip stainless steel 1.4301.
Inserts stainless steel 1.4305.

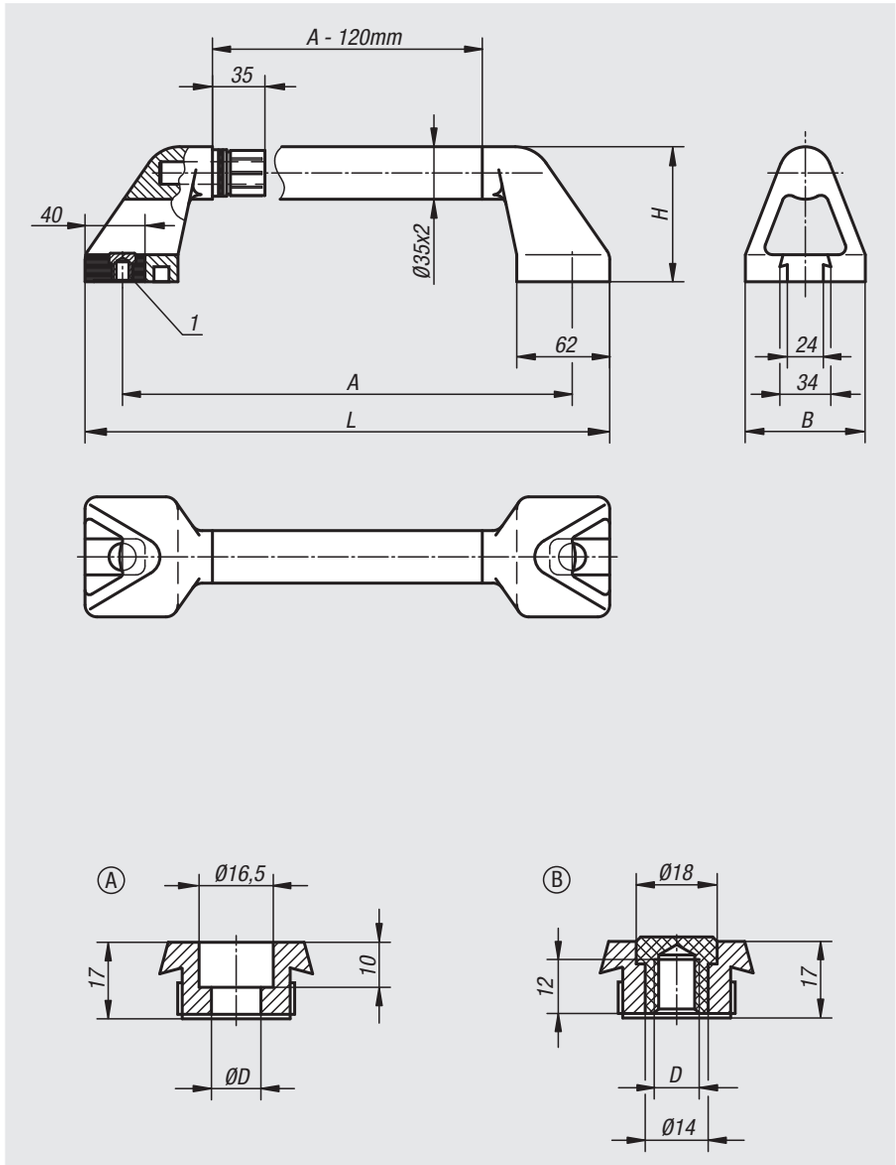
Version:
Legs fine structured, black.
Grip fine ground.
Inserts fine turned.

Sample order:
nlm 06942-300101

Note:
Locking webs allow a precision fit of the tube on the plastic leg boss.
Splash-proof with O-ring seals.
Different fastening inserts allow mounting from the front, rear or with each other.
Handles with through hole inserts (Form A) are supplied with stainless steel fasteners.
Handles with tapped inserts (Form B) are supplied without fasteners.

Drawing reference:
Form A: screw head insert
Form B: threaded insert

1) Screw head insert (A) or threaded insert (B).

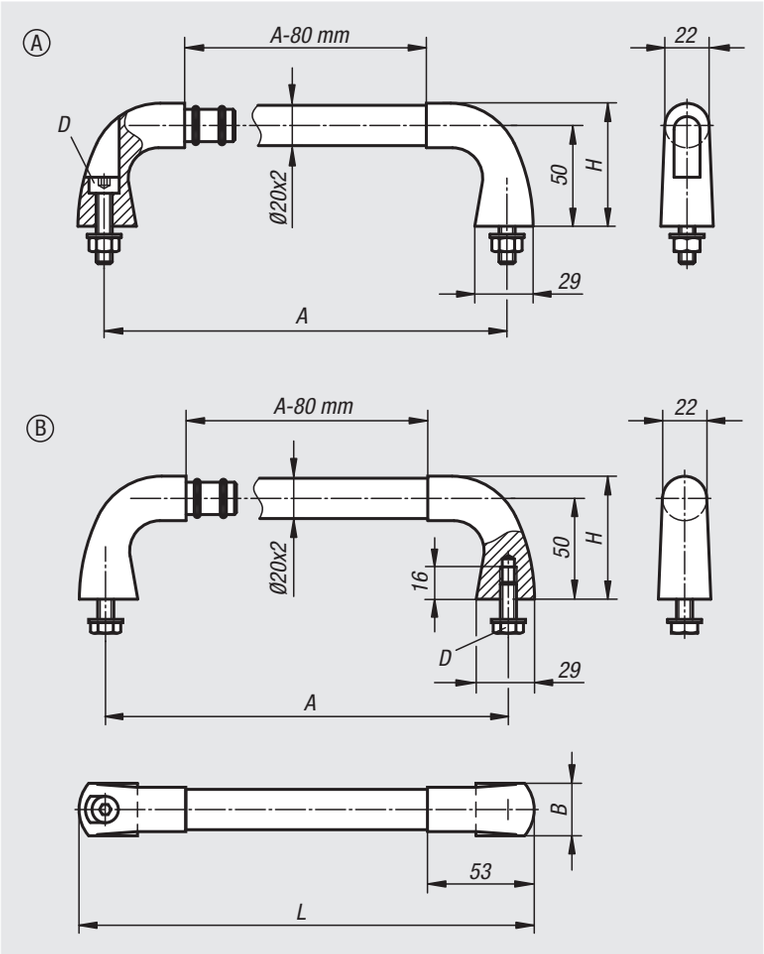


Order No.	Form	A	B	D	H	L	Load capacity N
06942-300101	A	300	80	11	90	350	1000
06942-350101	A	350	80	11	90	400	1000
06942-400101	A	400	80	11	90	450	1000
06942-500101	A	500	80	11	90	550	1000
06942-600101	A	600	80	11	90	650	1000
06942-300102	B	300	80	M10	90	350	1000
06942-350102	B	350	80	M10	90	400	1000
06942-400102	B	400	80	M10	90	450	1000
06942-500102	B	500	80	M10	90	550	1000
06942-600102	B	600	80	M10	90	650	1000

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Pull handles tubular stainless steel





Material:
Grip and fasteners 1.4301 stainless steel.
Legs investment cast 1.4581 stainless steel.

Version:
Grip finely ground or with ribbed black plastic sleeve.
Legs abrasive cleaned and matt-gloss electropolished.

Sample order:
nlm 06943-200081

Note:
Cap screws with nuts and washers are supplied for Form A handles.
Hexagon head screws and washers are supplied for Form B handles.

Assembly:
Form A from the front.
Form B from the rear.

Order No.	Form	Main colour	A	B	D	H	L	Load capacity N
06943-200081	A	ground	200	26	M8x35	60	226	1000
06943-300081	A	ground	300	26	M8x35	60	326	1000
06943-400081	A	ground	400	26	M8x35	60	426	1000
06943-200082	A	black plastic ribbed	200	26	M8x35	60	226	1000
06943-300082	A	black plastic ribbed	300	26	M8x35	60	326	1000
06943-400082	A	black plastic ribbed	400	26	M8x35	60	426	1000
06943-200083	B	ground	200	26	M8x20	60	226	1000
06943-300083	B	ground	300	26	M8x20	60	326	1000
06943-400083	B	ground	400	26	M8x20	60	426	1000
06943-200084	B	black plastic ribbed	200	26	M8x20	60	226	1000
06943-300084	B	black plastic ribbed	300	26	M8x20	60	326	1000
06943-400084	B	black plastic ribbed	400	26	M8x20	60	426	1000

06944

Pull handles



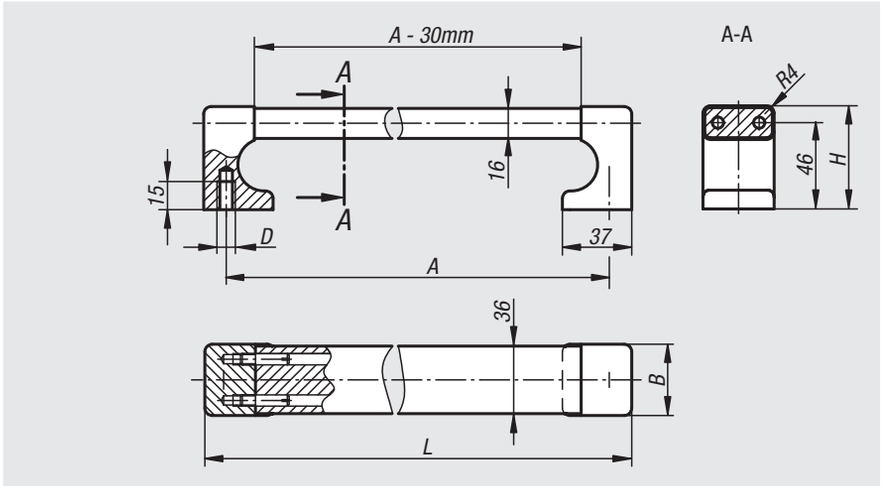
Material:
Legs and grip aluminium EN AW-6060.
Connecting pins stainless steel.

Version:
Legs and grip finely ground, anodised black or natural tone.

Sample order:
nlm 06944-250081

Note:
The solid construction permits this handle series to also be used as edge protectors.

Assembly:
From the rear.



Order No. black anodised	Order No. natural anodised	A	B	D	H	L	Load capacity N
06944-250081	**06944-250083**	250	38	M8	55	274	1000
06944-300081	**06944-300083**	300	38	M8	55	324	1000
06944-400081	**06944-400083**	400	38	M8	55	424	1000
06944-500081	**06944-500083**	500	38	M8	55	524	1000
06944-600081	**06944-600083**	600	38	M8	55	624	1000

06945

Pull handles angled



Material:
Round aluminium EN AW-6060

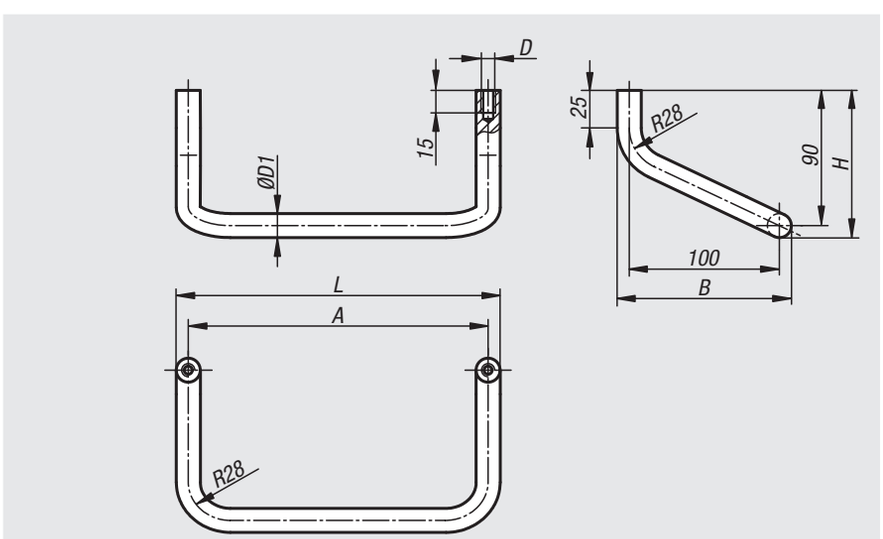
Version:
Ground, glass blasted and matt-gloss black anodised.

Sample order:
nlm 06945-20016

Note:
End washers not included.

Assembly:
From the rear.

On request:
Any handle length.



Order No.	A	B	D	D1	H	L	Load capacity N	Order No. end washer
06945-20016	200	116	M8	16	98	216	1000	06945-16
06945-25016	250	116	M8	16	98	266	1000	06945-16
06945-30016	300	116	M8	16	98	316	1000	06945-16
06945-40016	400	116	M8	16	98	416	1000	06945-16
06945-50018	500	118	M8	18	99	518	1000	06945-18

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Pull handles



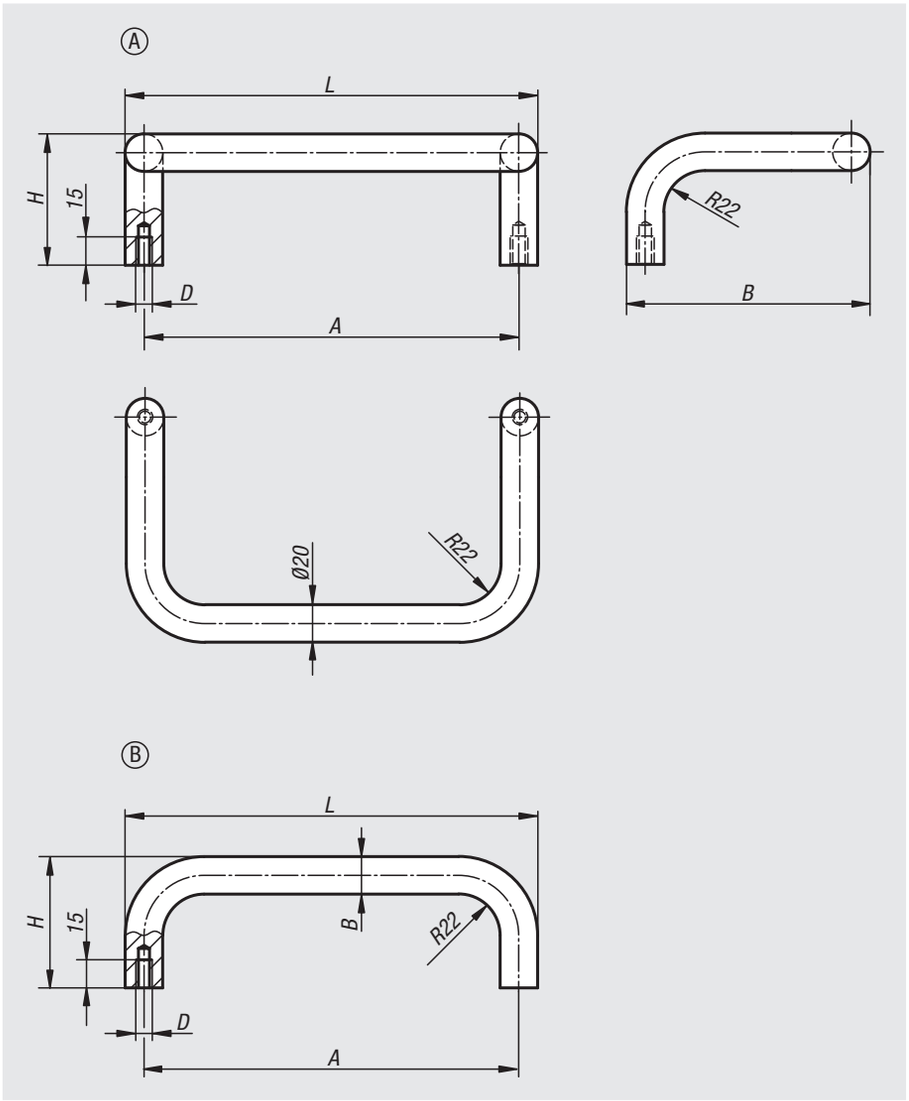
Material:
Round steel

Version:
Ground, brushed and matt-chromed or black powder-coated with fine texture

Sample order:
nlm 06946-200081

Note:
Available as straight or right-angled handle.

Assembly:
From the rear.



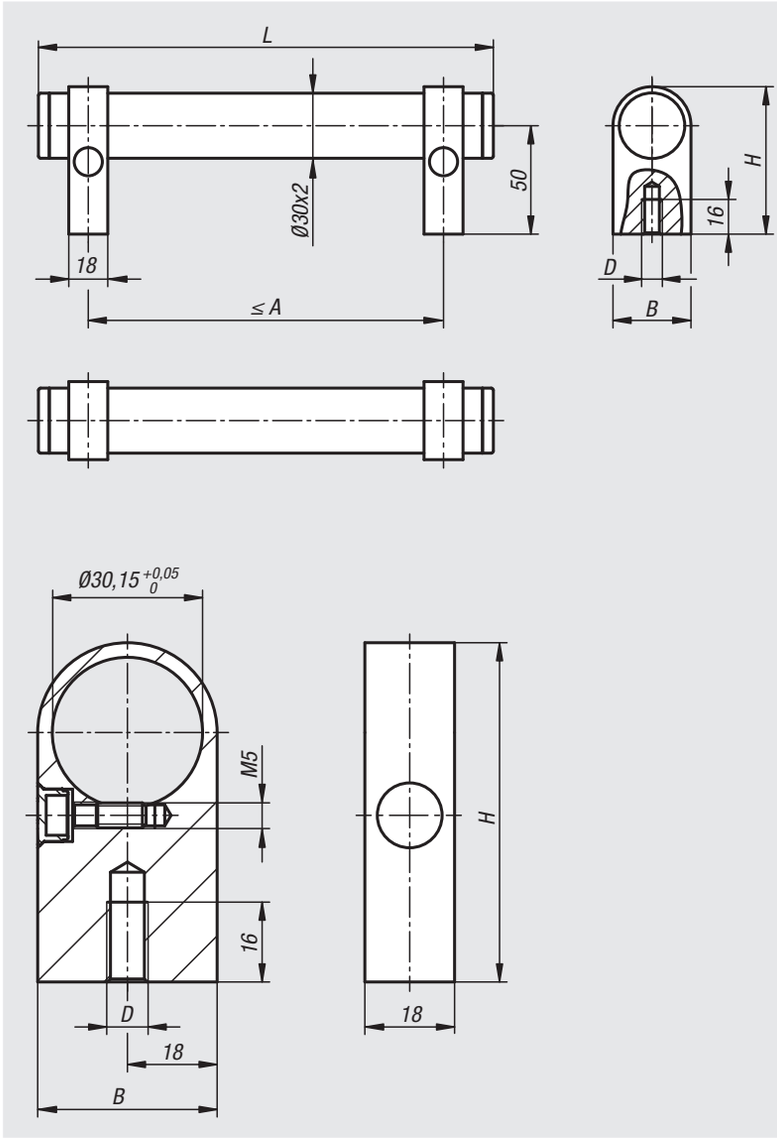
Order No.	Form	Main colour	A	B	D	H	L	Load capacity N
06946-200081	A	matt chromed	200	130	M8	70	220	1000
06946-350081	A	matt chromed	350	130	M8	70	370	1000
06946-200082	A	black powder-coated	200	130	M8	70	220	1000
06946-350082	A	black powder-coated	350	130	M8	70	370	1000
06946-200083	B	matt chromed	200	20	M8	70	220	1000
06946-250083	B	matt chromed	250	20	M8	70	270	1000
06946-300083	B	matt chromed	300	20	M8	70	320	1000
06946-350083	B	matt chromed	350	20	M8	70	370	1000
06946-200084	B	black powder-coated	200	20	M8	70	220	1000
06946-250084	B	black powder-coated	250	20	M8	70	270	1000
06946-300084	B	black powder-coated	300	20	M8	70	320	1000
06946-350084	B	black powder-coated	350	20	M8	70	370	1000

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Pull handles tubular

adjustable





Material:
Grip tube EN AW-6060.
Mounting bracket EN AW-6063.
End caps thermoplastic.
Grub screw ISO 4766-14H.

Version:
Grip tube anodised natural tone.
Mounting brackets anodised natural tone or black.
Grip end piece, black.
Bracket end cap light grey or black.

Sample order:
nlm 06947-2503011

Note:
The adjustable tubular handles are supplied unassembled.
The centre distance for the tubular handles can be freely determined.
The recommended maximum centre distance can be found in the table under A max.
Additional mounting brackets can be included for long handle lengths or high loads.
The mounting brackets are supplied unassembled.

Tubular handles adjustable

Order No.	Main colour	Component colour	A max.	B	D	H	L	Load capacity N
06947-2503011	natural anodised	natural anodised	220	36	M8	68	250	1000
06947-3003011	natural anodised	natural anodised	270	36	M8	68	300	1000
06947-4003011	natural anodised	natural anodised	370	36	M8	68	400	1000
06947-5003011	natural anodised	natural anodised	470	36	M8	68	500	1000
06947-6003011	natural anodised	natural anodised	570	36	M8	68	600	1000
06947-2503012	natural anodised	black anodised	220	36	M8	68	250	1000
06947-3003012	natural anodised	black anodised	270	36	M8	68	300	1000
06947-4003012	natural anodised	black anodised	370	36	M8	68	400	1000
06947-5003012	natural anodised	black anodised	470	36	M8	68	500	1000
06947-6003012	natural anodised	black anodised	570	36	M8	68	600	1000

Mounting brackets

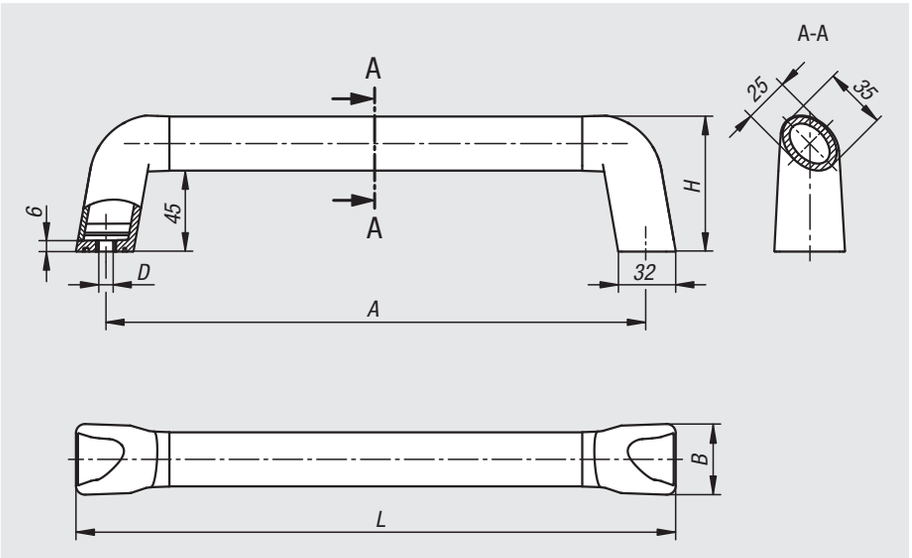
Order No.	Main colour	B	D	H
06947-08301	natural anodised	36	M8	68
06947-08302	black anodised	36	M8	68

Notes

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Tubular handles “Bighand”





The newly designed Bighand tubular handle with its ergonomic oval shape and selected tube size provides a secure and comfortable grip. Its timeless elegant design makes it attractive and the variable colour scheme means it can be optimally adapted to its surroundings.

Material:
Oval tube aluminium.
End piece thermoplastic polyamide.
End cap thermoplastic polyamide.
Adapter bush stainless steel.

Version:
Oval tube black grey powder-coated (glossy), black anodised (matt) or natural tone anodised (matt).
End piece black grey RAL 7021.
End cap black grey RAL7021, pure orange RAL 2004, rape yellow RAL 1021, traffic red RAL 3020, signal green RAL 6032 or traffic blue RAL 5017.

Sample order:
nlm 06948-01-18084 (cap colour traffic red.)

Note for ordering:
Δ Enter the required colour code here.

Note:
Fastening materials are not provided.
Cap screws with LONG-LOK thread lock are recommended for a secure and permanent hold.

Temperature range:
Permanent temperature max. 100 °C.
Short time use up to 180 °C.

Assembly:
The end pieces are designed so that the tubular handle can be fastened either from the front or rear. DIN M8 cap screws or hex head screws are provided for this purpose. After mounting, the end caps can be pressed in by hand. Slots are provided on both sides of the end caps so that they can be removed with a screwdriver without damaging them.

On request:
Special lengths “A”.

Accessories:
07160 DIN 912 / DIN EN ISO 4762 cap screws, LONG-LOK thread lock
07160 DIN 912 / DIN EN ISO 4762 cap screws
07171 DIN 933 / DIN-EN-ISO 4017 hex head screws
07210 DIN 934 / DIN EN ISO 4032 / DIN EN 24032 hex nuts
07300 DIN 125 / DIN EN ISO 7089 Form A washers

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colour codes:



black Grey
Δ = 1
RAL 7021



Pure orange
Δ = 2
RAL 2004



colza yellow
Δ = 16
RAL 1021



tra†c red
Δ = 84
RAL 3020



signal green
Δ = 86
RAL 6032



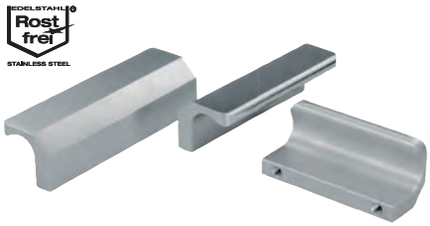
tra†c blue
Δ = 87
RAL 5017

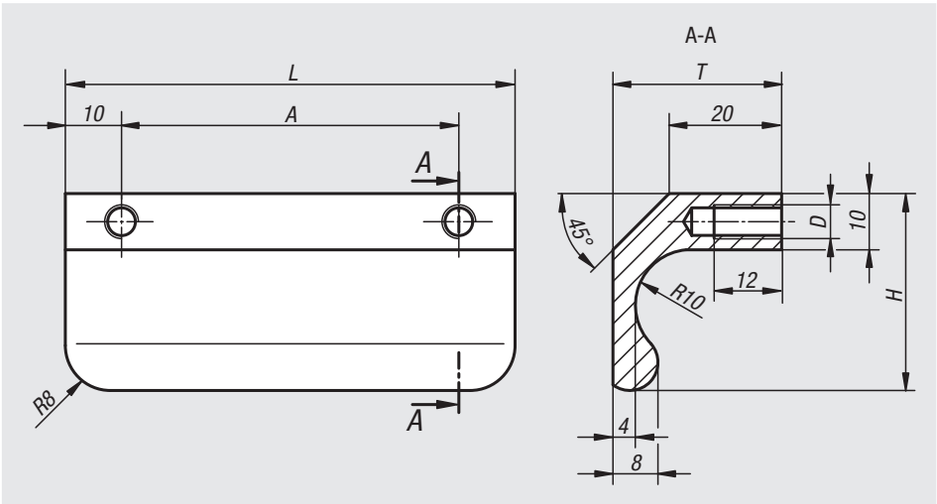


Order No. black grey	Order No. black	Order No. natural	A	B	D	H	L	Load capacity N
06948-01-180Δ	06948-01-18001Δ	06948-01-18003Δ	180	39,2	8	75,5	213,4	1000
06948-01-200Δ	06948-01-20001Δ	06948-01-20003Δ	200	39,2	8	75,5	233,4	1000
06948-01-250Δ	06948-01-25001Δ	06948-01-25003Δ	250	39,2	8	75,5	283,4	1000
06948-01-300Δ	06948-01-30001Δ	06948-01-30003Δ	300	39,2	8	75,5	333,4	1000
06948-01-350Δ	06948-01-35001Δ	06948-01-35003Δ	350	39,2	8	75,5	383,4	1000
06948-01-400Δ	06948-01-40001Δ	06948-01-40003Δ	400	39,2	8	75,5	433,4	1000
06948-01-500Δ	06948-01-50001Δ	06948-01-50003Δ	500	39,2	8	75,5	533,4	1000
06948-01-600Δ	06948-01-60001Δ	06948-01-60003Δ	600	39,2	8	75,5	633,4	1000

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Ledge handles stainless steel





Material:
Profile stainless steel 1.4404.

Version:
Abrasive cleaned and matt-gloss electropolished.

Sample order:
nlm 06951-06006

Assembly:
From the rear.

On request:
Any other lengths.

Order No.	A	D	H	L	T	Load capacity N
06951-06006	60	M6	35	80	30	1000
06951-08006	80	M6	35	100	30	1000
06951-10006	100	M6	35	120	30	1000
06951-13006	130	M6	35	150	30	1000

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Ledge handles



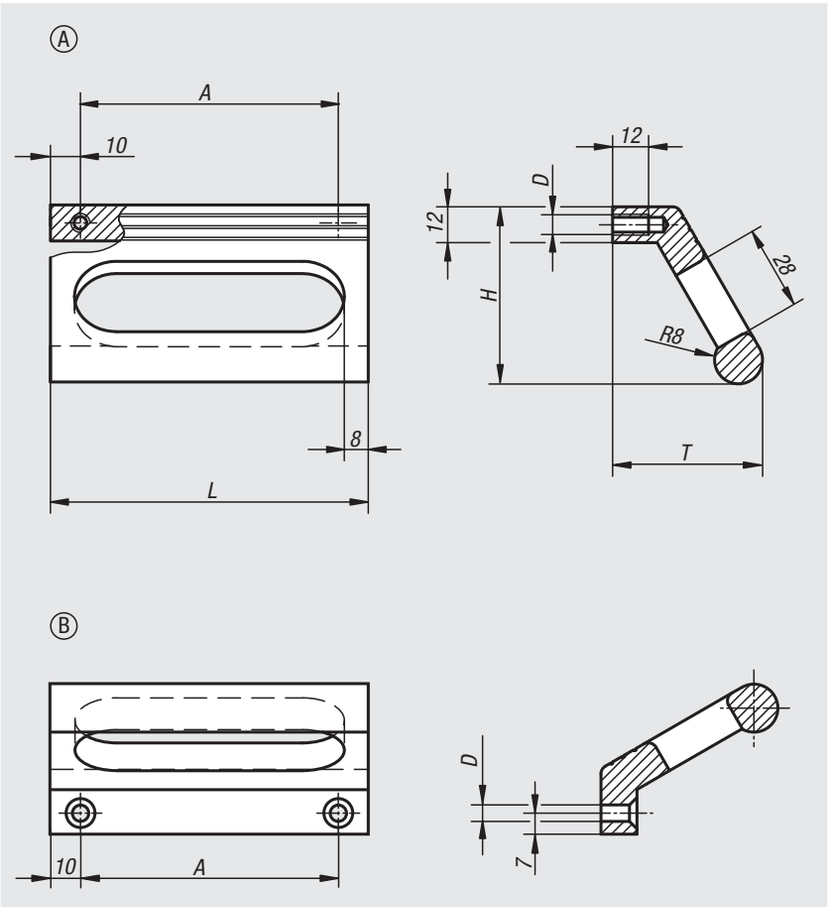
Material:
Profile aluminium EN AW-6060

Version:
Matt-gloss anodised.

Sample order:
nlm 06952-086061

Note:
These ledge handles are available with M6 internal thread or with through hole for M5 countersunk screws for front mounting.

Assembly:
Form A from the rear.
Form B from the front.

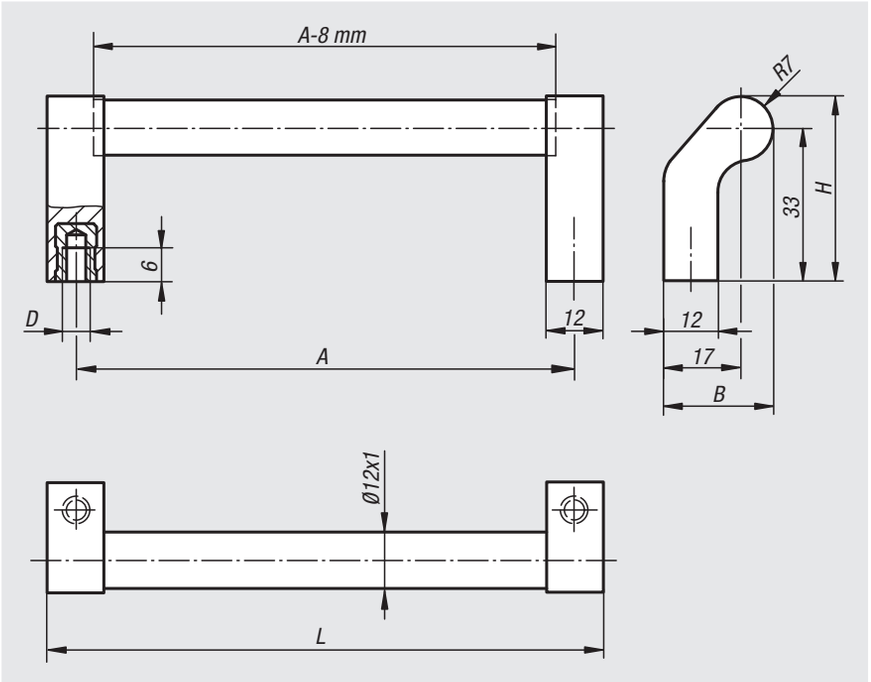


Order No.	Form	Main colour	A	D	H	L	T	Load capacity N
06952-086061	A	black anodised	86	M6	59	106	50	500
06952-100061	A	black anodised	100	M6	59	120	50	500
06952-120061	A	black anodised	120	M6	59	140	50	500
06952-086063	A	natural anodised	86	M6	59	106	50	500
06952-100063	A	natural anodised	100	M6	59	120	50	500
06952-120063	A	natural anodised	120	M6	59	140	50	500
06952-086051	B	black anodised	86	5,5	59	106	50	500
06952-100051	B	black anodised	100	5,5	59	120	50	500
06952-120051	B	black anodised	120	5,5	59	140	50	500
06952-086053	B	natural anodised	86	5,5	59	106	50	500
06952-100053	B	natural anodised	100	5,5	59	120	50	500
06952-120053	B	natural anodised	120	5,5	59	140	50	500

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Tubular handles angled





Material:
Grip aluminium EN AW-6060 or stainless steel 1.4301.
Legs polyamide glass-bead reinforced.
Bushing brass.

Version:
Grip natural colour, black anodised or finely ground stainless steel.
Legs matt black.

Sample order:
nlm 06956-088041

Note:
Clamping webs give a precision fit of tube to legs.

Assembly:
From the rear.

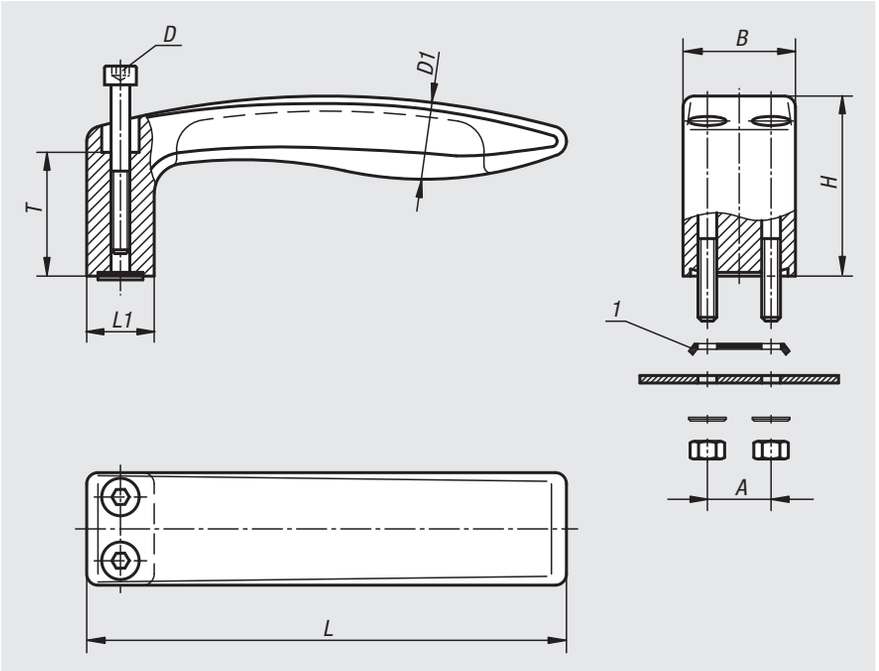
Order No.	Main material	Main colour	A	B	D	H	L	Load capacity N
06956-088041	aluminium	natural anodised	88	24	M4	40	100	200
06956-096041	aluminium	natural anodised	96	24	M4	40	108	200
06956-120041	aluminium	natural anodised	120	24	M4	40	132	200
06956-128041	aluminium	natural anodised	128	24	M4	40	140	200
06956-160041	aluminium	natural anodised	160	24	M4	40	172	200
06956-180041	aluminium	natural anodised	180	24	M4	40	192	200
06956-088042	aluminium	black anodised	88	24	M4	40	100	200
06956-096042	aluminium	black anodised	96	24	M4	40	108	200
06956-120042	aluminium	black anodised	120	24	M4	40	132	200
06956-128042	aluminium	black anodised	128	24	M4	40	140	200
06956-160042	aluminium	black anodised	160	24	M4	40	172	200
06956-180042	aluminium	black anodised	180	24	M4	40	192	200
06956-088043	stainless steel	ground	88	24	M4	40	100	200
06956-096043	stainless steel	ground	96	24	M4	40	108	200
06956-120043	stainless steel	ground	120	24	M4	40	132	200
06956-128043	stainless steel	ground	128	24	M4	40	140	200
06956-160043	stainless steel	ground	160	24	M4	40	172	200
06956-180043	stainless steel	ground	180	24	M4	40	192	200

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Pull handles

open-ended screw on





Material:
Glass-bead reinforced thermoplastic.
Fastening material 1.4301.

Version:
Matt black with fine texture.

Sample order:
nlm 06959-12805

Note:
These open-ended handles can be mounted right or left. They are form stable and have a high load rating. Fastening bolts, nuts and washers are supplied as is a locking plate to prevent twisting.

Assembly:
From the front.

Drawing reference:
1) locking plate

Order No.	A	B	D	D1	H	L	L1	T	Load capacity N
06959-12805	17	30	M5x45	20	48	128	18	33	800
06959-15606	20	36	M6x55	24	58	156	22	40	1000

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Recessed handles



Material:
Grip aluminium profile.
End caps polyamide.
Form A: rubber profile for mounting.
Form B: 2 steel countersunk screws for mounting.

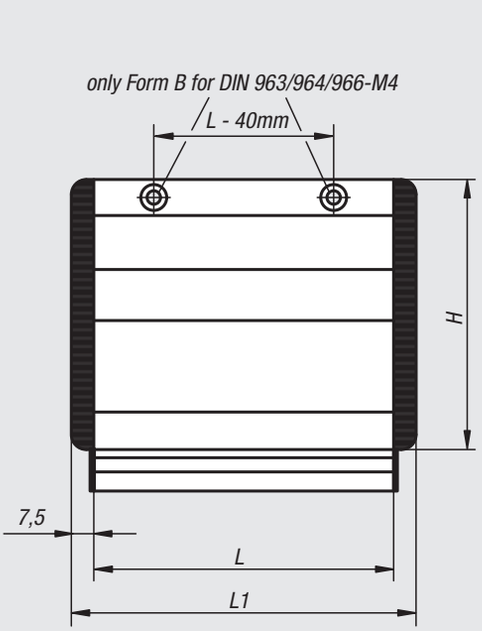
Version:
Handle glass-bead blasted, satin finish and anodised black or natural colour.
Rubber profile black.
Fastening screws electro zinc-plated.

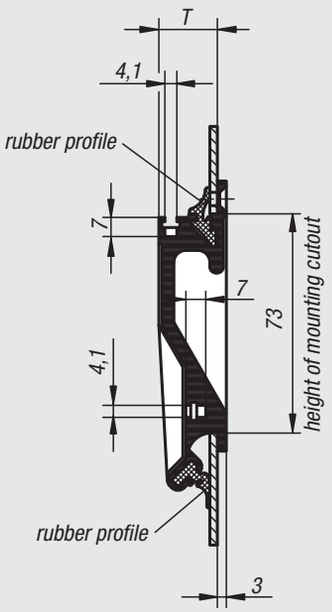
Sample order:
nlm 06960-10011

Note:
The Form A handles can be mounted without screws by material thicknesses of 1 - 2.5 mm. Two rubber profiles ensure an absolutely firm hold.
The Form B handles can be mounted from the front with 2 countersunk screws.

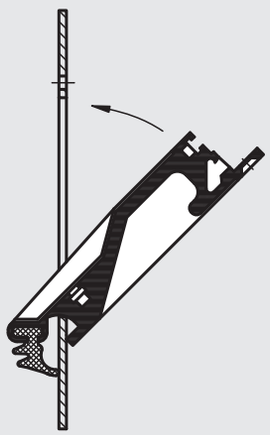
Two cross-slots offset by 90° for M4 screws allow an earthing cable to be connected and can serve as mounting aids for additional parts.

Assembly:
After fitting the lower rubber profile, press the two side caps onto the handle. Next press the handle over the lower edge of the mounting cutout at a 45° angle and then push it up against the housing panel.
Now, depending on which type is being used, push the 2nd rubber profile into the upper groove or fix in place with 2 countersunk screws.

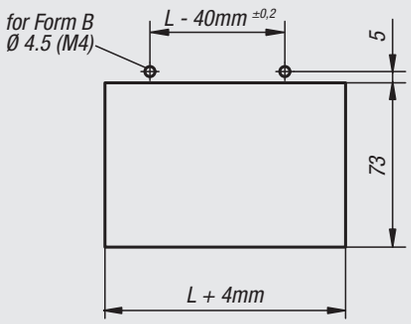




installation



mounting cutout



Order No. black anodised	Order No. natural anodised	Form	Version 2	H	L	L1	T	Mounting cutout	Load capacity N
06960-10011	**06960-10013**	A	plug-in	90	100	115	19,5	104 x 73	500
06960-11811	**06960-11813**	A	plug-in	90	118	133	19,5	122 x 73	500
06960-16711	**06960-16713**	A	plug-in	90	167	182	19,5	171 x 73	500
06960-10021	**06960-10023**	B	screw on	90	100	115	19,5	104 x 73	500
06960-11821	**06960-11823**	B	screw on	90	118	133	19,5	122 x 73	500
06960-16721	**06960-16723**	B	screw on	90	167	182	19,5	171 x 73	500

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Recessed handles fold-down



Material:
Tray and grip aluminium profile.
End caps polyamide.
Form A: Rubber profile for mounting.
Form B: 2 steel countersunk screws for mounting.

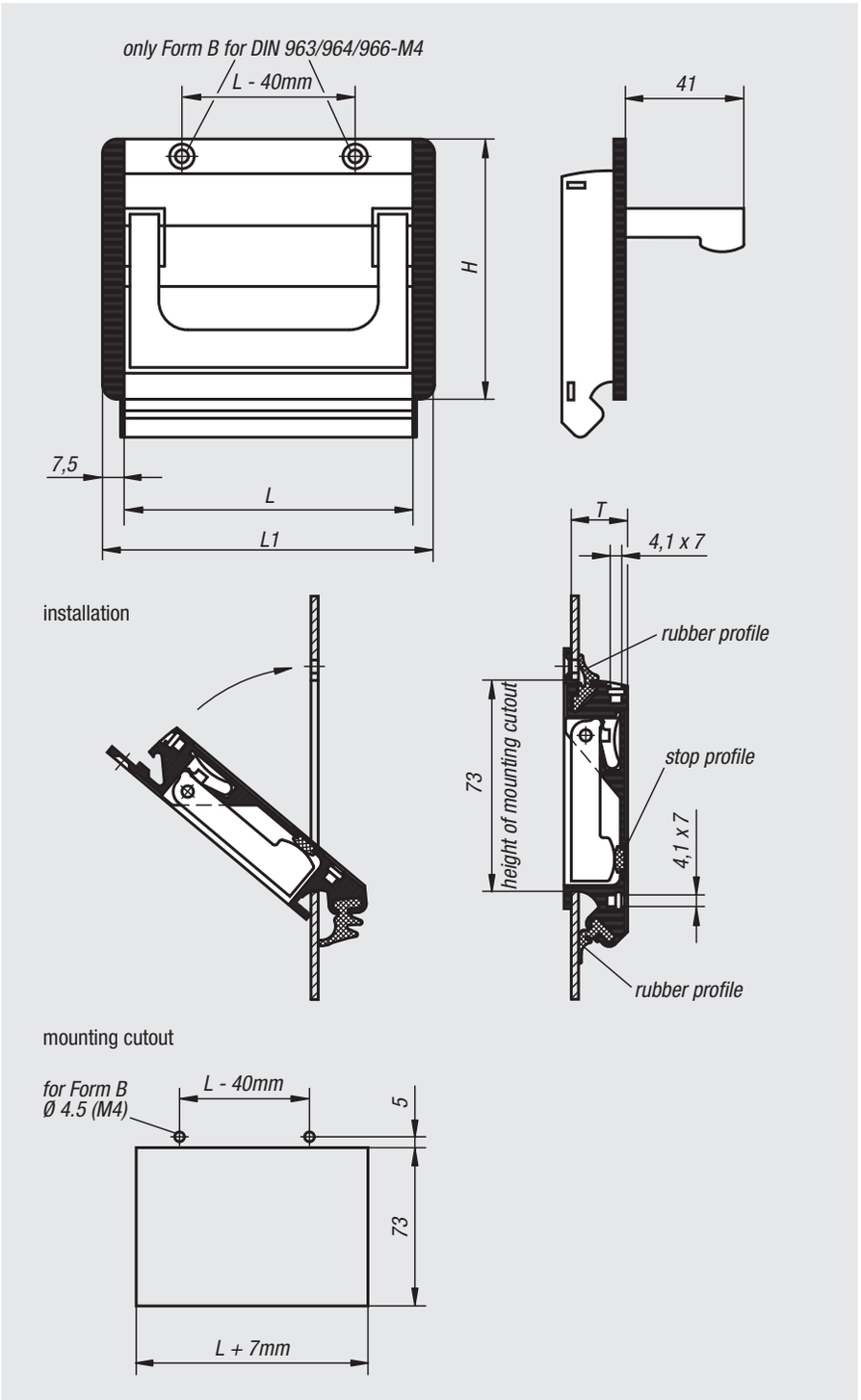
Version:
Tray and grip glass-bead blasted, satin finish and anodised black or natural colour.
Rubber profile black.
Fastening screws electro zinc-plated.

Sample order:
nlm 06961-10011

Note:
Form A handles can be mounted without screws for material thicknesses of 1 - 2.5 mm using 2 rubber profiles.
Form B handles can be mounted from the front with 2 countersunk screws.

Two cross-slots for M4 screws allow earthing connection and can serve as a mounting aid for additional parts.

Assembly:
After fitting the lower rubber profile, press the two side caps onto the handle. Next press the handle over the lower edge of the mounting cutout at a 45° angle and then push it up against the housing panel.
Now push the 2nd rubber profile into the upper groove or fix in place with 2 countersunk screws.



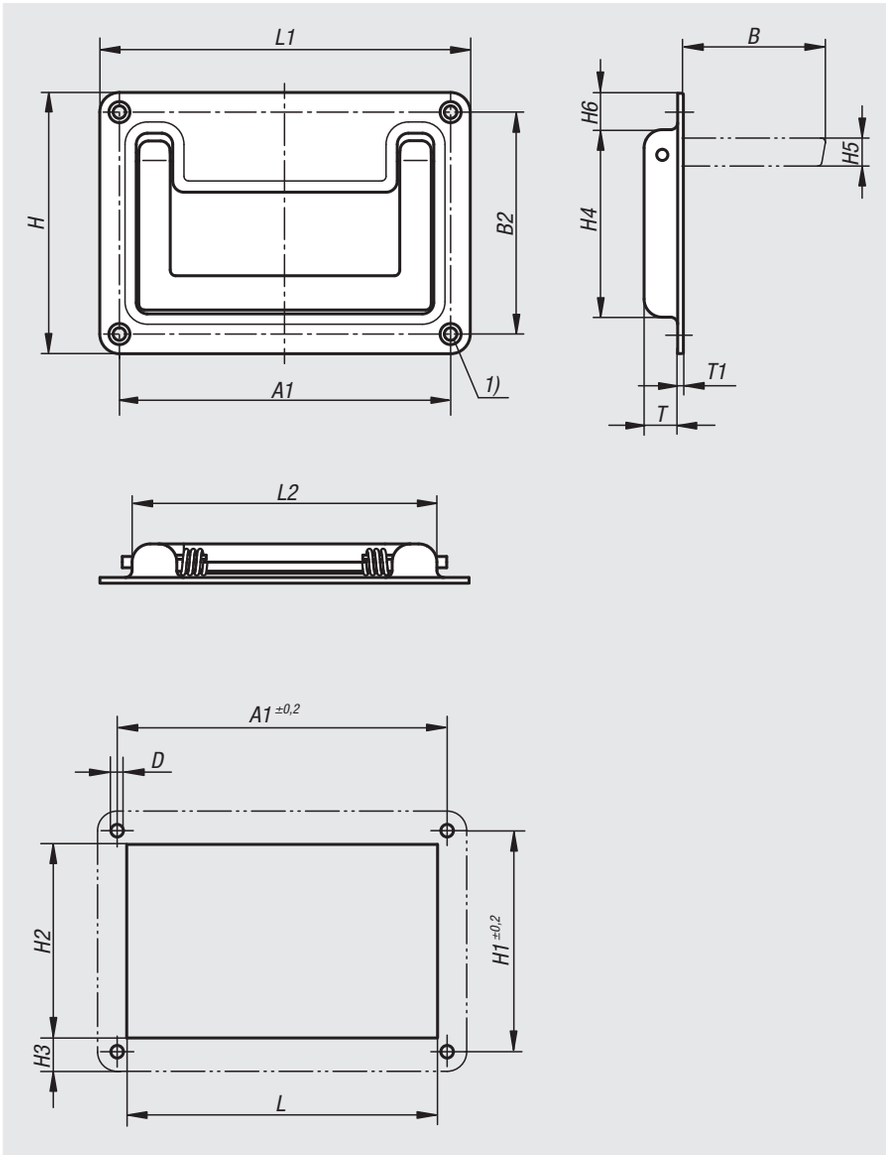
Order No. black anodised	Order No. natural anodised	Form	Version 2	H	L	L1	T	Mounting cutout	Load capacity N
06961-10011	**06961-10013**	A	plug-in	90	100	115	19,5	107 x 73	500
06961-11811	**06961-11813**	A	plug-in	90	118	133	19,5	125 x 73	500
06961-16711	**06961-16713**	A	plug-in	90	167	182	19,5	174 x 73	500
06961-10021	**06961-10023**	B	screw on	90	100	115	19,5	107 x 73	500
06961-11821	**06961-11823**	B	screw on	90	118	133	19,5	125 x 73	500
06961-16721	**06961-16723**	B	screw on	90	167	182	19,5	174 x 73	500

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Recessed handles

fold-down, stainless steel





Material:
Stainless steel 1.4301.

Version:
High-gloss electropolished.

Sample order:
nlm 06961-01-132

Note:
Stainless steel retractable grips with marginal installation depth. For base and mounting plates or drawers. With return spring. The grip automatically swivels back into its resting position after use.

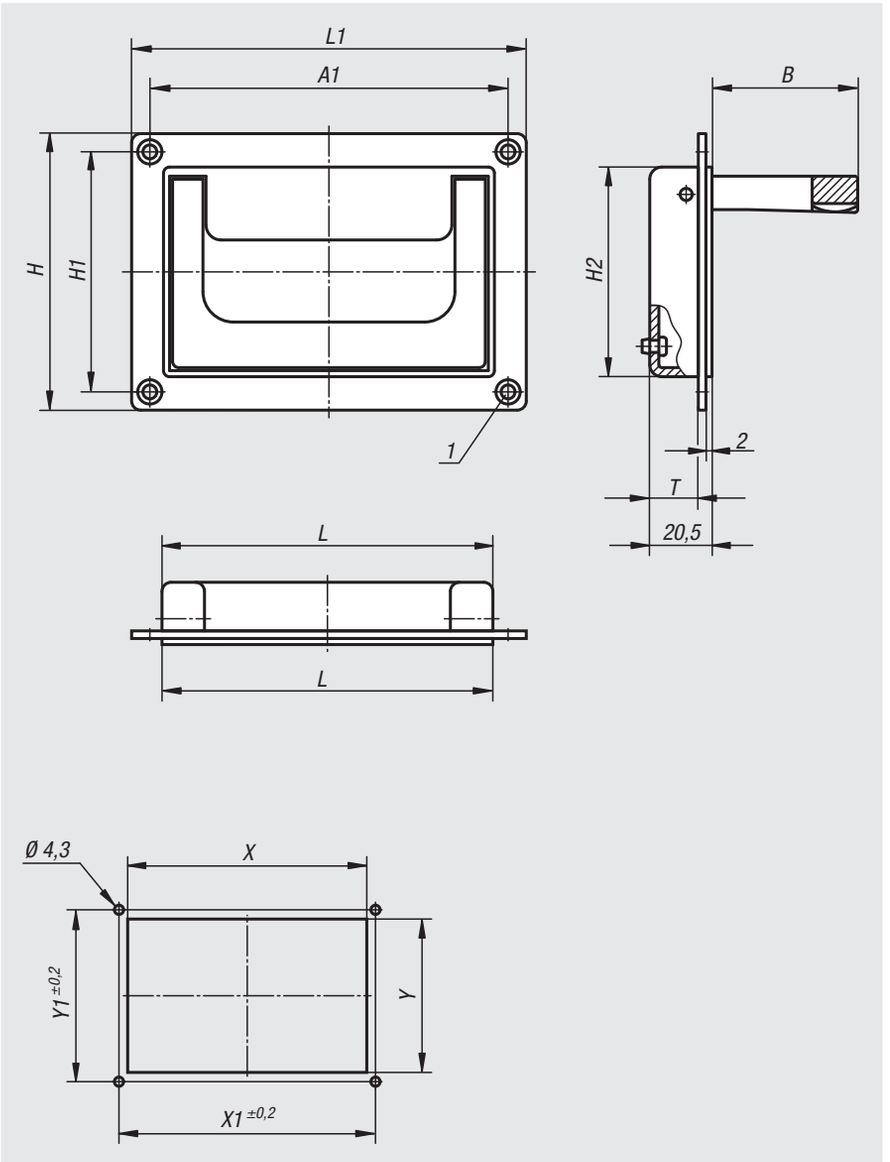
Drawing reference:
1) for countersunk screws M4

Order No.	A1	B	B2	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	T	T1
06961-01-132	118±0,2	51	79	4,5	93	79±0,2	72	10,5	67	10	13	115	132	109	12	1,5

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Recessed handles fold-down





Material:
Die-cast aluminium.

Version:
Tray and handle black or light grey powder-coated, semi-matt.

Sample order:
nlm 06962-05018411

Note:
With their modern design recessed fold-down handles can be used wherever solid and attractive handles are required.
Handles Form A snap into both resting and working positions.
Handles Form B swivel back into the resting position automatically after use.

Assembly:
The handles can be installed from the front or rear of the housing panel with the same housing cutout.

Drawing reference:
1) for countersunk screws M4

Order No.	Form	Main colour	A1	B	H	H1	H2	L	L1	T	X	X1	Y	Y1	Load capacity N
06962-07911811	A	black	118	48	91	79	69	109	130	16	110	118	70,5	79	500
06962-05018411	A	black	184	51	80	50	72	170	200	16	171	184	73	50	500
06962-07911812	A	light grey RAL 7035	118	48	91	79	69	109	130	16	110	118	70,5	79	500
06962-05018412	A	light grey RAL 7035	184	51	80	50	72	170	200	16	171	184	73	50	500
06962-07911821	B	black	118	48	91	79	69	109	130	16	110	118	70,5	79	500
06962-05018421	B	black	184	51	80	50	72	170	200	16	171	184	73	50	500
06962-07911822	B	light grey RAL 7035	118	48	91	79	69	109	130	16	110	118	70,5	79	500
06962-05018422	B	light grey RAL 7035	184	51	80	50	72	170	200	16	171	184	73	50	500

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Recessed handles



Material:
Glass bead reinforced thermoplastic.

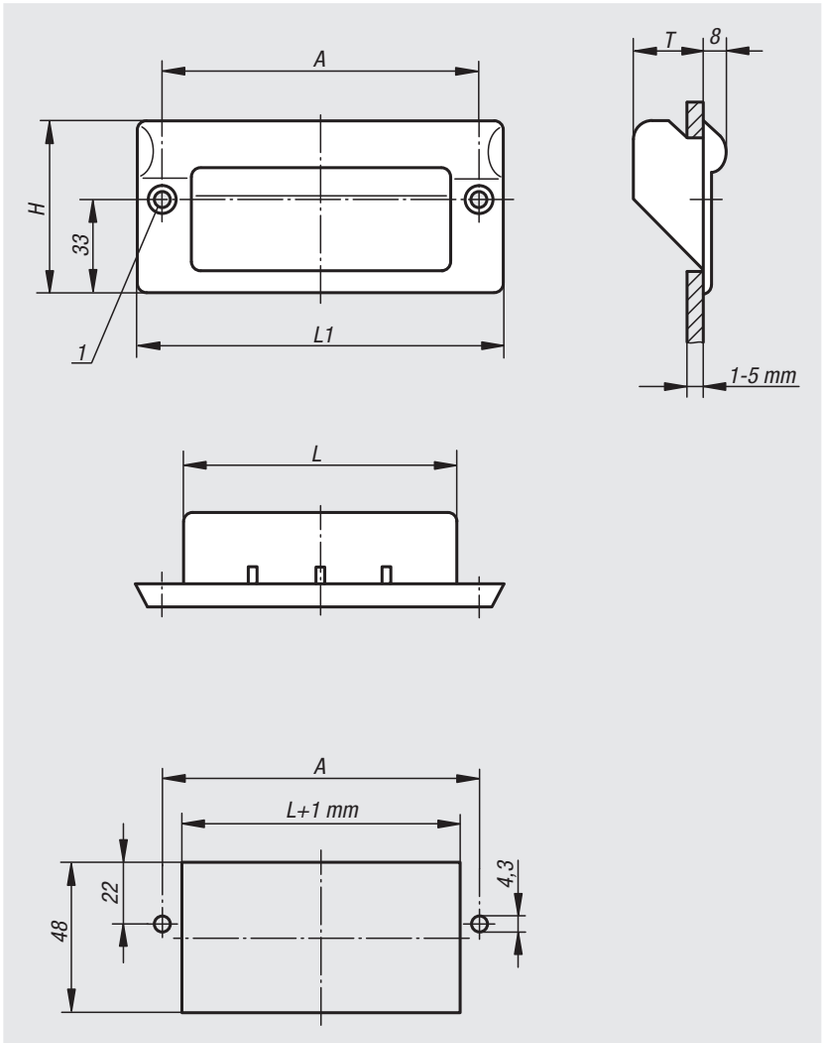
Version:
Semi-matt, black or light grey.

Sample order:
nlm 06965-1082041

Note:
These ergonomically shaped handles are ideally suited for wall thicknesses of 1-5 mm.

Assembly:
The handle is inserted in the cutout of the housing panel and then fixed from the front with 2 countersunk screws (not supplied).

Drawing reference:
1) for countersunk screws M4



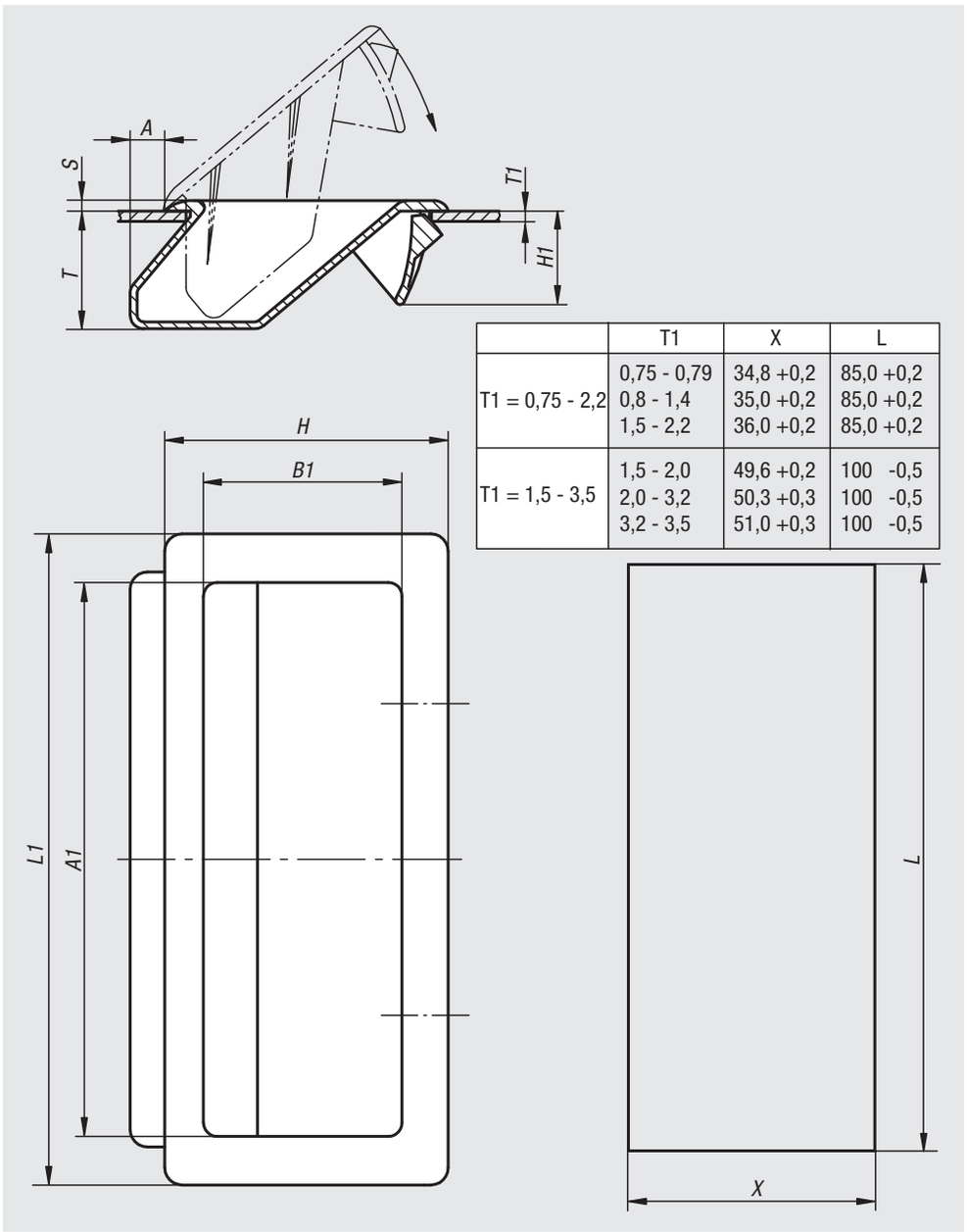
Order No.	Main colour	A	H	L	L1	T	Load capacity N
06965-1082041	black	82	61	67	100	25	1000
06965-1112041	black	112	61	97	130	25	1000
06965-1082042	light grey RAL 7035	82	61	67	100	25	1000
06965-1112042	light grey RAL 7035	112	61	97	130	25	1000

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Recessed grips

clip-in





	T1	X	L
T1 = 0,75 - 2,2	0,75 - 0,79	34,8 +0,2	85,0 +0,2
	0,8 - 1,4	35,0 +0,2	85,0 +0,2
	1,5 - 2,2	36,0 +0,2	85,0 +0,2
T1 = 1,5 - 3,5	1,5 - 2,0	49,6 +0,2	100 -0,5
	2,0 - 3,2	50,3 +0,3	100 -0,5
	3,2 - 3,5	51,0 +0,3	100 -0,5

Material:
Polyamide.

Version:
black.

Sample order:
nlm 06966-01-09441

Note:
Recessed grips for clipping into material with a thickness 0.75 to 3.5 mm.

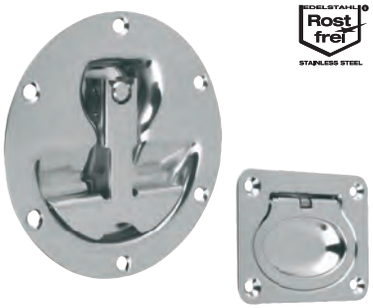
See drawing for installation cut-out dimensions for the various material thicknesses.

Order No.	A	A1	B1	H	H1	L1	S	T
06966-01-09441	5	80	28,7	41	13,5	94	1,5	17
06966-01-11057	10	94	40,3	57	18,65	110	2	26

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Recessed handles fold-down

stainless steel

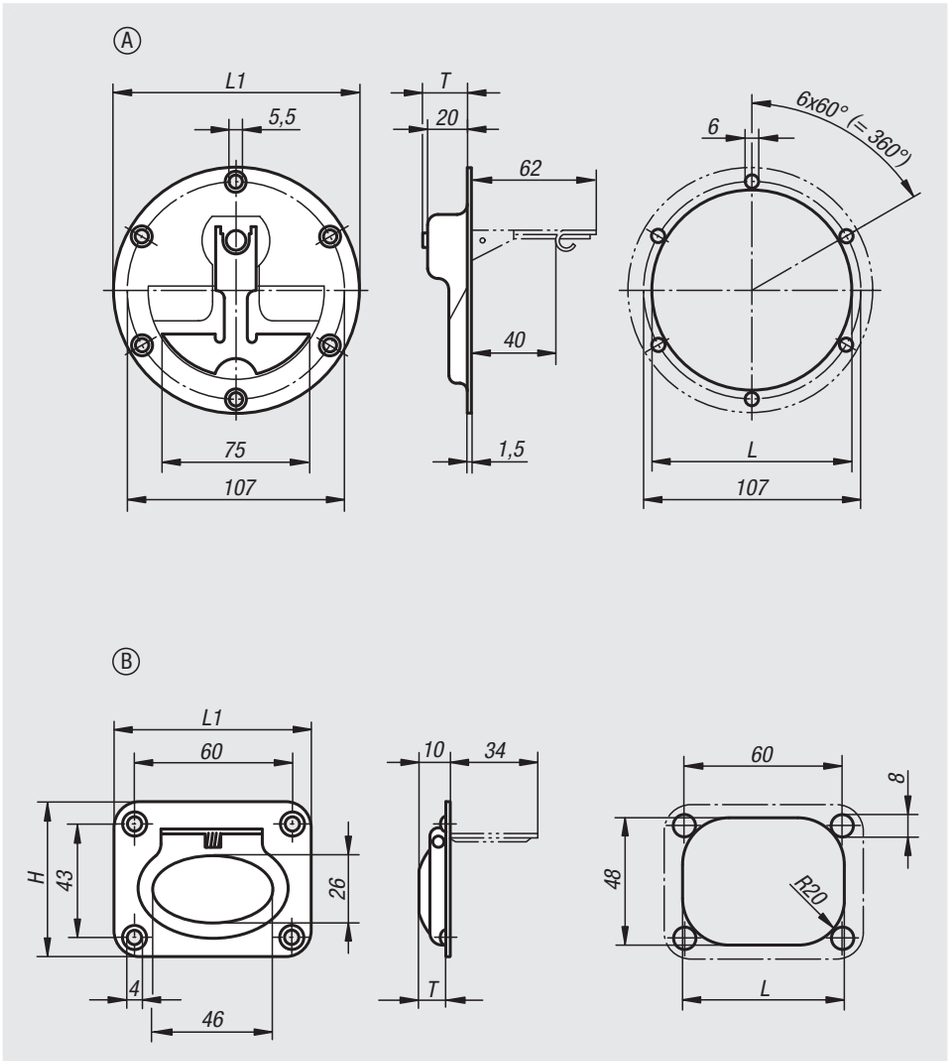


Material:
Stainless steel 1.4301.

Version:
High-gloss electropolished.

Sample order:
nlm 06970-1120000

Note:
Stainless steel retractable grips with marginal installation depth. For base and mounting plates or drawers. With return spring. The grip automatically swivels back into its resting position after use.



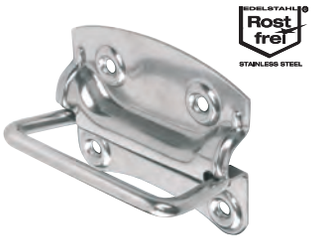
Order No.	Form	Version 2	H	L	L1	T	Load capacity N
06970-1120000	A	screw on	120	98	120	22	200
06970-2075058	B	screw on	58	63	75	9	200

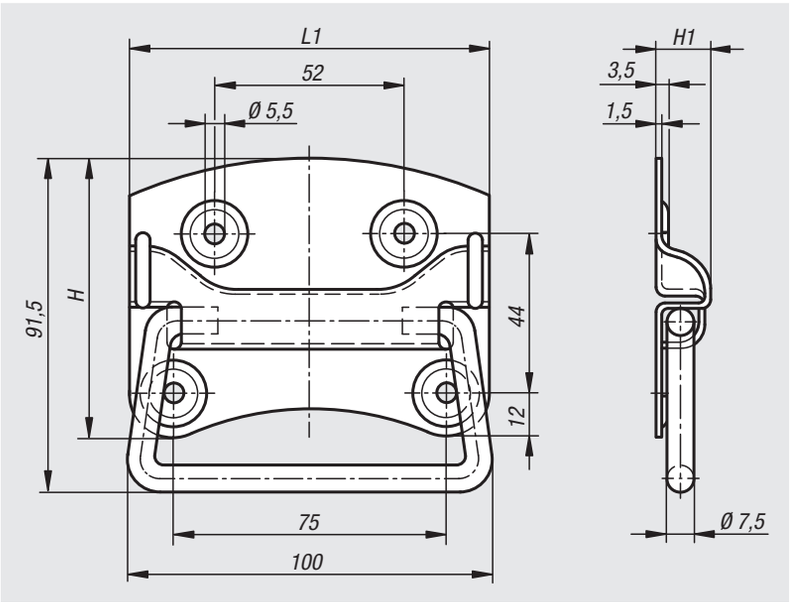
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Recessed handles, fold down

DIN 3136







Material:
Stainless steel 1.4301.

Version:
Bright.

Sample order:
nlm 06970-01-100

Applications:
Crates, chests, lids.

Order No.	H	H1	L1	Load capacity N
06970-01-100	77	14	100	500

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Pull handles angled



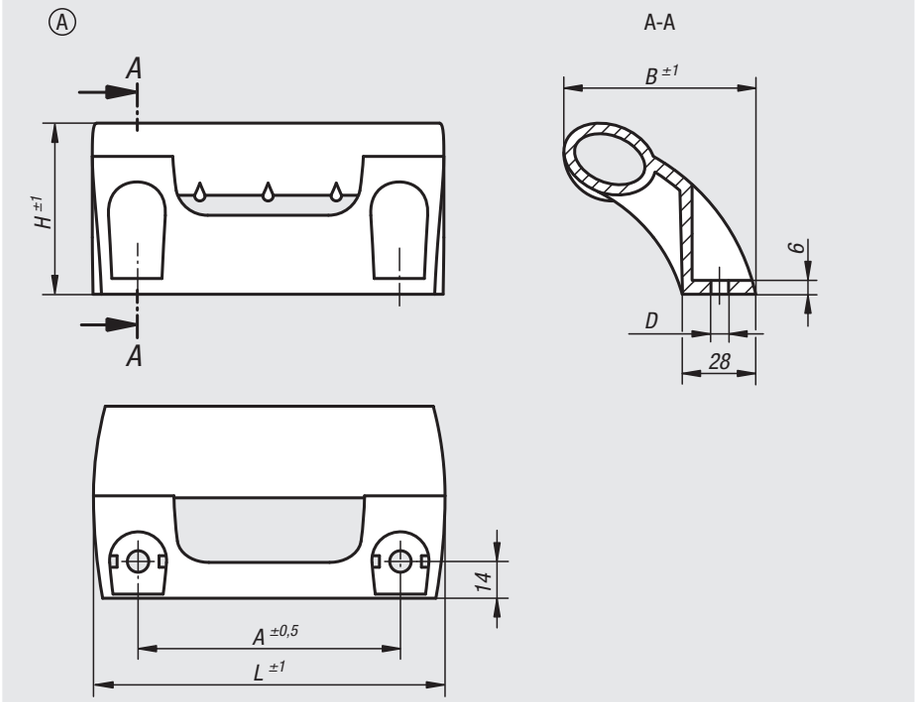
Material:
Glass-bead reinforced thermoplastic PA

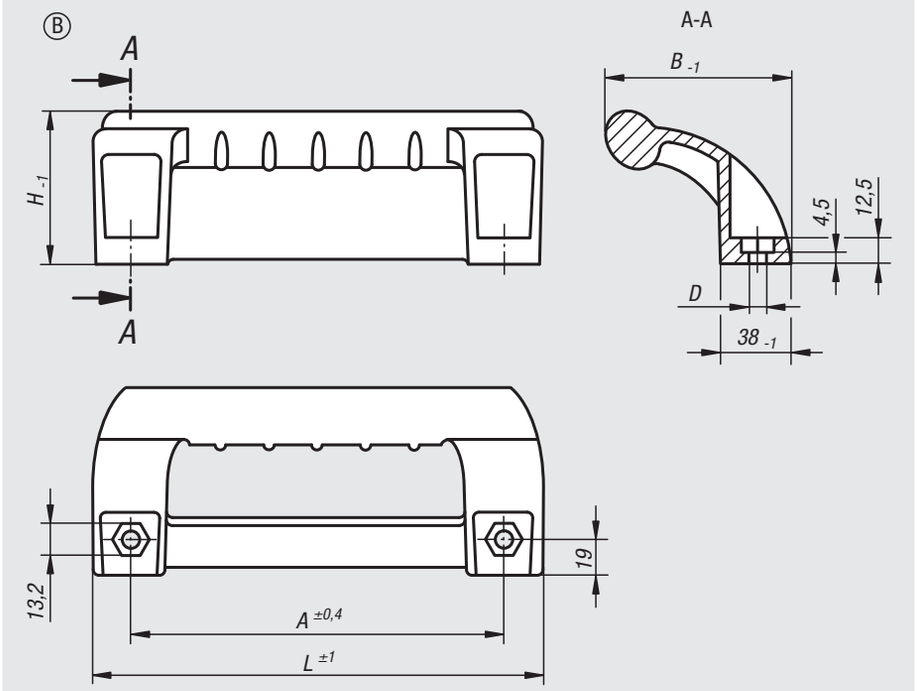
Version:
black.

Sample order:
nlm 06975-100081
nlm 06975-1 (caps, 2 per pack)

Note:
Ergonomic design pull handles with finger shield. For mounting on doors, hatches and aluminium profiles. Ideal for double-leaf doors. Fastening with hexagon or socket head M8 bolts.

Cover caps are not supplied with the handle, please order separately.







Order No.	Form	A	B	D	H	L	Load capacity N	Order No. cover caps
06975-100081	A	100	73	8,5	65	134	1000	06975-1
06975-198081	B	198	100	8,8	80	236	1000	06975-3