

norelem transports

Material handling and transport

95000

Material handling and transport



95010
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Swivel and fixed castors
standard version

95010
Page 1183



Swivel and fixed castors
electrically conductive, standard version

95012
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Swivel and fixed castors
heavy-duty version

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Swivel and fixed castors
steel plate, electrically conductive,
heavy-duty version

95016
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Swivel and fixed castors
standard version

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Swivel and fixed castors
steel plate, electrically conductive
standard version

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Swivel and fixed castors
standard version

95020
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Swivel and fixed castors
heavy-duty version

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Swivel and fixed castors
standard version

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Swivel and fixed castors
medium-duty version

95025-01
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Swivel and fixed castors
steel plate, heavy-duty version

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Swivel and fixed castors
steel plate, with soft rubber tyres

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Swivel castors, steel plate
with soft rubber tyres and bolt hole

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Swivel and fixed castors
medium-duty version

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Swivel and fixed castors
heavy-duty version

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Swivel and fixed castors
welded steel heavy-duty version

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Swivel and fixed castors
standard version

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Swivel and fixed castors
heavy-duty version

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Swivel and fixed castors
heavy-duty version

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Swivel and fixed castors
stainless steel, standard version

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Swivel castors
compact version

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Swivel and fixed castors
steel plate, for sterile areas

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Swivel and fixed castors
stainless steel
for sterile areas

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Swivel castors with bolt hole
stainless steel
for sterile areas

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Wheels
rubber tyres on steel plate rims

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Wheels
rubber tyres on die-cast aluminium rims

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Wheels
polyamide with injection-moulded tread

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Guide rollers

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Wheels
aluminium rims with injection-moulded
tread

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Page 1210



Rollers heavy-load

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Wheels heavy-load
wheel body welded

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Wheels polyamide

+ New/Expanded Items

norelem

Material handling and transport

95000

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Wheels polyamide
heavy-duty version

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Thermoset wheels
heat-resistant

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Elevating castors with foot
with bolt hole or mounting plate

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Elevating castors
with integrated machine foot

95150
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Ball transfer units
with steel housing

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Ball transfer units
with steel housing and plastic ball

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Ball transfer units
undersprung

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Ball transfer units
with solid steel housing

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Ball transfer units heavy duty
stainless steel

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Ball transfer units heavy duty
stainless steel, suitable for outdoor use

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Ball transfer units
with fastening holes, without
housing

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Ball transfer units
with spring clips

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Tolerance rings

95180
Page 1223



Ball transfer units mini

95182-01
Page 1224



Ball transfer units with stud
stainless steel

95300
Page 1225



Small conveyor belts
with internal drive

95000

Material handling and transport



41000

80000

82000

83000

84000

85000

95000

96000

97000

A-Z

Swivel and fixed castors

standard version



Material:

Housing steel plate.
Wheel treads solid rubber.
Wheel rims polyamide.

Version:

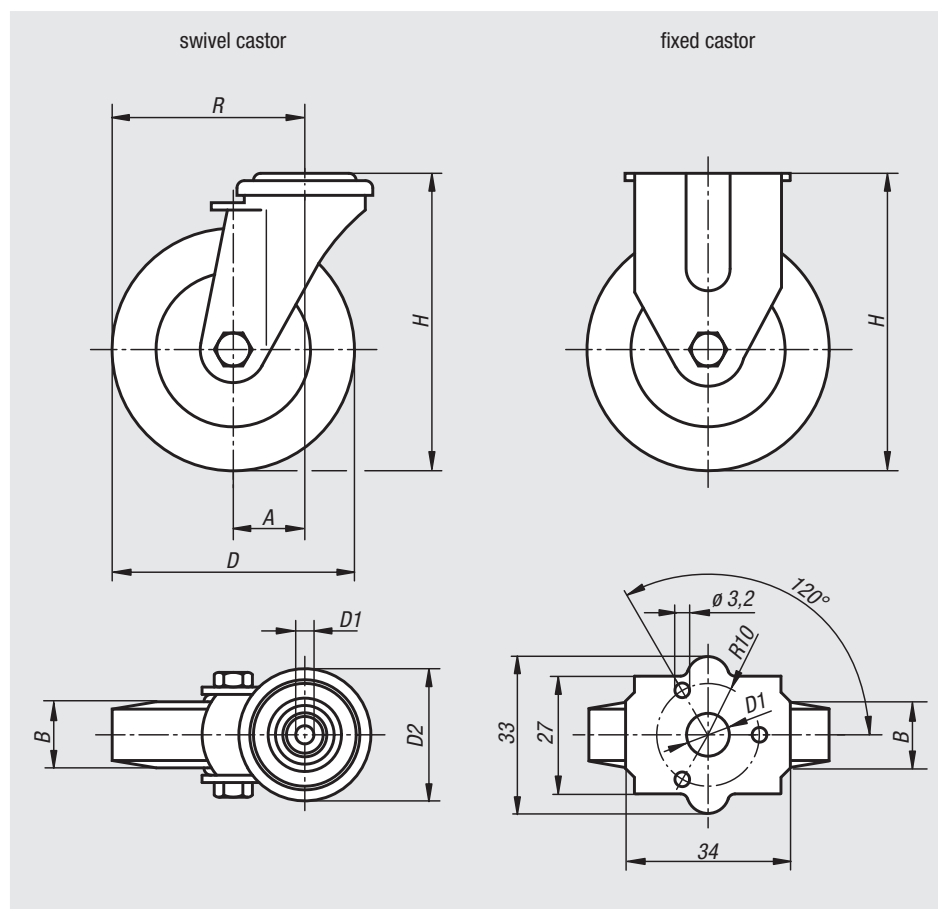
Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

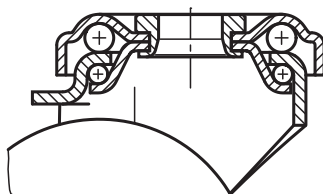
n1m 95010-07525

Note:

Wheel axle bolted.
Swivel and fixed castors with bolt hole.
Wheels grey, non-marking.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
95010-050181	95010-05018	95010-050182	plain bearing	-/25/25	18	50	11	-/43/43	69	-/50/50	40
95010-075251	95010-07525	95010-075252	plain bearing	-/28/28	25	75	11	-/43/43	98	-/65,5/65,5	60
-	95010-10025	95010-100252	plain bearing	33/33	25	100	11	43/43	121	83/83	70

Swivel and fixed castors

electrically conductive, standard version



Material:

Housing steel plate.
Wheels with thermoplastic rubber tread.
Wheel body polypropylene.

Version:

Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

n1m 95010-1105019

Note:

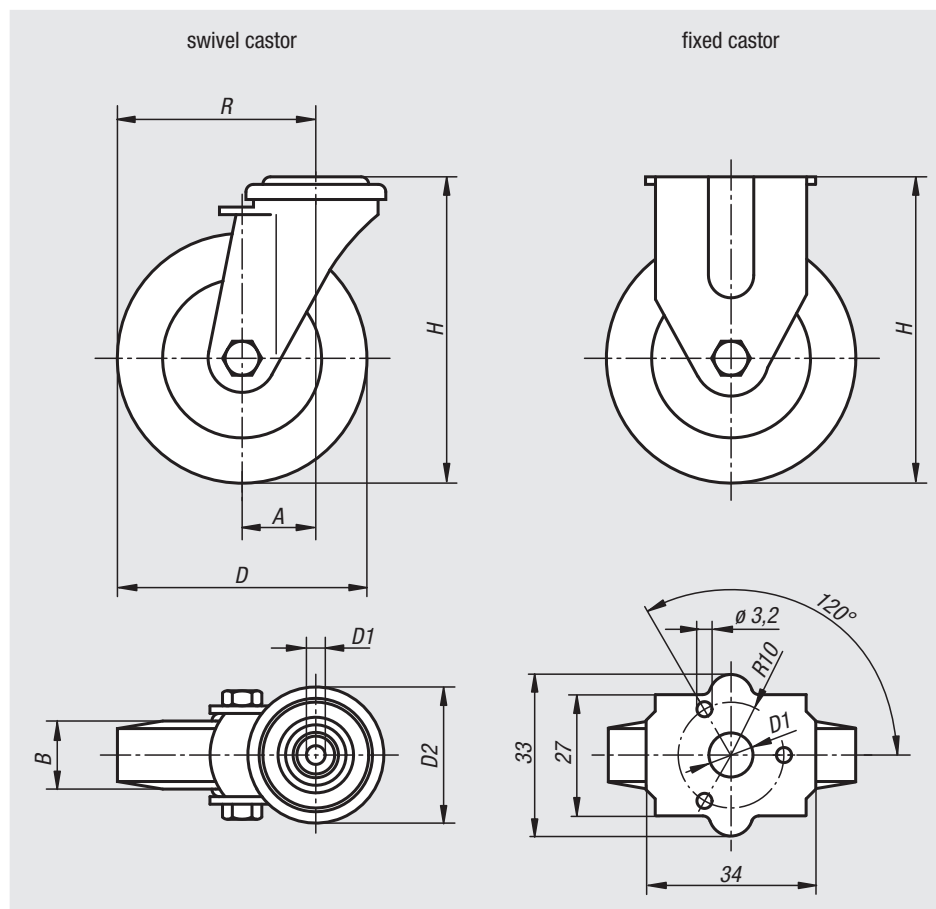
Wheel axle threaded. Swivel and fixed castors with bolt hole. Electrically conductive wheels, non-marking grey. The ohmic resistance of the wheel is less than $10^4 \Omega$.

Application:

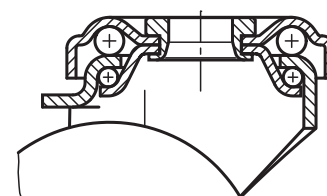
Electrically conductive wheels on swivel and fixed castors are used to protect against electrostatic discharge generated by transport equipment or the transported goods. Damage to sensitive goods and painful electrostatic shocks to the personal is so prevented.

Temperature range:

-20 °C to +60 °C.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
95010-11050191	95010-1105019	95010-11050192	plain bearing	-/25/25	19	50	11	-/43/43	69	-/50/50	30
95010-11075251	95010-1107525	95010-11075252	plain bearing	-/29/29	25	75	11	-/43/43	98	-/66,5/66,5	50
-	95010-1110025	95010-11100252	plain bearing	33/33	25	100	11	43/43	121	83/83	60

Swivel and fixed castors

heavy-duty version



Material:

Housing steel plate.
Wheel treads solid rubber.
Wheel rims polyamide.

Version:

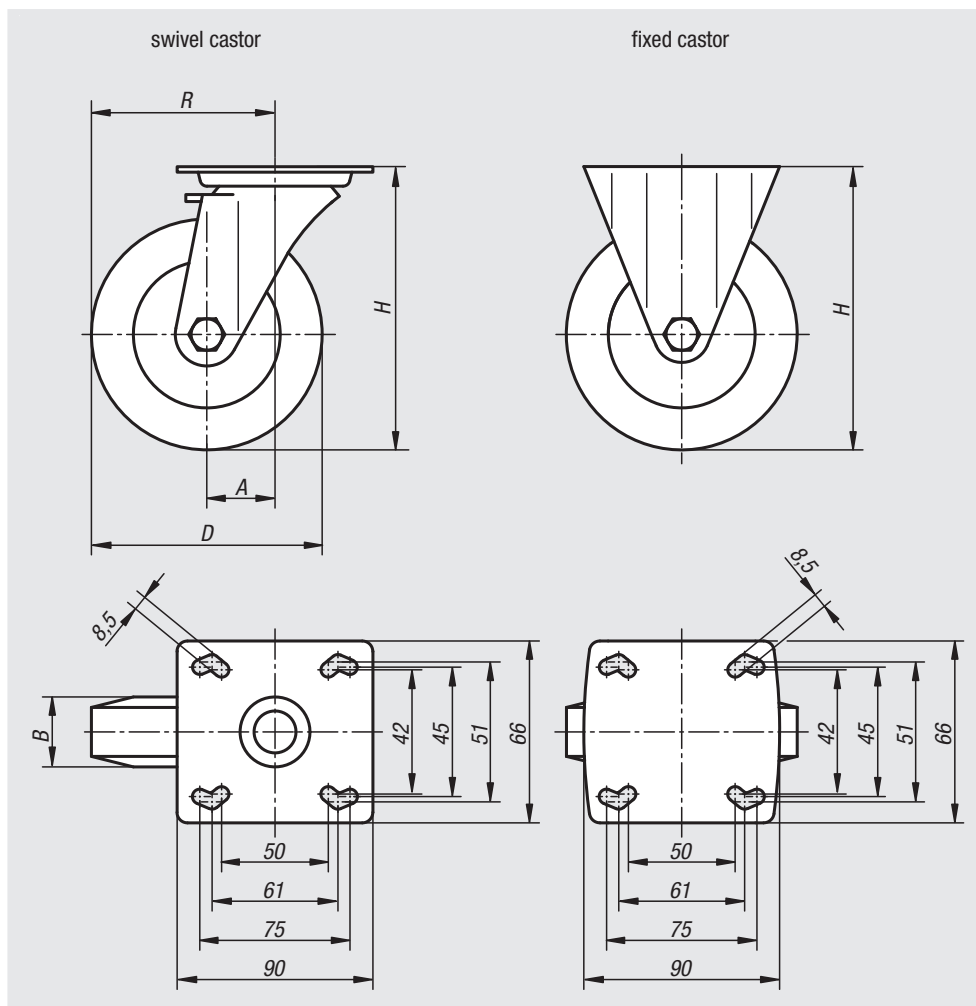
Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

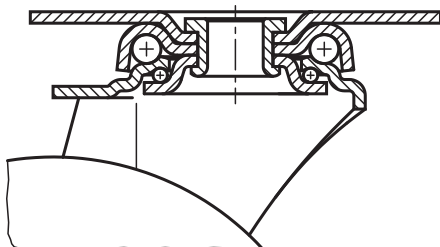
n1m 95012-10032

Note:

Wheel axle bolted.
Solid rubber tyres are shock and impact proof
and non-corroding.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	H	R	Permissible load kg
95012-080251	95012-08025	95012-080252	plain bearing	-/40/40	25	80	111	-/80/80	60
95012-100321	95012-10032	95012-100322	plain bearing	-/40/40	32	100	136	-/90/90	90
95012-125251	95012-12525	95012-125252	plain bearing	-/40/40	25	125	161	-/102,5/102,5	80
95012-125321	95012-12532	95012-125322	plain bearing	-/40/40	32	125	161	-/102,5/102,5	100

Swivel and fixed castors

steel plate, electrically conductive, heavy-duty version



Material:

Housing steel plate.
Wheels with thermoplastic rubber tread.
Wheel body polypropylene.

Version:

Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

nIm 95012-1108032

Note:

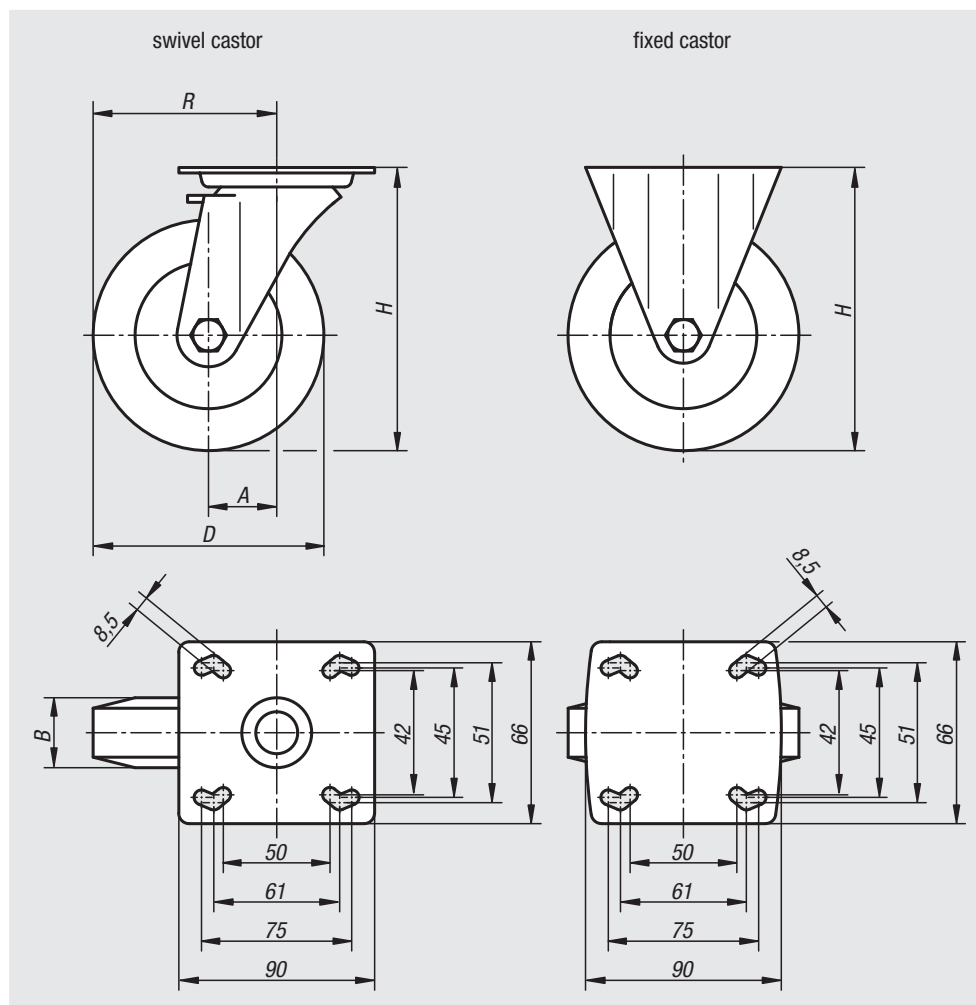
Wheel axle threaded. Swivel and fixed castors with mounting plate. Electrically conductive wheels, non-marking grey. The ohmic resistance of the wheel is less than $10^4 \Omega$.

Application:

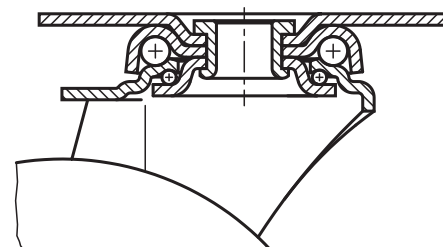
Electrically conductive wheels on swivel and fixed castors are used to protect against electrostatic discharge generated by transport equipment or the transported goods. Damage to sensitive goods and painful electrostatic shocks to the personal is so prevented.

Temperature range:

-20 °C to +60 °C.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	H	R	Permissible load kg
95012-11080321	95012-1108032	95012-11080322	plain bearing	-/40/40	32	80	111	-/80/80	65
95012-11100321	95012-1110032	95012-11100322	plain bearing	-/40/40	32	100	136	-/90/90	70
95012-11125321	95012-1112532	95012-11125322	plain bearing	-/40/40	32	125	161	-/102,5/102,5	80

Swivel and fixed castors

standard version



Material:

Housing and wheel rim steel plate.
Tyres solid rubber.
Wheel hub steel tube.

Version:

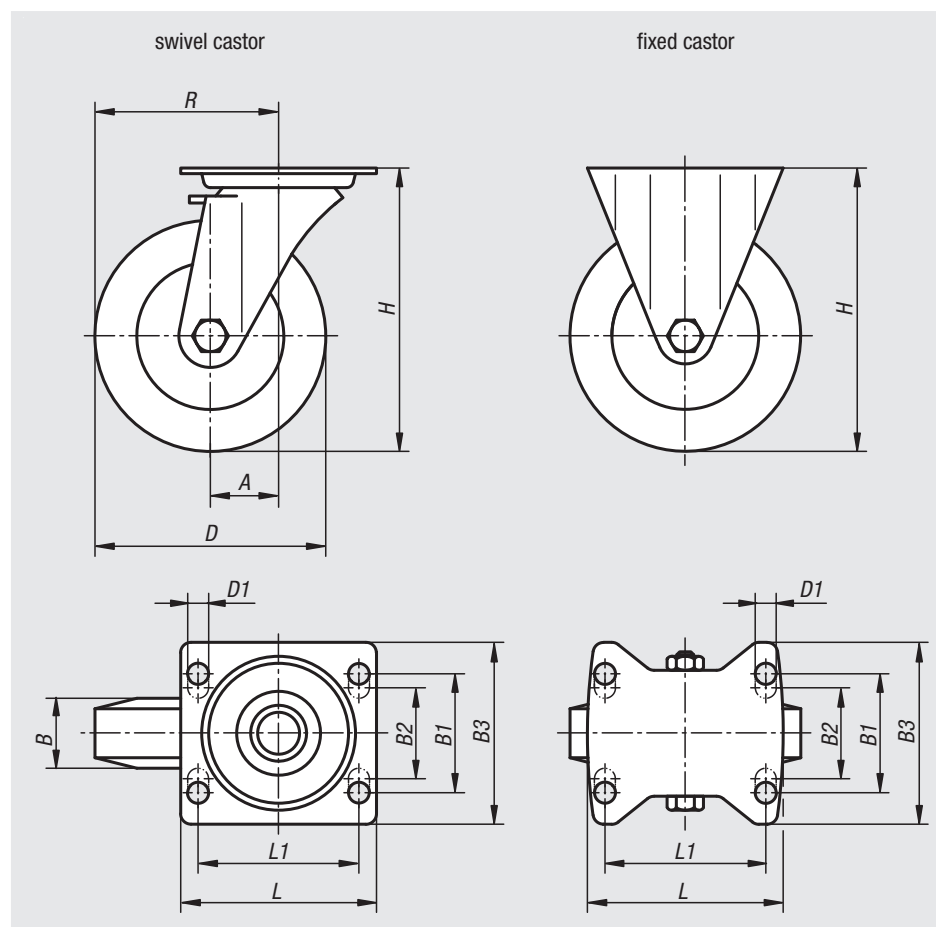
Housing and rim press formed.
Double ball bearing with ball shield in castor head.
Roller bearings in the wheels.

Sample order:

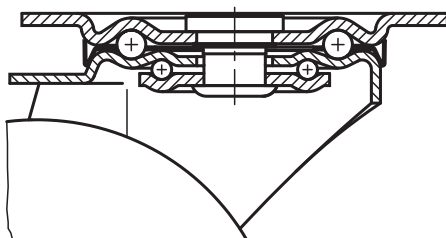
nIm 95016-10030

Note:

Wheel axle bolted.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95016-080251	95016-08025	95016-080252	roller bearing	-/38/38	25	-	60	85	80	9
95016-100301	95016-10030	95016-100302	roller bearing	-/36/36	30	-	60	85	100	9
95016-125381	95016-12538	95016-125382	roller bearing	-/40/40	37,5	-	60	85	125	9
95016-160401	95016-16040	95016-160402	roller bearing	-/60/60	40	75	80	110	160	11
95016-200501	95016-20050	95016-200502	roller bearing	-/65/65	50	75	80	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	L	L1	H	R	Permissible load kg
95016-080251	95016-08025	95016-080252	roller bearing	100	80	102	-/78/78	50
95016-100301	95016-10030	95016-100302	roller bearing	100	80	125	-/86/86	70
95016-125381	95016-12538	95016-125382	roller bearing	100	80	150	-/102,5/102,5	100
95016-160401	95016-16040	95016-160402	roller bearing	140	105	195	-/140/140	135
95016-200501	95016-20050	95016-200502	roller bearing	140	105	235	-/165/165	205

Swivel and fixed castors

steel plate, electrically conductive standard version



Material:

Housing steel plate.
Wheels with thermoplastic rubber tread.
Wheel body polypropylene.

Version:

Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

n1m 95016-1108032

Note:

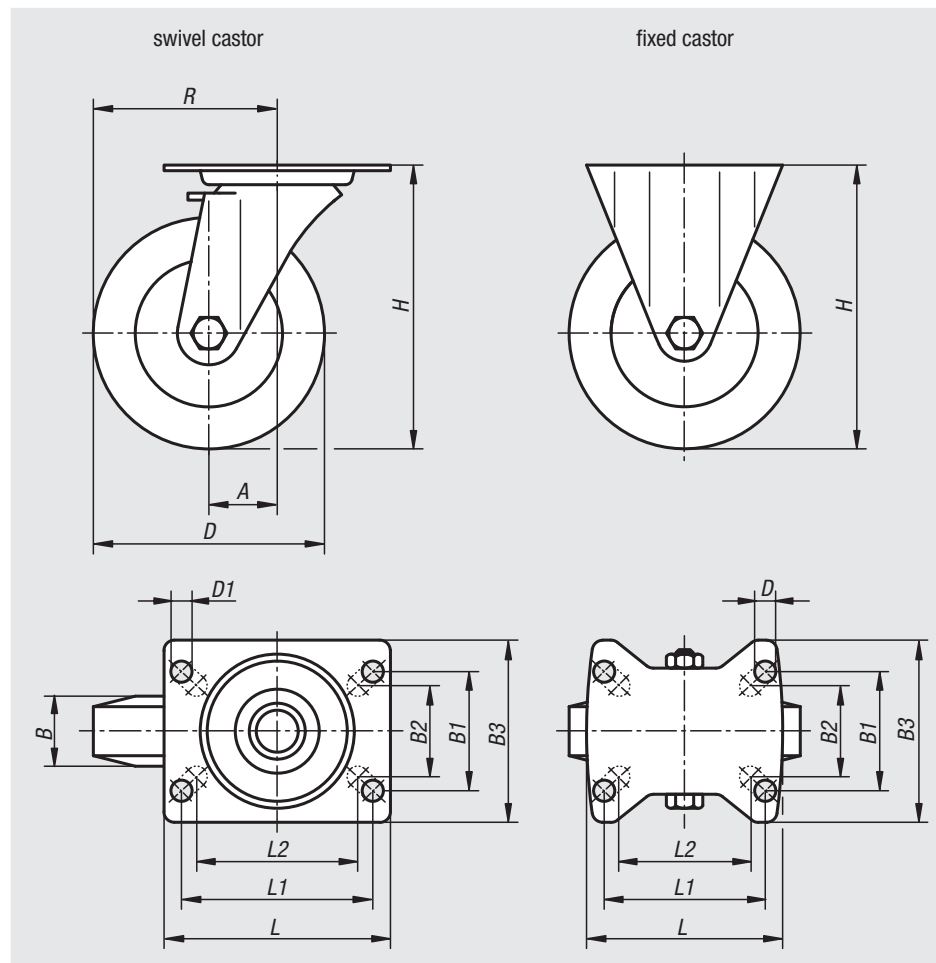
Wheel axle threaded. Swivel and fixed castors with mounting plate. Electrically conductive wheels, non-marking grey. The ohmic resistance of the wheel is less than $10^4 \Omega$.

Application:

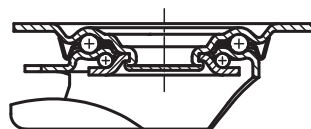
Electrically conductive wheels on swivel and fixed castors are used to protect against electrostatic discharge generated by transport equipment or the transported goods. Damage to sensitive goods and painful electrostatic shocks to the personal is so prevented.

Temperature range:

-20 °C to +60 °C.



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95016-11080321	95016-1108032	95016-11080322	plain bearing	-/38/38	32	55	60	85	80	9
95016-11100321	95016-1110032	95016-11100322	plain bearing	-/36/36	32	55	60	85	100	9
95016-11125321	95016-1112532	95016-11125322	plain bearing	-/40/40	32	55	60	85	125	9
95016-11160401	95016-1116040	95016-11160402	plain bearing	-/54/54	40	75	80	110	160	11
95016-11200401	95016-1120040	95016-11200402	plain bearing	-/54/54	40	75	80	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	L	L1	L2	H	R	Permissible load kg
95016-11080321	95016-1108032	95016-11080322	plain bearing	100	80	76	102	-/78/78	65
95016-11100321	95016-1110032	95016-11100322	plain bearing	100	80	76	125	-/86/86	70
95016-11125321	95016-1112532	95016-11125322	plain bearing	100	80	76	150	-/102,5/102,5	80
95016-11160401	95016-1116040	95016-11160402	plain bearing	140	105	-	195	-/134/134	130
95016-11200401	95016-1120040	95016-11200402	plain bearing	140	105	-	235	-/154/154	160

Swivel and fixed castors

standard version



Material:

Housing steel plate.

Wheel body PA 6 with vulcanised elastic solid rubber tyre.

Version:

Housing press formed.

Double ball bearing with ball shield in castor head.

Roller bearings in the wheels.

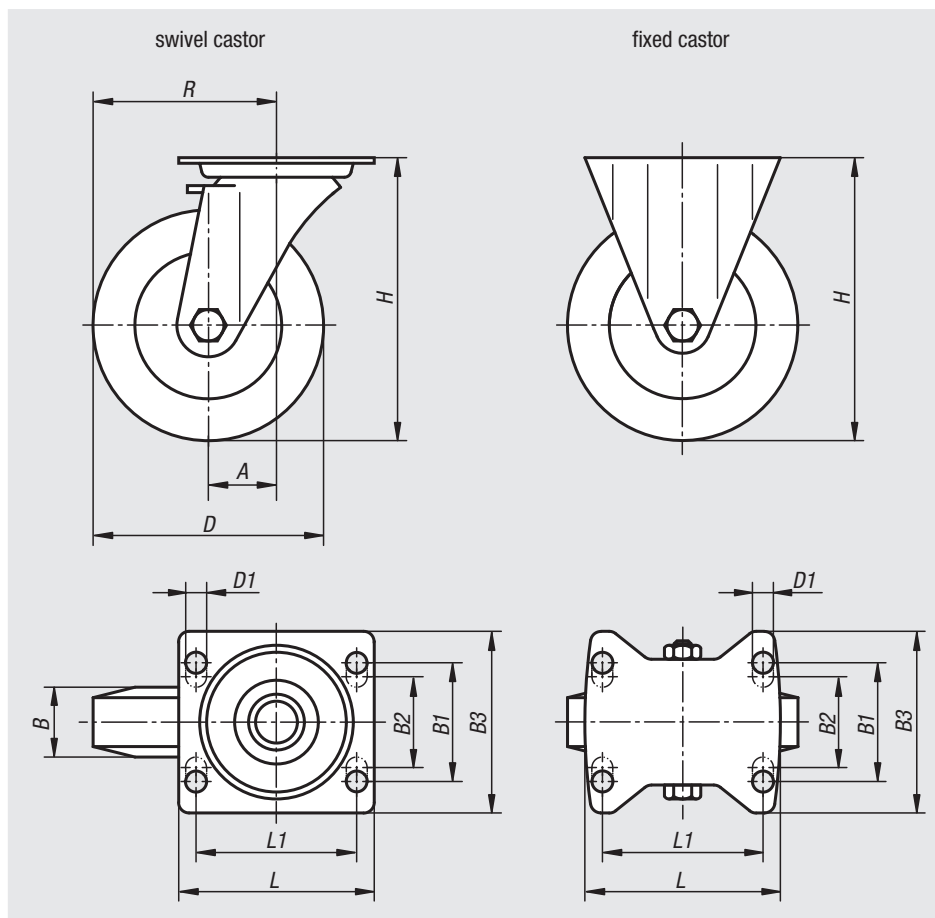
Sample order:

nlm 95018-12537

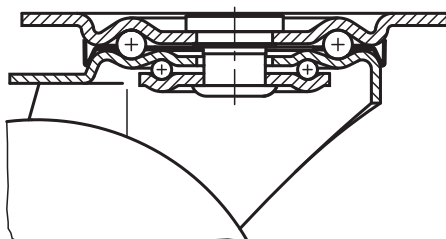
Note:

Wheel axle bolted.

Wheels are shock and impact proof.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95018-100371	95018-10037	95018-100372	roller bearing	-/36/36	38	-	60	85	100	9
95018-125371	95018-12537	95018-125372	roller bearing	-/40/40	40	-	60	85	125	9
95018-160501	95018-16050	95018-160502	roller bearing	-/60/60	50	75	80	110	160	11
95018-200501	95018-20050	95018-200502	roller bearing	-/65/65	50	75	80	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95018-100371	95018-10037	95018-100372	roller bearing	125	100	80	-/86/86	170
95018-125371	95018-12537	95018-125372	roller bearing	150	100	80	-/102,5/102,5	200
95018-160501	95018-16050	95018-160502	roller bearing	195	140	105	-/140/140	350
95018-200501	95018-20050	95018-200502	roller bearing	235	140	105	-/165/165	400

Swivel and fixed castors

heavy-duty version



Material:

Housing thick steel plate.
Tyres steel-wire reinforced elastic solid rubber.
Wheel body welded steel.

Version:

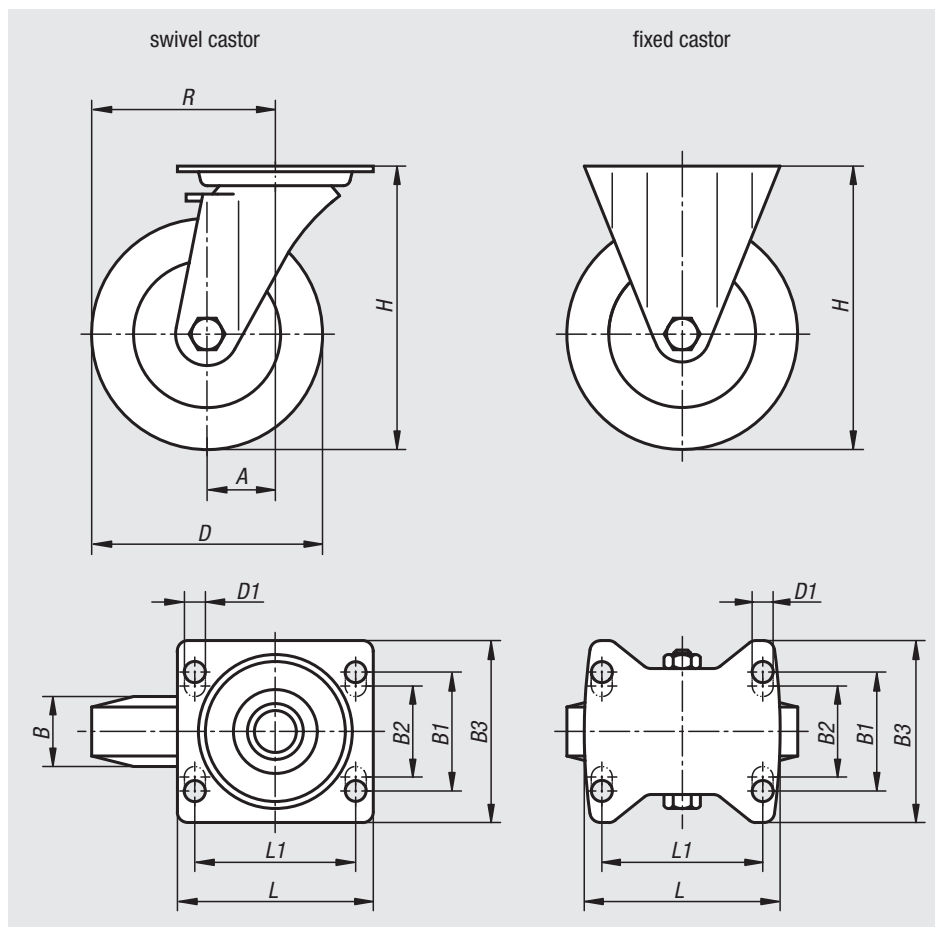
Housing press formed.
Reinforced fork, base plate and centre pin.
Double ball bearing with hardened shells in the castor head.
Precision ball bearings in the wheels.

Sample order:

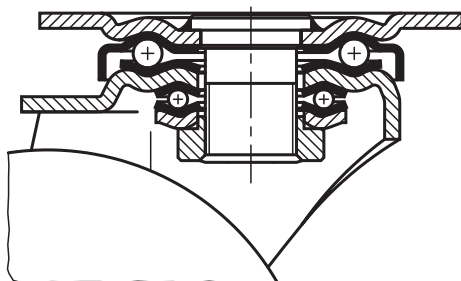
nlm 95020-12550

Note:

These castors are particularly impact and shock proof and assure a high service life.
Wheel axle bolted.



swivel head bearing



Order No. without locking system Fixed Castor	Order No. without locking system Swivel Castor	Order No. with stop-top locking system Swivel Castor	Wheel bearing	A	B	B1	B2	B3	D	D1
95020-100401	95020-10040	95020-100402	ball bearing	-/45/45	40	60	-	85	100	9
95020-125501	95020-12550	95020-125502	ball bearing	-/55/55	50	80	75	110	125	11
95020-160501	95020-16050	95020-160502	ball bearing	-/65/65	50	80	75	110	160	11
95020-200501	95020-20050	95020-200502	ball bearing	-/70/70	50	80	75	110	200	11
95020-250601	95020-25060	95020-250602	ball bearing	-/82/82	60	80	75	110	250	11

Order No. without locking system Fixed Castor	Order No. without locking system Swivel Castor	Order No. with stop-top locking system Swivel Castor	Wheel bearing	H	L	L1	R	Permissible load kg
95020-100401	95020-10040	95020-100402	ball bearing	140	100	80	-/95/95	180
95020-125501	95020-12550	95020-125502	ball bearing	170	140	105	-/117,5/117,5	280
95020-160501	95020-16050	95020-160502	ball bearing	202	140	105	-/145/145	400
95020-200501	95020-20050	95020-200502	ball bearing	245	140	105	-/170/170	500
95020-250601	95020-25060	95020-250602	ball bearing	295	140	105	-/207/207	700

Swivel and fixed castors

standard version



Material:

Housing steel plate.
Wheel body PA 6 with abrasion-resistant polyurethane tread.

Version:

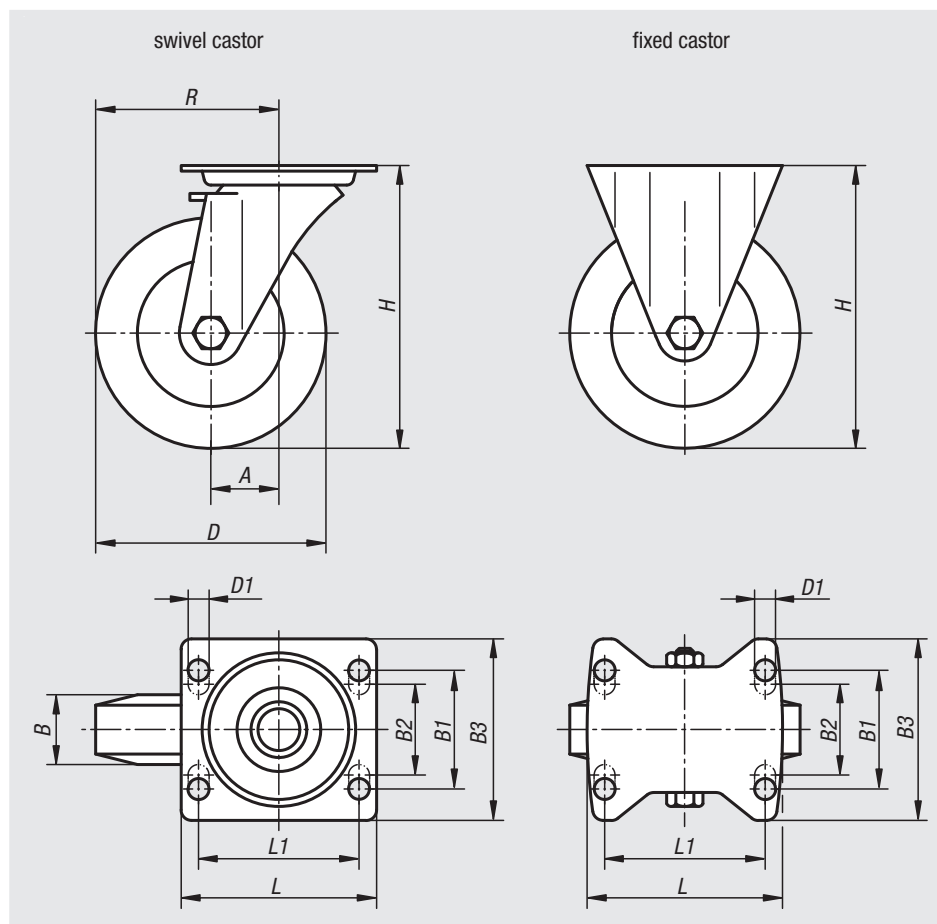
Housing press formed.
Double ball bearing with ball shield in the castor head.
Plain bearing in the wheels.

Sample order:

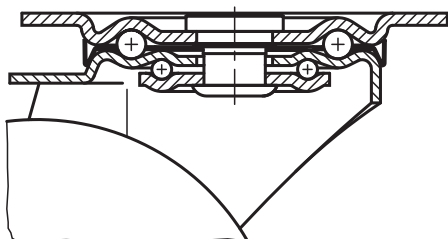
nlm 95024-12535

Note:

The wheels are unbreakable, maintenance-free and non-corroding. Wheel axle bolted. Tread non-marking.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95024-100351	95024-10035	95024-100352	plain bearing	-/36/36	35	60	-	85	100	9
95024-125351	95024-12535	95024-125352	plain bearing	-/40/40	40	60	-	85	125	9
95024-150401	95024-15040	95024-150402	plain bearing	-/60/60	45	80	75	110	150	11
95024-200501	95024-20050	95024-200502	plain bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95024-100351	95024-10035	95024-100352	plain bearing	125	100	80	-/86/86	200
95024-125351	95024-12535	95024-125352	plain bearing	150	100	80	-/102,5/102,5	200
95024-150401	95024-15040	95024-150402	plain bearing	190	140	105	-/135/135	400
95024-200501	95024-20050	95024-200502	plain bearing	235	140	105	-/165/165	400

Swivel and fixed castors

medium-duty version



Material:

Housing, steel plate.
Wheel tread, high quality polyurethane elastomere.
Wheel rims, die-cast aluminium.

Version:

Housing, press-formed.
Swivel housing, double-row ball bearings in a swivel head.
Ball bearing wheel axle bearings.

Sample order:

nIm 95025-101000401

Note:

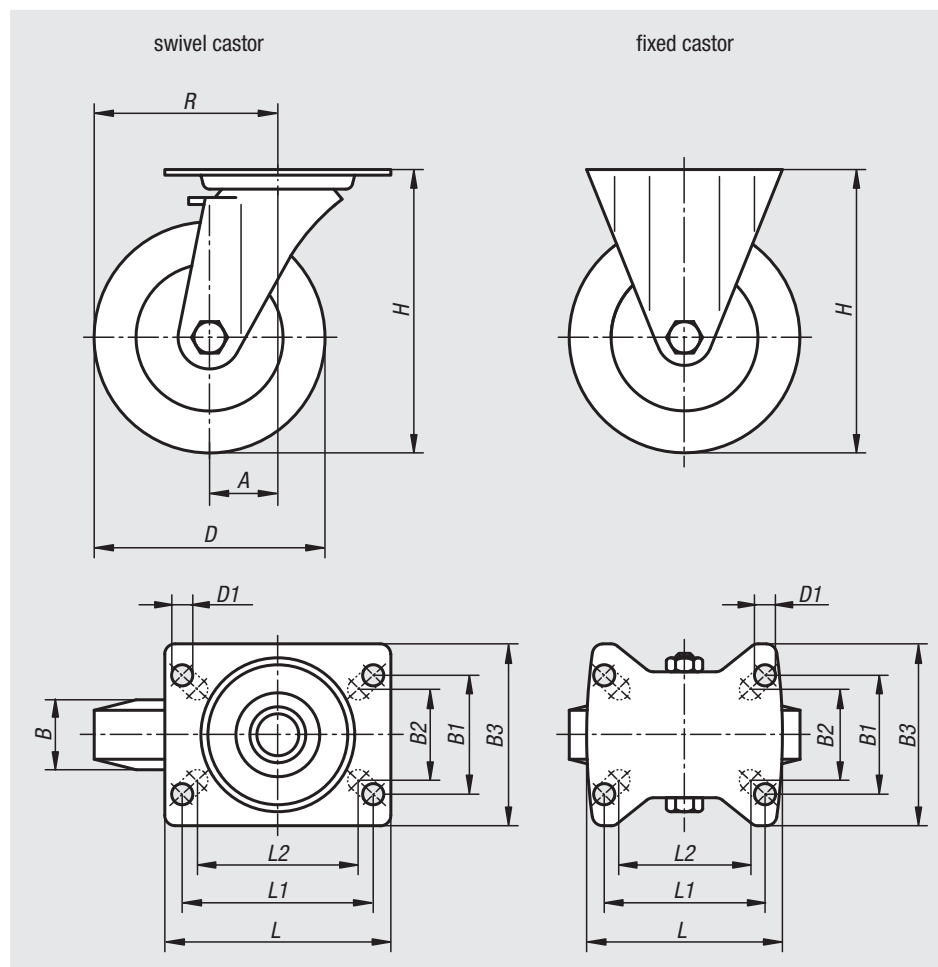
Wheel axle bolted.
Swivel and fixed castors with mounting plate.

Application:

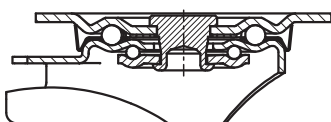
Heavy loads can be easily transported using this load handling equipment. The roll and swivel resistance is reduced with this new wheel series designed for intralogistic heavy load applications.

Temperature range:

-25 °C to +70 °C



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95025-101000401	95025-10100040	95025-101000402	ball bearing	-/36/36	40	60	55	85	100	9
95025-101250401	95025-10125040	95025-101250402	ball bearing	-/40/40	40	60	55	85	125	9
95025-101500501	95025-10150050	95025-101500502	ball bearing	-/60/60	50	80	75	110	150	11
95025-101600501	95025-10160050	95025-101600502	ball bearing	-/60/60	50	80	75	110	160	11
95025-102000501	95025-10200050	95025-102000502	ball bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
95025-101000401	95025-10100040	95025-101000402	ball bearing	125	100	80	76	-/86/86	200
95025-101250401	95025-10125040	95025-101250402	ball bearing	150	100	80	76	-/102,5/102,5	200
95025-101500501	95025-10150050	95025-101500502	ball bearing	190	140	105	-	-/135/135	400
95025-101600501	95025-10160050	95025-101600502	ball bearing	195	140	105	-	-/140/140	400
95025-102000501	95025-10200050	95025-102000502	ball bearing	235	140	105	-	-/165/165	400

Swivel and fixed castors

steel plate, heavy-duty version



Material:

Housing, steel plate.
Wheel tread, high quality polyurethane elastomere.
Wheel rims, die-cast aluminium.

Version:

Housing, press-formed.
Swivel housing, double-row ball bearings in a swivel head.
Ball bearing wheel axle bearings.

Sample order:

nlm 95025-01-1012504011

Note:

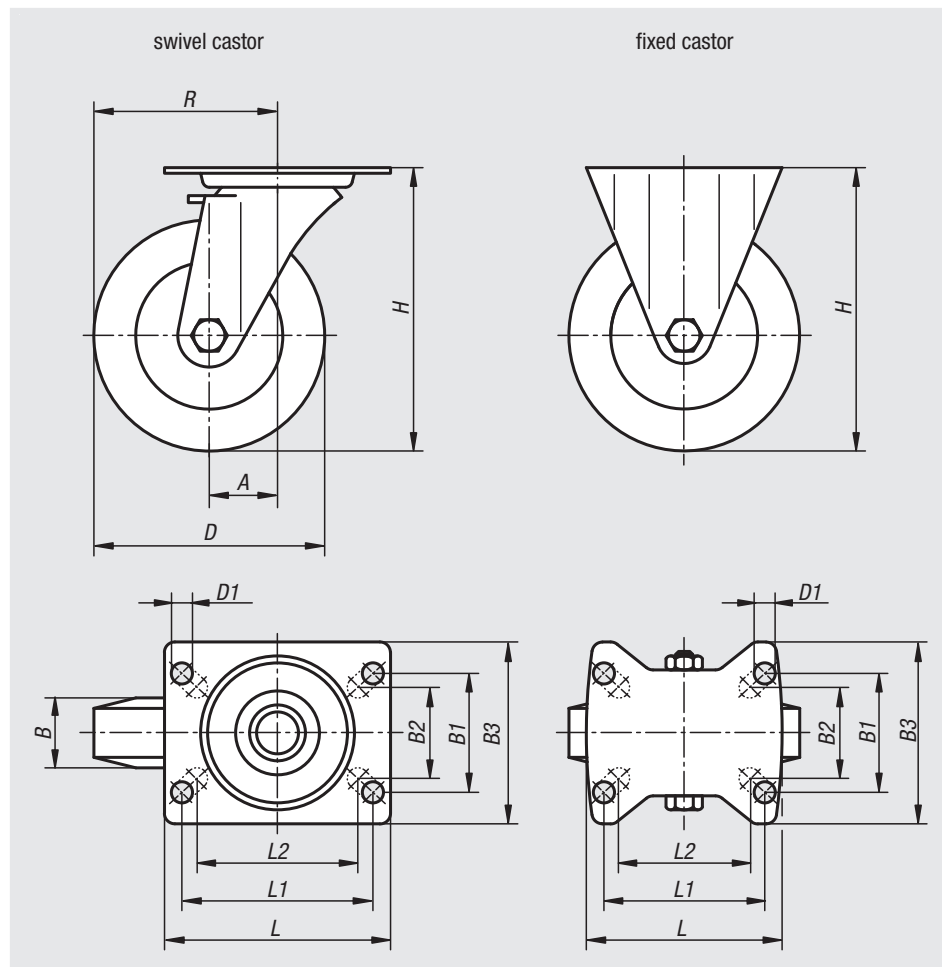
Wheel axle bolted.
Swivel and fixed castors with mounting plate.

Application:

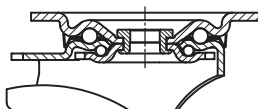
Heavy loads can be easily transported using this load handling equipment. The roll and swivel resistance is reduced with this new wheel series designed for intralogistic heavy load applications.

Temperature range:

-25 °C to +70 °C



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95025-01-1010004011	95025-01-101000401	95025-01-1010004021	ball bearing	-/45/45	40	60	55	85	100	9
95025-01-1010004013	95025-01-101000403	95025-01-1010004023	ball bearing	-/45/45	40	80	75	110	100	11
95025-01-1012504011	95025-01-101250401	95025-01-1012504021	ball bearing	-/48/48	40	60	55	85	125	9
95025-01-1012504013	95025-01-101250403	95025-01-1012504023	ball bearing	-/48/48	40	80	75	110	125	11
95025-01-101500501	95025-01-10150050	95025-01-101500502	ball bearing	-/63/63	50	80	75	110	150	11
95025-01-101600501	95025-01-10160050	95025-01-101600502	ball bearing	-/63/63	50	80	75	110	160	11
95025-01-102000501	95025-01-10200050	95025-01-102000502	ball bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
95025-01-1010004011	95025-01-101000401	95025-01-1010004021	ball bearing	130	100	80	76	-/95/95	350
95025-01-1010004013	95025-01-101000403	95025-01-1010004023	ball bearing	130	140	105	-	-/95/95	350
95025-01-1012504011	95025-01-101250401	95025-01-1012504021	ball bearing	155	100	80	76	-/110,5/110,5	350
95025-01-1012504013	95025-01-101250403	95025-01-1012504023	ball bearing	155	140	105	-	-/110,5/110,5	350
95025-01-101500501	95025-01-10150050	95025-01-101500502	ball bearing	197	140	105	-	-/138/138	500
95025-01-101600501	95025-01-10160050	95025-01-101600502	ball bearing	202	140	105	-	-/143/143	550
95025-01-102000501	95025-01-10200050	95025-01-102000502	ball bearing	245	140	105	-	-/165/165	600

Swivel and fixed castors

steel plate, with soft rubber tyres



Material:

Housing, steel plate.
Wheel tyre, high-quality elastic solid rubber.
Wheel rim, high-quality unbreakable polyamide or die-cast aluminium.

Version:

Housing, press-formed.
Swivel housing, double-row ball bearings in a swivel head.
Ball bearing wheel axle bearings.

Sample order:

nlm 95026-10160050

Note:

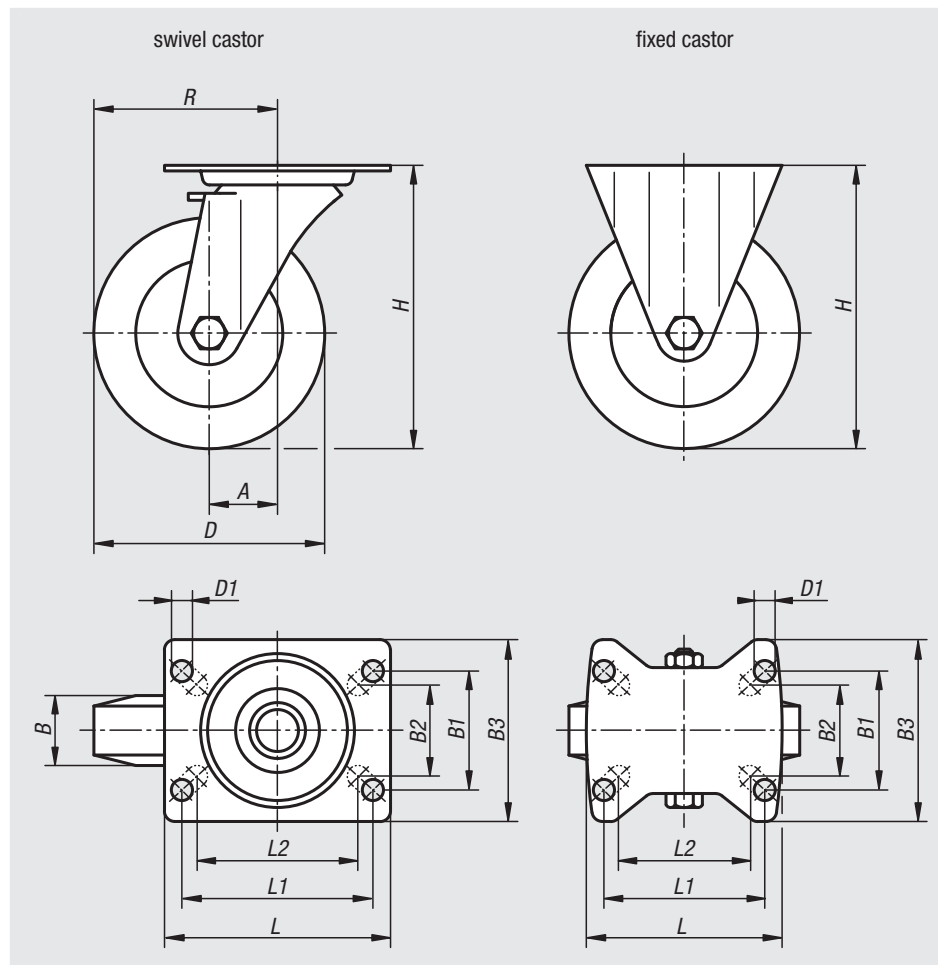
Wheel axle bolted.
Swivel and fixed castors with mounting plate.

Application:

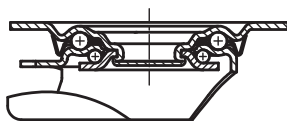
Maximum travel comfort, excellent cushioning of the transported goods. The new soft rubber series brings noticeable noise reduction in all applications.

Temperature range:

-25 °C to +80 °C.



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95026-101000401	95026-10100040	95026-101000402	ball bearing	-/36/36	40	60	55	85	100	9
95026-101250401	95026-10125040	95026-101250402	ball bearing	-/40/40	40	60	55	85	125	9
95026-101500401	95026-10150040	95026-101500402	ball bearing	-/54/54	40	80	75	110	150	11
95026-101600501	95026-10160050	95026-101600502	ball bearing	-/54/54	50	80	75	110	160	11
95026-102000501	95026-10200050	95026-102000502	ball bearing	-/54/54	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
95026-101000401	95026-10100040	95026-101000402	ball bearing	125	100	80	76	-/86/86	150
95026-101250401	95026-10125040	95026-101250402	ball bearing	150	100	80	76	-/102,5/102,5	150
95026-101500401	95026-10150040	95026-101500402	ball bearing	190	140	105	-	-/129/129	280
95026-101600501	95026-10160050	95026-101600502	ball bearing	195	140	105	-	-/134/134	300
95026-102000501	95026-10200050	95026-102000502	ball bearing	235	140	105	-	-/154/154	300

Swivel castors, steel plate

with soft rubber tyres and bolt hole



Material:

Housing, steel plate.

Wheel tyre, high quality elastic solid rubber.

Wheel rim, high quality unbreakable polyamide.

Version:

Housing, press-formed.

Swivel housing, double-row ball bearings in a swivel head.

Ball bearing wheel axle bearings.

Sample order:

nIm 95026-01-10125040

Note:

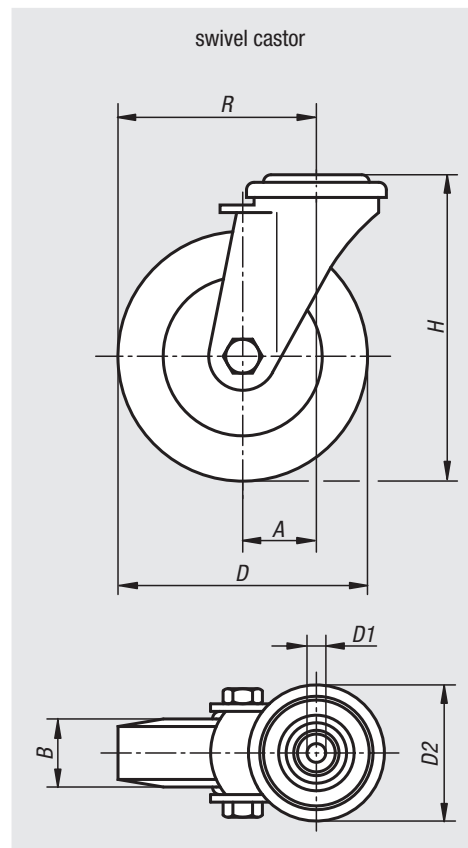
Wheel axle bolted.

Application:

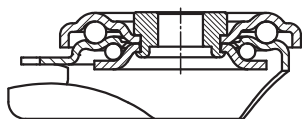
Maximum travel comfort, excellent cushioning of the transported goods. The new soft rubber series brings noticeable noise reduction in all applications.

Temperature range:

-25 °C to +80 °C.



swivel head bearing:



Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
95026-01-10100040	95026-01-101000402	ball bearing	36	40	100	13	70	125	86	150
95026-01-10125040	95026-01-101250402	ball bearing	40	40	125	13	70	150	102,5	150

Swivel and fixed castors

medium-duty version



Material:

Housing steel plate.
Wheel body die-cast aluminium with Extrathane® tread.

Version:

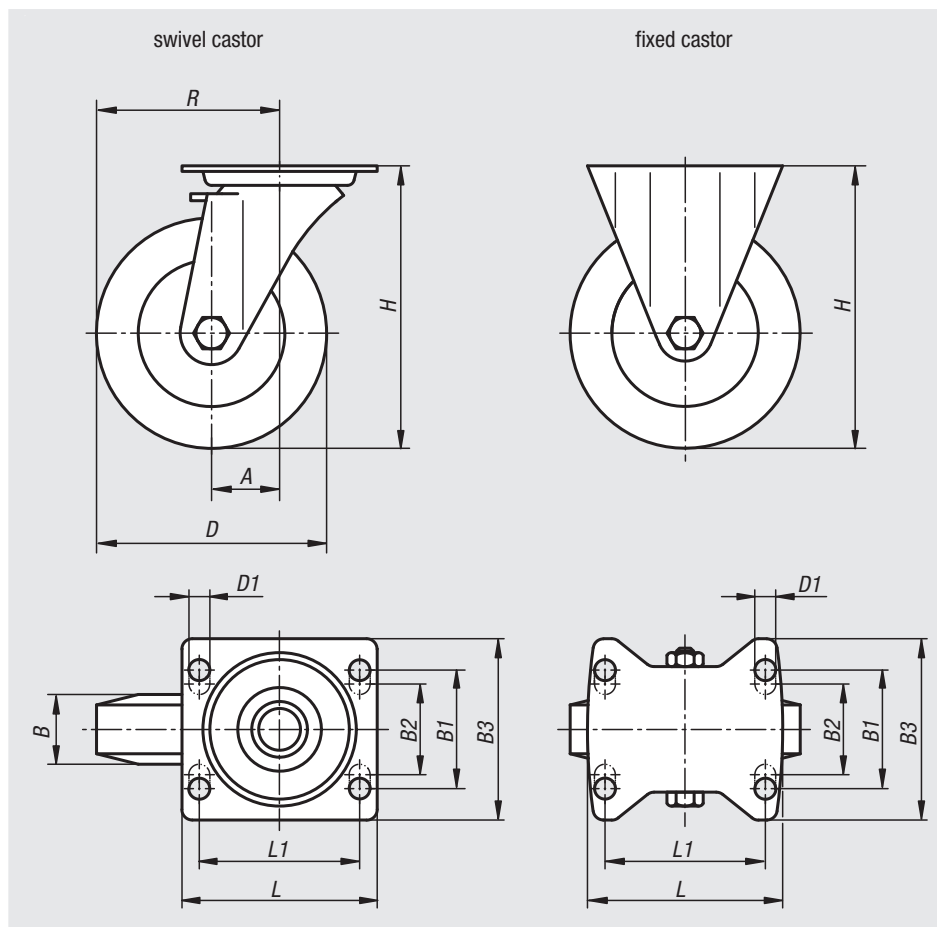
Housing press formed.
Double ball bearing with ball shield in the castor head.
Precision ball bearings in the wheels.

Sample order:

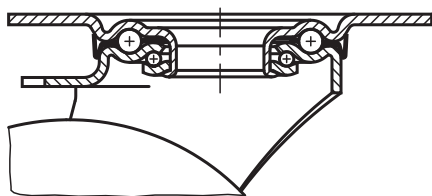
nlm 95028-12540

Note:

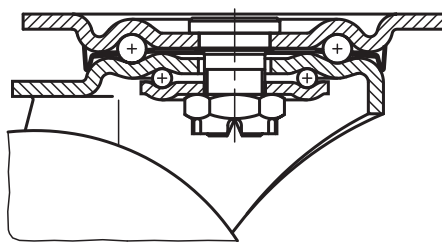
The wheels are non-corroding and have a low rolling resistance. Wheel axle bolted.



swivel head bearing $R1 \leq 125$



swivel head bearing $R1 \geq 160$



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95028-100401	95028-10040	95028-100402	ball bearing	-/45/45	40	60	-	85	100	9
95028-125401	95028-12540	95028-125402	ball bearing	-/48/48	40	60	-	85	125	9
95028-160501	95028-16050	95028-160502	ball bearing	-/63/63	50	80	75	110	160	11
95028-200501	95028-20050	95028-200502	ball bearing	-/70/70	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95028-100401	95028-10040	95028-100402	ball bearing	130	100	80	-/95/95	250
95028-125401	95028-12540	95028-125402	ball bearing	155	100	80	-/110,5/110,5	250
95028-160501	95028-16050	95028-160502	ball bearing	202	140	105	-/143/143	550
95028-200501	95028-20050	95028-200502	ball bearing	245	140	105	-/170/170	800

Swivel and fixed castors

heavy-duty version



Material:

Housing thick steel plate.
Wheels welded steel body and Extrathane® tread.

Version:

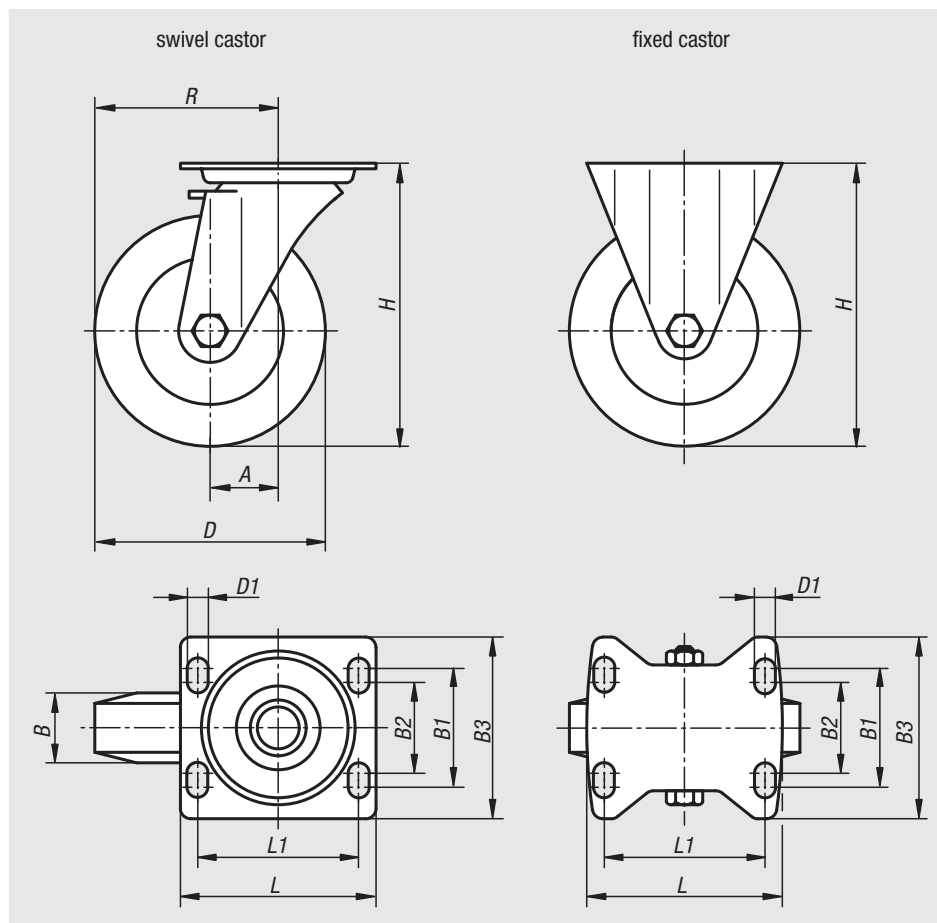
Housing press formed.
Swivel castor housing with strong fork and base plate, very robust centre pin bolted and secured.
The swivel head is additionally reinforced with specially formed and hardened bearing shells.

Sample order:

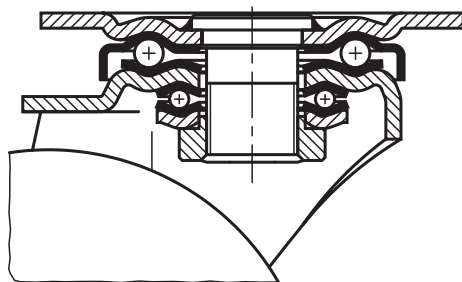
nIm 95030-16050

Note:

These castors are particularly shock and impact proof. The treads resist abrasion and are elastic and low-noise. Wheel axle bolted.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95030-125501	95030-12550	95030-125502	ball bearing	-/55/55	50	80	75	110	125	11
95030-160501	95030-16050	95030-160502	ball bearing	-/65/65	50	80	75	110	160	11
95030-200501	95030-20050	95030-200502	ball bearing	-/70/70	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95030-125501	95030-12550	95030-125502	ball bearing	170	140	105	-/117,5/117,5	500
95030-160501	95030-16050	95030-160502	ball bearing	202	140	105	-/145/145	700
95030-200501	95030-20050	95030-200502	ball bearing	245	140	105	-/170/170	900

Swivel and fixed castors

welded steel heavy-duty version



Material:

Housing solid welded steel construction. Wheels with welded steel body and Extrathane® tread.

Version:

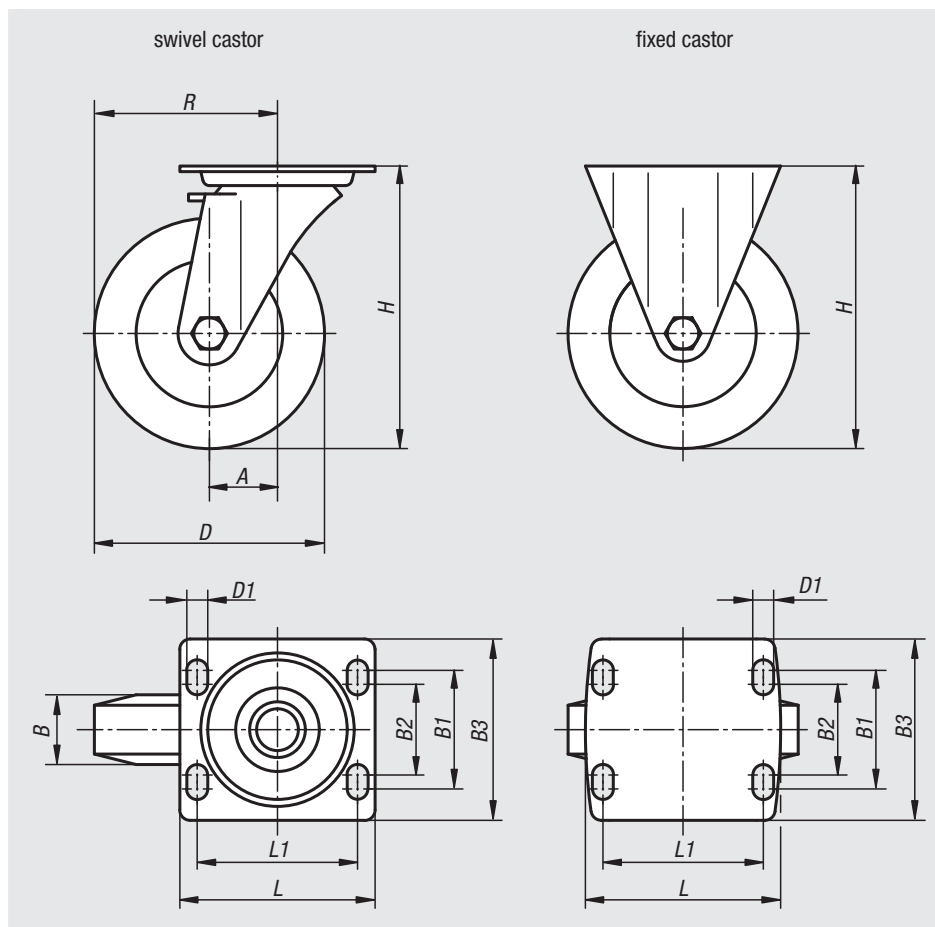
The housing is a rugged welded steel construction. Swivel castor housing with DIN 711 axial groove ball bearing and DIN 720 tapered roller bearing in the swivel head. Dust and splash-proof, with grease nipple. Precision ball bearings in the wheels.

Sample order:

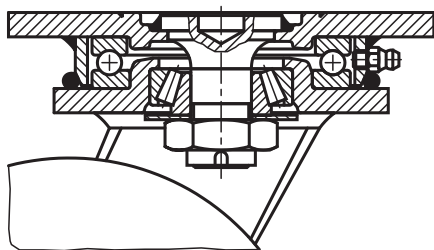
nlm 95032-20050

Note:

Centre pin welded in, bolted and secured. Wheel axle bolted.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95032-160501	95032-16050	95032-160502	ball bearing	-/55/55	50	80	75	110	160	11
95032-200501	95032-20050	95032-200502	ball bearing	-/60/60	50	80	75	110	200	11
95032-250601	95032-25060	95032-250602	ball bearing	-/75/75	60	105	-	140	250	14

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95032-160501	95032-16050	95032-160502	ball bearing	205	140	105	-/135/135	700
95032-200501	95032-20050	95032-200502	ball bearing	245	140	105	-/160/160	1000
95032-250601	95032-25060	95032-250602	ball bearing	305	175	140	-/200/200	1350

Swivel and fixed castors

standard version



Material:

Housing steel plate.
Wheels PA 6.

Version:

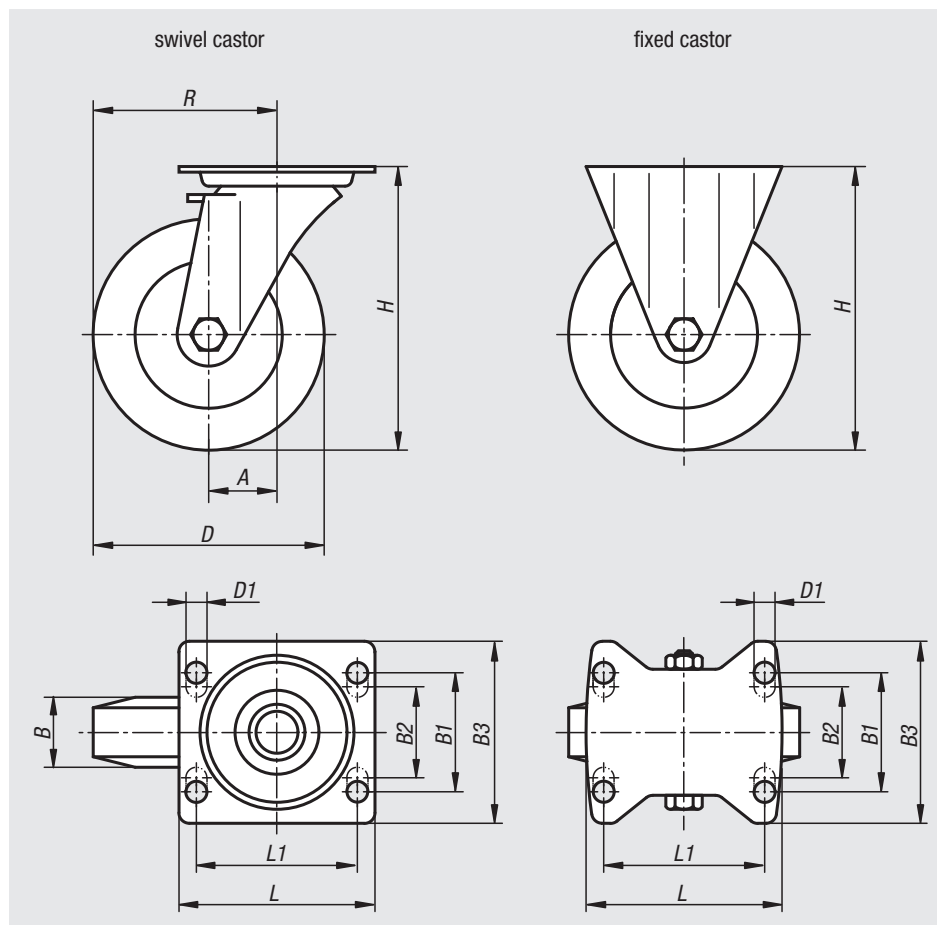
Housing press formed.
Double ball bearing with ball shield in the castor head.
Plain bearings in the wheels.

Sample order:

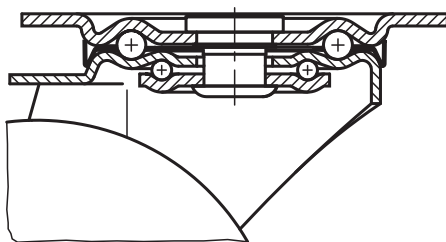
nlm 95034-10037

Note:

The PA 6 wheels have a low rolling resistance, are non-corroding, resist abrasion and are particularly shock and impact proof.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95034-075321	95034-07532	95034-075322	plain bearing	-/35/35	32	60	-	85	75	9
95034-100371	95034-10037	95034-100372	plain bearing	-/35/35	37	60	-	85	100	9
95034-125401	95034-12540	95034-125402	plain bearing	-/40/40	40	60	-	85	125	9
95034-150501	95034-15050	95034-150502	plain bearing	-/60/60	50	80	75	110	150	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95034-075321	95034-07532	95034-075322	plain bearing	98	100	80/105	-/72,5/72,5	200
95034-100371	95034-10037	95034-100372	plain bearing	125	100	80/105	-/85/85	200
95034-125401	95034-12540	95034-125402	plain bearing	150	100	80/105	-/102,5/102,5	200
95034-150501	95034-15050	95034-150502	plain bearing	190	140	80/105	-/135/135	400

Swivel and fixed castors

heavy-duty version



Material:

Housing thick steel plate.
Wheels PA 6.

Version:

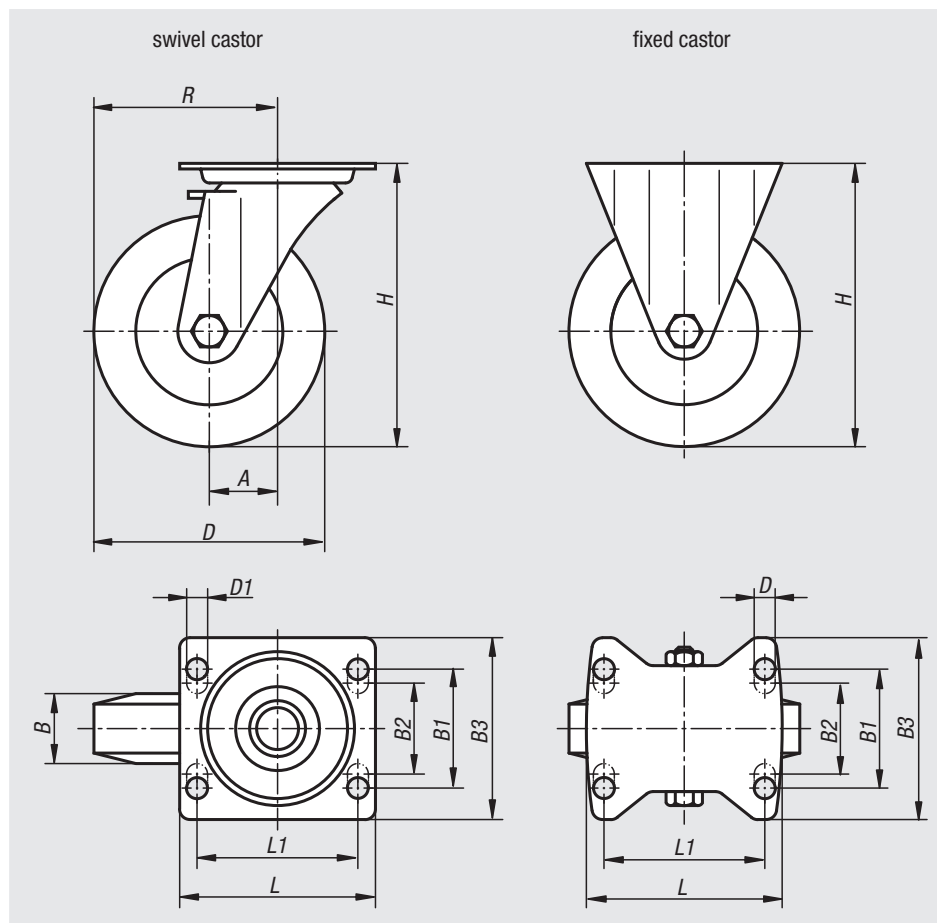
Housing press formed.
Swivel castor housing with strong fork and base plate, very robust centre pin bolted and secured.
The swivel head is additionally reinforced with specially formed and hardened bearing shells.
Plain bearings in the wheels.

Sample order:

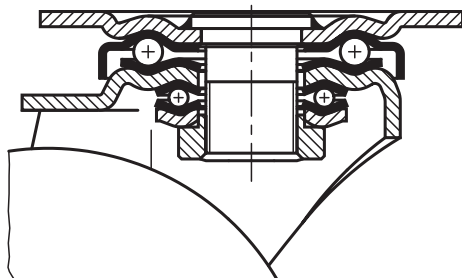
nlm 95036-12540

Note:

Wheel axle bolted. The wheels are particularly shock and impact proof and have high abrasion resistance.



swivel head bearing



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95036-100371	95036-10037	95036-100372	plain bearing	-/45/45	37	60	-	85	100	9
95036-125401	95036-12540	95036-125402	plain bearing	-/45/45	40	60	-	85	125	9
95036-150501	95036-15050	95036-150502	plain bearing	-/65/65	50	80	75	110	150	11
95036-200501	95036-20050	95036-200502	plain bearing	-/70/70	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95036-100371	95036-10037	95036-100372	plain bearing	140	100	80	-/95/95	280
95036-125401	95036-12540	95036-125402	plain bearing	165	100	80	-/107,5/107,5	300
95036-150501	95036-15050	95036-150502	plain bearing	197	140	105	-/140/140	400
95036-200501	95036-20050	95036-200502	plain bearing	245	140	105	-/170/170	600

Swivel and fixed castors

heavy-duty version



Material:

Housing thick steel plate.
Wheels high-quality PA 6.

Version:

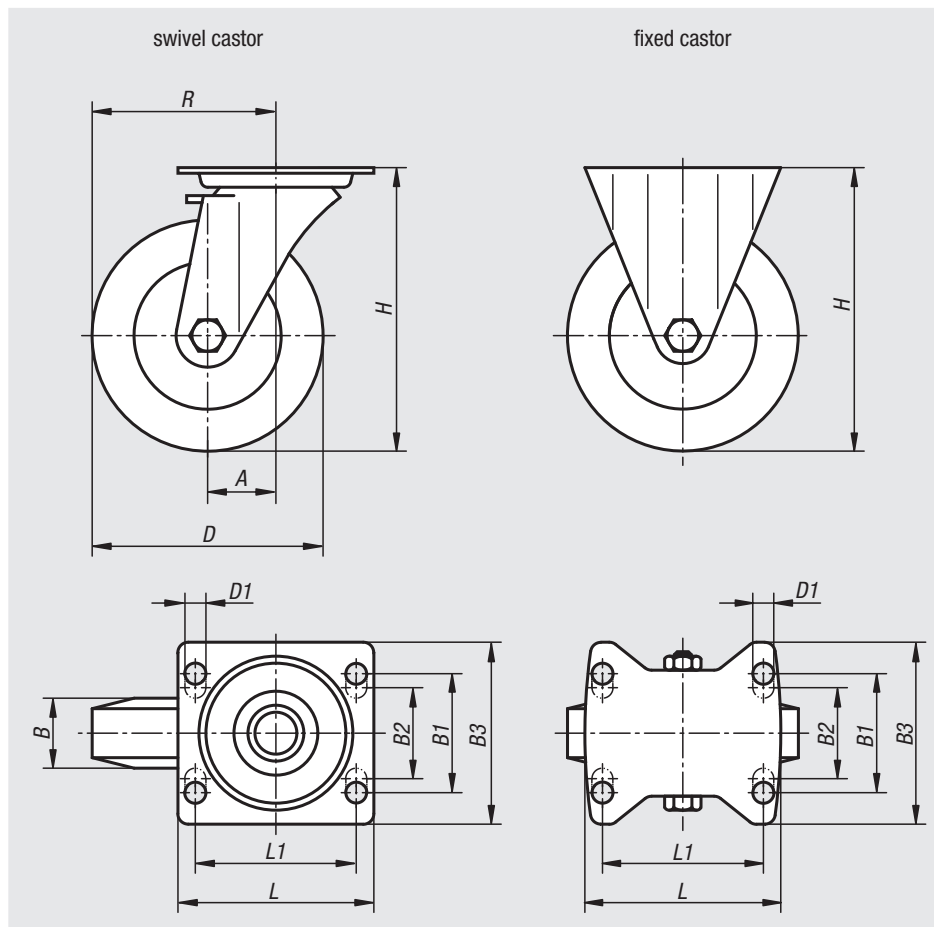
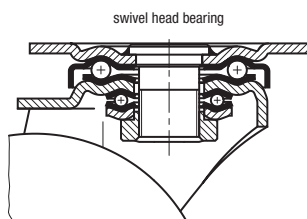
Housing press formed.
Swivel castor housing with strong fork and base plate, very robust centre pin bolted and secured. The swivel head is additionally reinforced with specially formed and hardened bearing shells.

Sample order:

nlm 95040-10037

Note:

The hardened bearing shells make these castors particularly shock and impact proof. The wheels have high abrasion resistance. Wheel axle bolted.



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95040-075321	95040-07532	95040-075322	plain bearing	-/45/45	32	60	-	85	75	9
95040-075324	95040-075323	95040-075325	ball bearing	-/45/45	32	60	-	85	75	9
95040-100371	95040-10037	95040-100372	plain bearing	-/45/45	37	60	-	85	100	9
95040-100374	95040-100373	95040-100375	ball bearing	-/45/45	37	60	-	85	100	9
95040-125401	95040-12540	95040-125402	plain bearing	-/45/45	40	60	-	85	125	9
95040-125404	95040-125403	95040-125405	ball bearing	-/45/45	40	60	-	85	125	9
95040-150501	95040-15050	95040-150502	plain bearing	-/65/65	50	80	75	110	150	11
95040-150504	95040-150503	95040-150505	ball bearing	-/65/65	50	80	75	110	150	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
95040-075321	95040-07532	95040-075322	plain bearing	118	100	80	-/82,5/82,5	300
95040-075324	95040-075323	95040-075325	ball bearing	118	100	80	-/82,5/82,5	300
95040-100371	95040-10037	95040-100372	plain bearing	140	100	80	-/95/95	500
95040-100374	95040-100373	95040-100375	ball bearing	140	100	80	-/95/95	500
95040-125401	95040-12540	95040-125402	plain bearing	165	100	80	-/107,5/107,5	700
95040-125404	95040-125403	95040-125405	ball bearing	165	100	80	-/107,5/107,5	700
95040-150501	95040-15050	95040-150502	plain bearing	197	140	105	-/140/140	800
95040-150504	95040-150503	95040-150505	ball bearing	197	140	105	-/140/140	800

Swivel and fixed castors

stainless steel, standard version



Material:

Housing stainless steel 1.4301.

Wheels high-quality unbreakable polyamide.

Version:

Housing press formed.

Double ball bearing in the castor head.

Plain bearing in wheels.

Sample order:

nIm 95041-211000371

Note:

Wheel axle bolted.

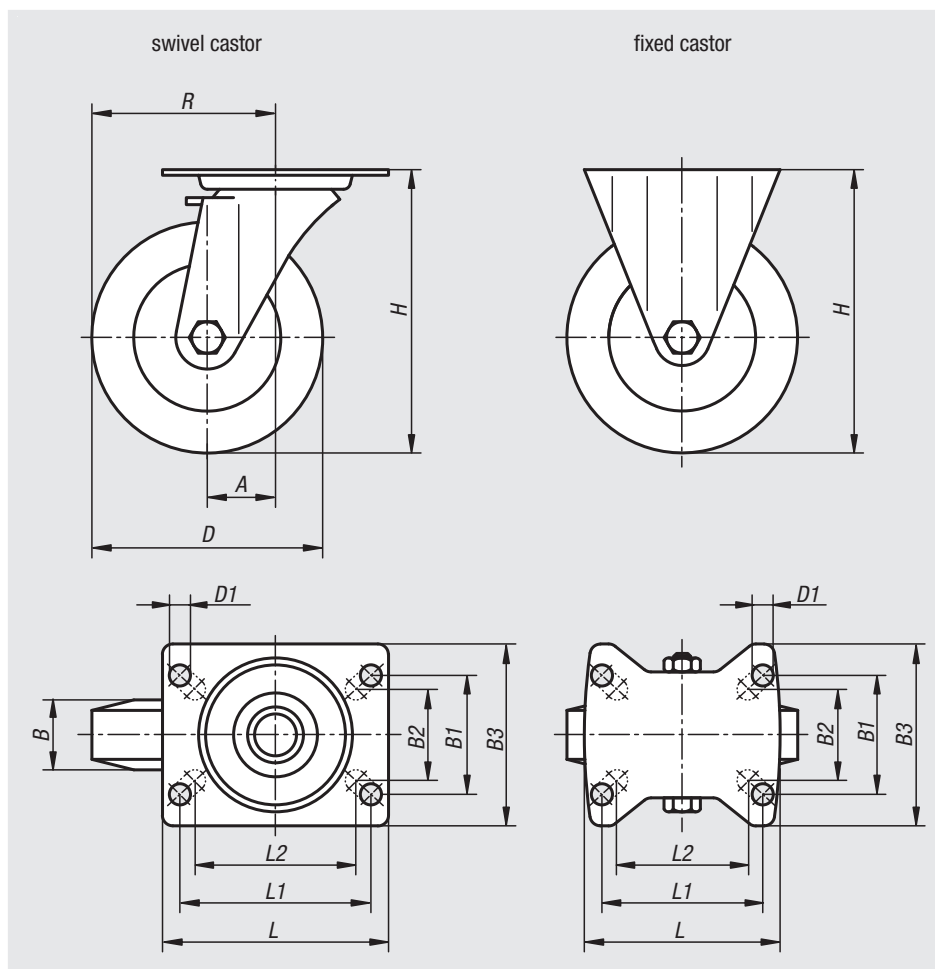
Swivel and fixed castors with mounting plate.

Vibratory ground surface.

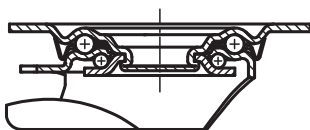
Stainless.

Temperature range:

-25 °C to +80 °C.



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95041-210750321	95041-21075032	95041-210750322	plain bearing	-/38/38	32	60	55	85	75	9
95041-211000371	95041-21100037	95041-211000372	plain bearing	-/36/36	37	60	55	85	100	9
95041-211250401	95041-21125040	95041-211250402	plain bearing	-/40/40	40	60	55	85	125	9
95041-211500501	95041-21150050	95041-211500502	plain bearing	-/54/54	50	80	75	110	150	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
95041-210750321	95041-21075032	95041-210750322	plain bearing	100	100	80	76	-/75,5/75,5	150
95041-211000371	95041-21100037	95041-211000372	plain bearing	125	100	80	76	-/86/86	150
95041-211250401	95041-21125040	95041-211250402	plain bearing	150	100	80	76	-/102,5/102,5	150
95041-211500501	95041-21150050	95041-211500502	plain bearing	190	140	105	-	-/129/129	300

Swivel castors

compact version



Material:

Housing steel plate, trivalent blue passivated.
Roller light brown polyurethane, Shore 92 A
or white polyamide, Shore 80 D.

Version:

Housing press formed.
Swivel castor housing with 2x ball bearing in the swivel head and ball shield.
Roller with two pressed-in ball bearings.

Sample order:

nIm 95045-0352701

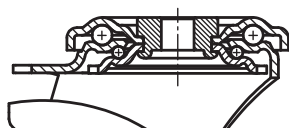
Note:

Wheel axle bolted.

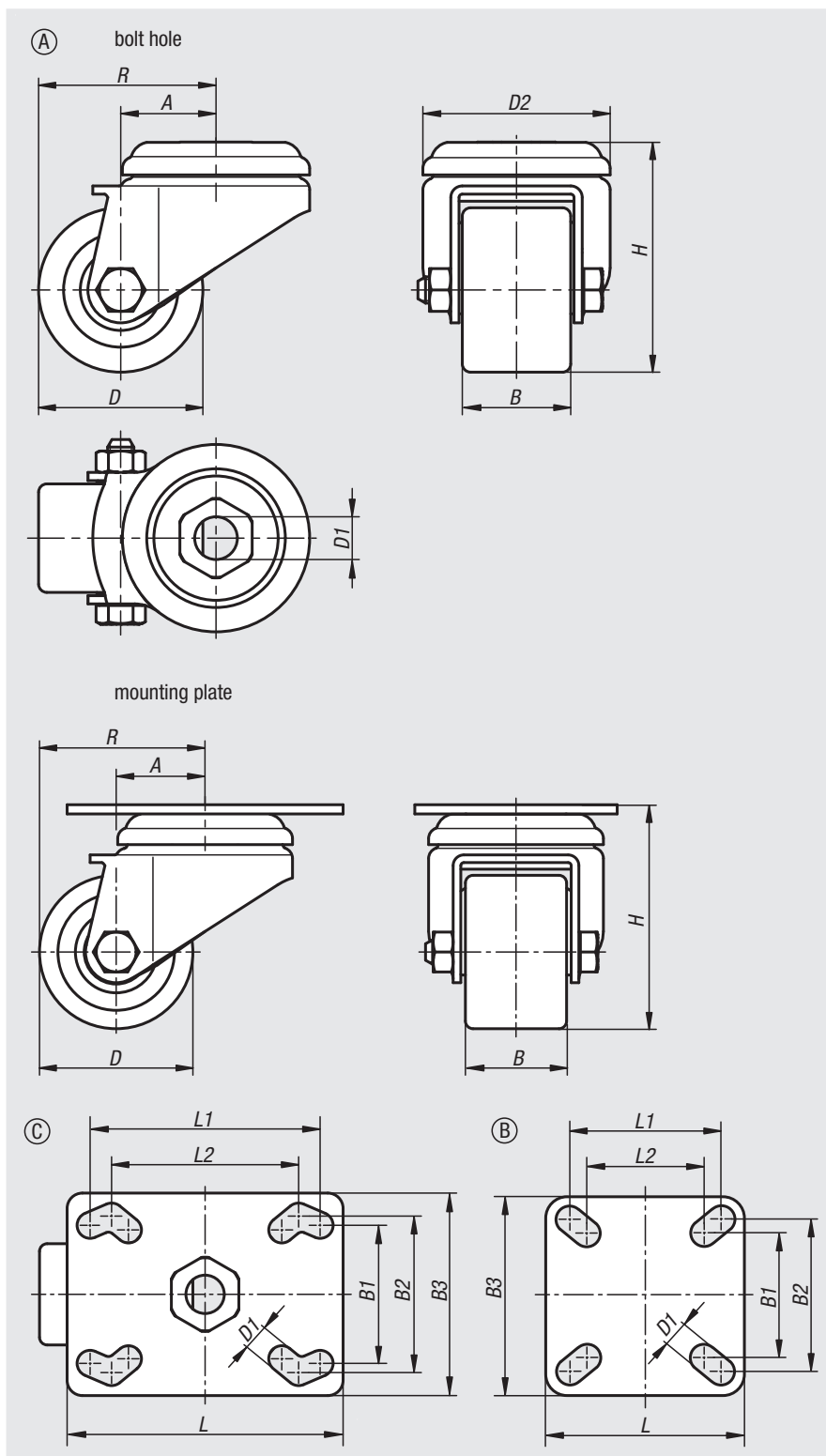
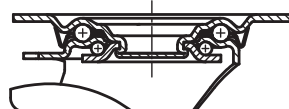
Polyurethane roller: low-noise, low rolling resistance, elastic, floor-protecting, very wear resistant, non-staining.

Polyamide roller: very low roll and pivot resistance, smooth running on smooth floors, very wear resistant.

Swivel head bearing:
bolt hole



Swivel head bearing:
mounting plate



Swivel castors

compact version

Order No.	Form	Item	Version 1	Wheel bearing	Material roller	A	B	B1	B2	B3	D	D1
95045-0352701	A	Swivel Castor	without locking system	ball bearing	polyurethane	15	27	-	-	-	35	11
95045-0352802	A	Swivel Castor	without locking system	ball bearing	polyamide	15	28	-	-	-	35	11
95045-0503301	A	Swivel Castor	without locking system	ball bearing	polyurethane	29	33	-	-	-	50	13
95045-0503202	A	Swivel Castor	without locking system	ball bearing	polyamide	29	32	-	-	-	50	13
95045-0352711	B	Swivel Castor	without locking system	ball bearing	polyurethane	15	27	38	48	60	35	6,2
95045-0352812	B	Swivel Castor	without locking system	ball bearing	polyamide	15	28	38	48	60	35	6,2
95045-0503311	C	Swivel Castor	without locking system	ball bearing	polyurethane	29	33	45	51	66	50	8,5
95045-0503212	C	Swivel Castor	without locking system	ball bearing	polyamide	29	32	45	51	66	50	8,5

Order No.	Form	Item	Version 1	Wheel bearing	Material roller	D2	H	L	L1	L2	R	Permissible load kg
95045-0352701	A	Swivel Castor	without locking system	ball bearing	polyurethane	43	50	-	-	-	32,5	100
95045-0352802	A	Swivel Castor	without locking system	ball bearing	polyamide	43	50	-	-	-	32,5	100
95045-0503301	A	Swivel Castor	without locking system	ball bearing	polyurethane	57	70	-	-	-	54	150
95045-0503202	A	Swivel Castor	without locking system	ball bearing	polyamide	57	70	-	-	-	54	150
95045-0352711	B	Swivel Castor	without locking system	ball bearing	polyurethane	-	52	60	48	38	32,5	100
95045-0352812	B	Swivel Castor	without locking system	ball bearing	polyamide	-	52	60	48	38	32,5	100
95045-0503311	C	Swivel Castor	without locking system	ball bearing	polyurethane	-	73	90	75	61	54	150
95045-0503212	C	Swivel Castor	without locking system	ball bearing	polyamide	-	73	90	75	61	54	150

Swivel and fixed castors

steel plate, for sterile areas



Material:

Housing, steel plate.
Wheel rim, high-quality thermoplastic polyurethane.
Wheel tread, high-quality polyamide.

Version:

Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

nIm 95046-111250401

Note:

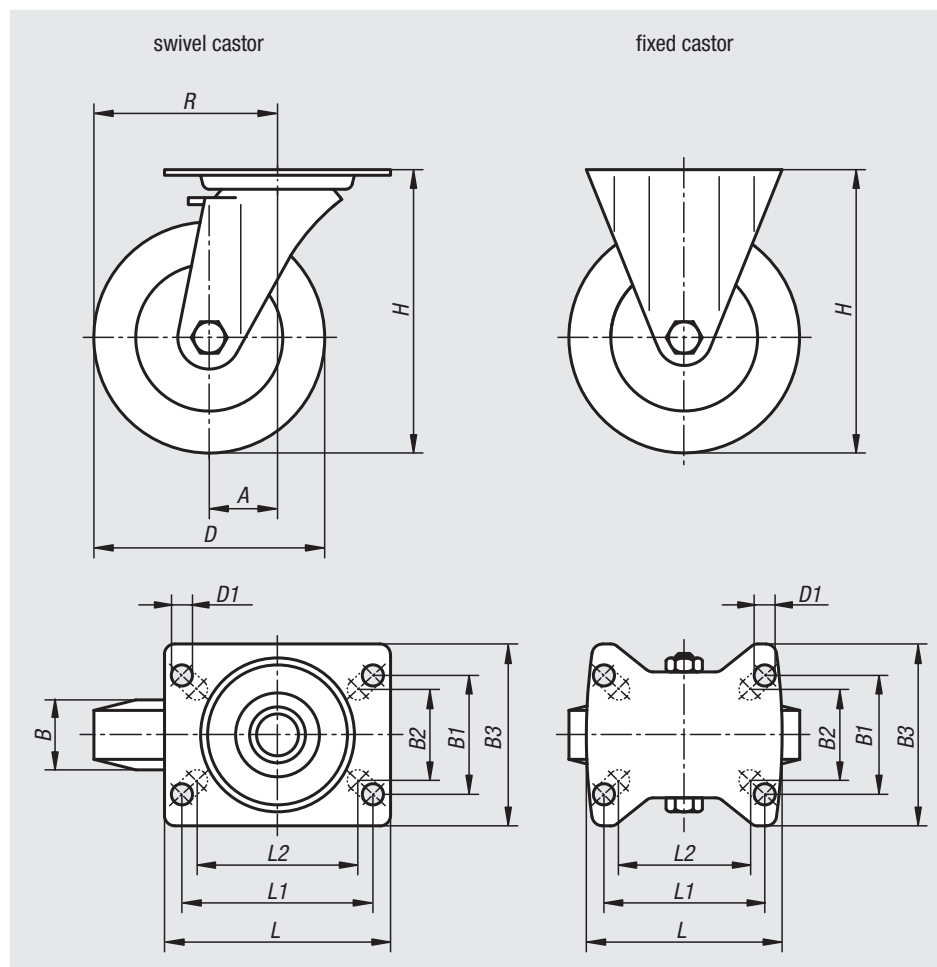
Wheel axle bolted.
Swivel and fixed castors with mounting plate.

Application:

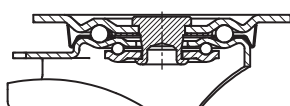
Loads can be transported with low noise and maximum ease in area's with high hygiene requirements.

Temperature range:

-20°C to +70°C.



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95046-111000351	95046-11100035	95046-111000352	plain bearing	-/36/36	35	60	55	85	100	9
95046-111250401	95046-11125040	95046-111250402	plain bearing	-/40/40	40	60	55	85	125	9
95046-111600451	95046-11160045	95046-111600452	plain bearing	-/60/60	45	80	75	110	160	11
95046-112000501	95046-11200050	95046-112000502	plain bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
95046-111000351	95046-11100035	95046-111000352	plain bearing	125	100	80	76	-/86/86	200
95046-111250401	95046-11125040	95046-111250402	plain bearing	150	100	80	76	-/102,5/102,5	250
95046-111600451	95046-11160045	95046-111600452	plain bearing	195	140	105	-	-/140/140	400
95046-112000501	95046-11200050	95046-112000502	plain bearing	235	140	105	-	-/165/165	400

Swivel and fixed castors

stainless steel, for sterile areas



Material:

Housing stainless steel 1.4301.
Wheel rim, high-quality thermoplastic polyurethane.
Wheel tread, high-quality polyamide.

Version:

Housing press formed.
Double ball bearing in the castor head.
Plain bearing in wheels.

Sample order:

nlm 95046-111250401

Note:

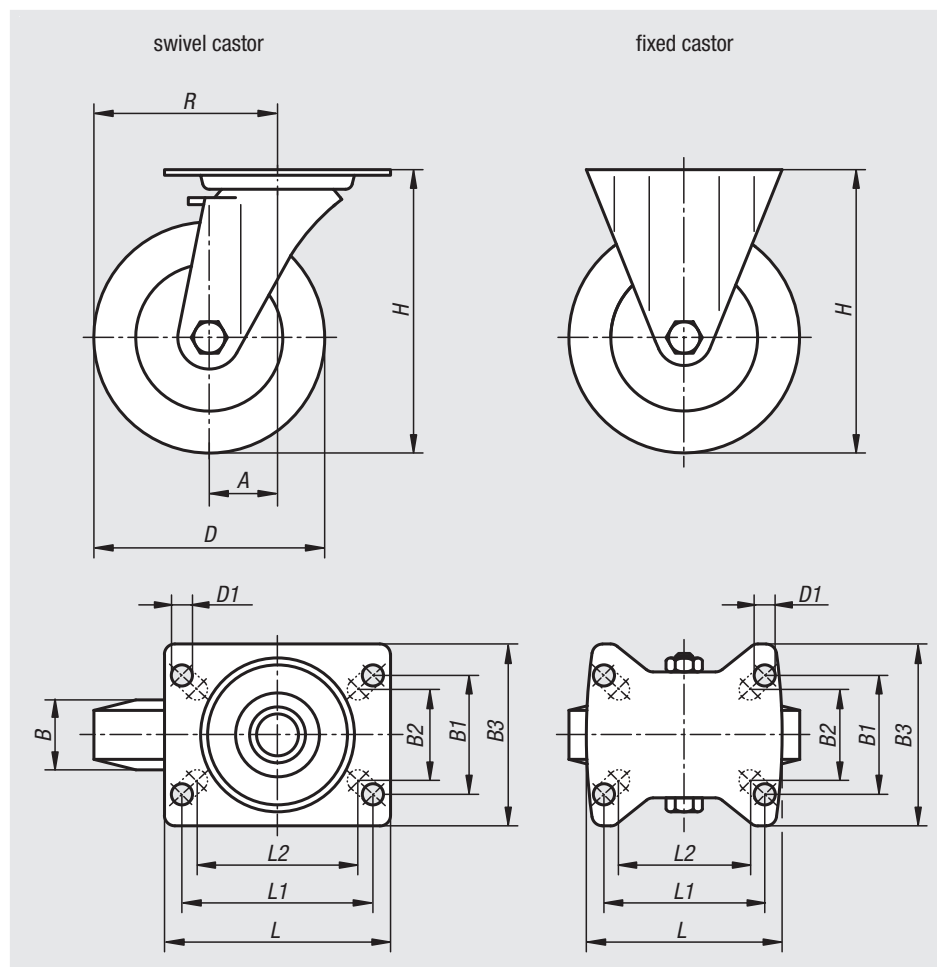
Wheel axle bolted.
Swivel and fixed castors with mounting plate.

Application:

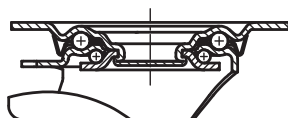
Loads can be transported with low noise and maximum ease in area's with high hygiene requirements.

Temperature range:

-20°C to +70°C.



swivel head bearing:



Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
95046-01-211000351	95046-01-21100035	95046-01-211000352	plain bearing	-/30/30	35	60	55	85	100	9
95046-01-211250401	95046-01-21125040	95046-01-211250402	plain bearing	-/40/40	40	60	55	85	125	9
95046-01-211600451	95046-01-21160045	95046-01-211600452	plain bearing	-/60/60	45	80	75	110	160	11
95046-01-212000501	95046-01-21200050	95046-01-212000502	plain bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
95046-01-211000351	95046-01-21100035	95046-01-211000352	plain bearing	125	100	80	76	-/80/80	200
95046-01-211250401	95046-01-21125040	95046-01-211250402	plain bearing	150	100	80	76	-/102,5/102,5	250
95046-01-211600451	95046-01-21160045	95046-01-211600452	plain bearing	195	140	105	-	-/140/140	400
95046-01-212000501	95046-01-21200050	95046-01-212000502	plain bearing	235	140	105	-	-/165/165	400

Swivel castors with bolt hole

stainless steel, for sterile areas



Material:

Housing stainless steel 1.4301.

Wheel rim, high-quality thermoplastic polyurethane.

Wheel tread, high-quality polyamide.

Version:

Housing press formed.

Double ball bearing in the castor head.

Plain bearing in wheels.

Sample order:

nIm 95046-02-21125040

Note:

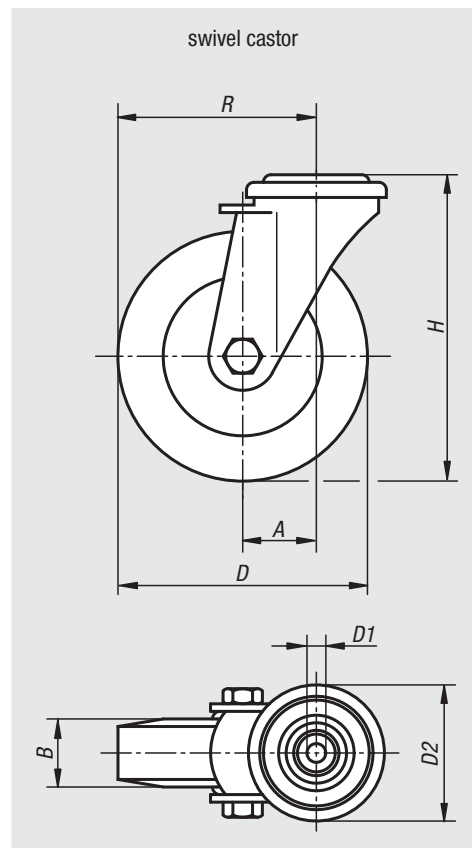
Wheel axle bolted.

Application:

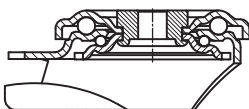
Loads can be transported with low noise and maximum ease in area's with high hygiene requirements.

Temperature range:

-20°C to +70°C.



swivel head bearing:



Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
95046-02-21100035	95046-02-211000352	plain bearing	36/36	35	100	13	70	125	86/86	150
95046-02-21125040	95046-02-211250402	plain bearing	40/40	40	125	13	70	150	102,5/102,5	150
95046-02-21160045	95046-02-211600452	plain bearing	54/54	45	160	13	88	195	134/134	300
95046-02-21200050	95046-02-212000502	plain bearing	54/54	50	200	13	88	235	154/154	300

Wheels

rubber tyres on steel plate rims



Material:

Rim steel plate.
Tyre solid rubber.

Version:

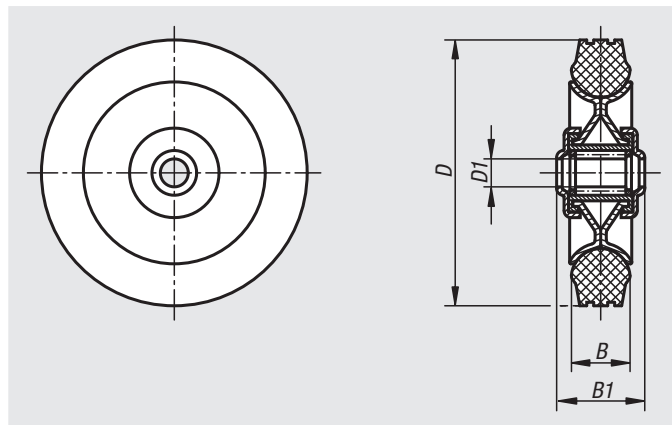
Rims trivalent passivated.
Tyres black.

Sample order:

nIm 95050-14038

Note:

This special rim design is exceptionally ridged even with extreme shocks and impacts. Low rolling resistance.
Temperature resistant from -30 °C to +80 °C.
Suitable for 95016.



Order No.	D	D1	B	B1	Permissible load kg
95050-08025	80	12	25	35	50
95050-10030	100	15	30	45	70
95050-12538	125	15	37,5	45	100
95050-14038	140	15	37,5	45	115
95050-16040	160	20	40	60	135
95050-18050	180	20	50	60	170
95050-20050	200	20	50	60	205

Wheels

rubber tyres on die-cast aluminium rims


Material:

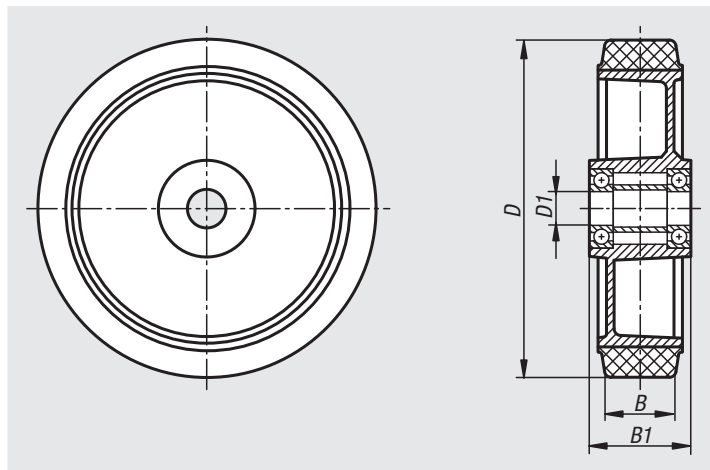
Wheel rims die-cast aluminium.
Tyre elastic solid rubber.

Sample order:

nlm 95053-200501

Note:

The tyre is vulcanised onto the rim. Wheels with elastic solid rubber tyres have a high wear resistance, low rolling resistance and excellent drive comfort.
Application temperature from -30 °C to +80 °C.
These wheels are used as the front wheels on fork-lift trucks.
Other sizes on request.



Order No.	D	D1	B	B1	Permissible load kg
95053-200501	200	20	35	60	450

Wheels

polyamide with injection-moulded tread


Material:

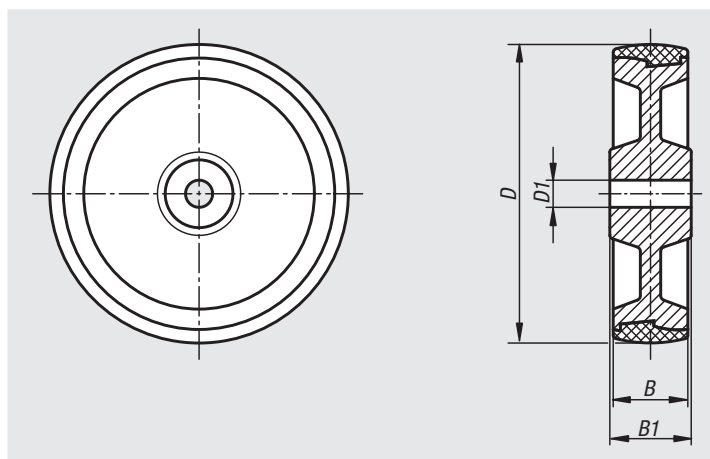
Wheel body PA.
Tread thermoplastic polyurethane elastomer.

Sample order:

nlm 95056-12535

Note:

Wheels with polyurethane tread have a high load capacity, resist abrasion, are gentle to floors, absorb shocks and vibration and are resistant to many chemicals and acids.
Temperature resistant from -30 °C to +80 °C.
Suitable as replacement rollers for the castors 95024.



Order No.	D	D1	B	B1	Permissible load kg
95056-10035	100	15	35	45	200
95056-12535	125	15	35	45	250
95056-15040	150	20	40	60	400
95056-20050	200	20	50	60	700

Guide rollers


Material:

Tread light brown Extrathane® Shore 92A or white polyamide 6 Shore 80D.

Sample order:

nlm 95057-05015

Note:

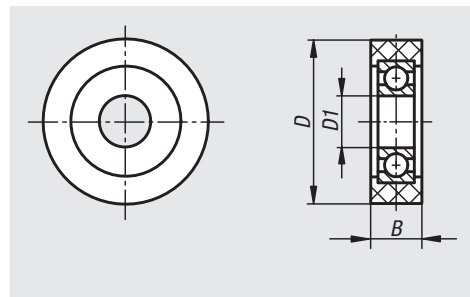
The tread is firmly bonded onto a ball bearing.

Extrathane tread: quiet running, low roll resistance, elastic, gentle on floors, very wear resistant, high cut and tear resistance, non-marking, non-staining.

Polyamide 6 tread: unbreakable, very low roll resistance, light running on smooth floors, very wear resistant.

Uses: conveyor belts, doors, etc.

Other sizes on request.



Order No.	Version 1	Material tread	Wheel bearing	D	D1	B	Ball bearing	Permissible load kg
95057-03008	without locking system	extrathane	ball bearing	30	6	8	626 2RS	20
95057-03514	without locking system	extrathane	ball bearing	35	12	14	6001 2RS	40
95057-04020	without locking system	extrathane	ball bearing	40	10	20	6000 2RS	40
95057-05015	without locking system	extrathane	ball bearing	50	10	15	6200 2RS	60
95057-06020	without locking system	extrathane	ball bearing	60	17	20	6203 2RS	90
95057-07020	without locking system	extrathane	ball bearing	70	25	20	6205 2RS	125
95057-030081	without locking system	polyamide 6	ball bearing	30	6	8	626 2RS	35
95057-035111	without locking system	polyamide 6	ball bearing	35	8	11	608 2RS	55
95057-040201	without locking system	polyamide 6	ball bearing	40	10	20	6200 2RS	100
95057-050151	without locking system	polyamide 6	ball bearing	50	10	15	6200 2RS	100
95057-060201	without locking system	polyamide 6	ball bearing	60	17	20	6203 2RS	165
95057-070201	without locking system	polyamide 6	ball bearing	70	25	20	6205 2RS	185

Wheels

aluminium rims with injection-moulded tread


Material:

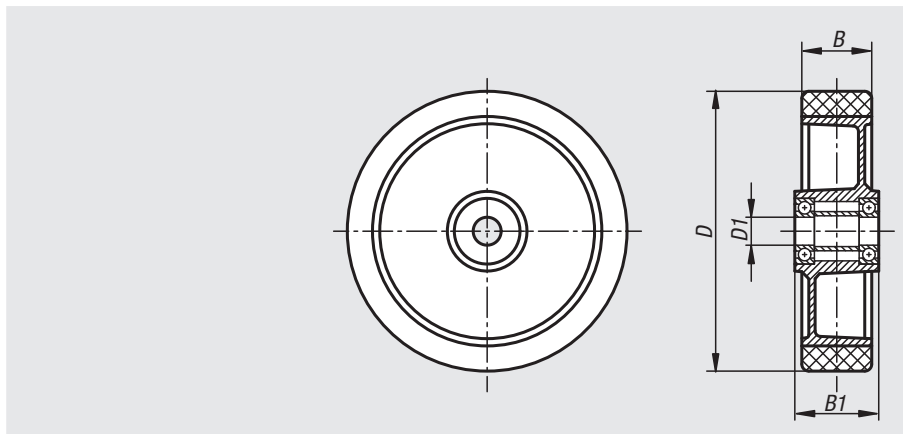
Wheel rim die-cast aluminium.
Tread Extrathane®.

Sample order:

nIm 95058-12540

Note:

These wheels are elastic, abrasion-resistant, gentle to floors, low-noise and have low roll resistance.
Suitable as replacement rollers for castors 95028.



Order No.	D	D1	B	B1	Permissible load kg
95058-10040	100	15	40	45	250
95058-12540	125	15	40	45	350
95058-16050	160	20	50	60	550
95058-18050	180	20	50	60	600
95058-20050	200	20	50	60	800

Rollers heavy-load


Material:

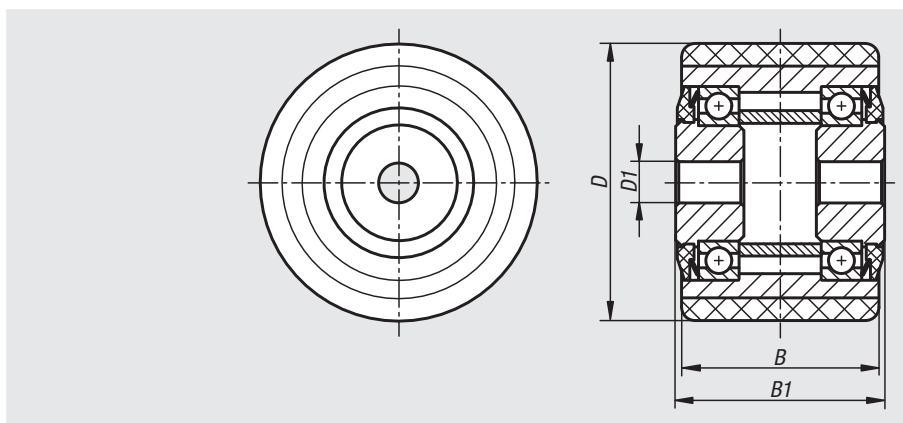
Wheel body steel tube with ball bearing.
Tread Extrathane® 92 Shore A.

Sample order:

nIm 95059-0857520

Note:

The ball bearing is splashproof. The tread is firmly bonded. These rollers resist abrasion, are non-staining, gentle to floors, low-noise, elastic, have low roll resistance and have a particularly high elastic restoration after long standing high cut and tear resistance.
Uses: pallet trucks, forklift, etc.
Other sizes on request.



Order No.	D	D1	B	B1	Permissible load kg
95059-0856020	85	20	60	65	450
95059-0856025	85	25	60	65	450
95059-0857520	85	20	75	80	570
95059-0857525	85	25	75	80	570
95059-0859525	85	25	95	100	720

Wheels heavy-load

wheel body welded



Material:

Wheel body welded steel construction.
Tread Extrathane®.

Sample order:

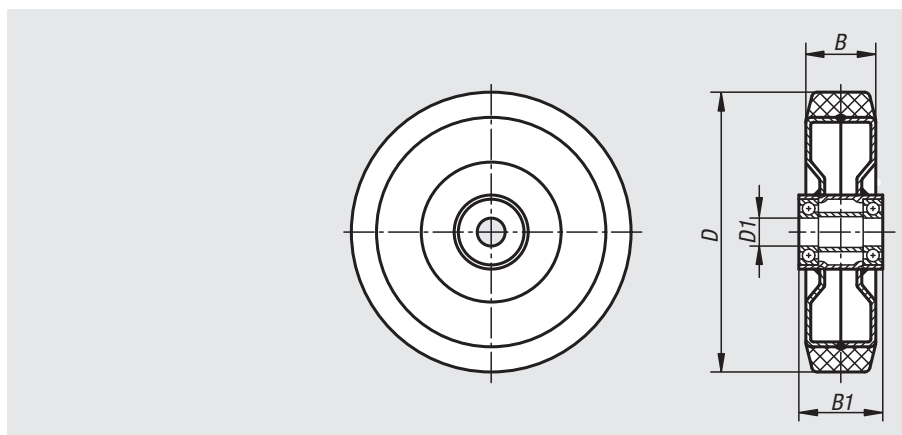
nln 95060-16050

Note:

Extrathane treads are elastic, resist abrasion, gentle to floors, low-noise and have particularly high elastic restoration after long standing.

Application temperature from -40 °C to +80 °C.

Suitable as replacement rollers for the castors 95030 and 95032.



Order No.	D	D1	B	B1	Permissible load kg
95060-12550	125	20	50	60	500
95060-16050	160	20	50	60	700
95060-20050	200	20	50	60	1000
95060-25060	250	25	60	70	1350

Wheels polyamide



Material:

Polyamide

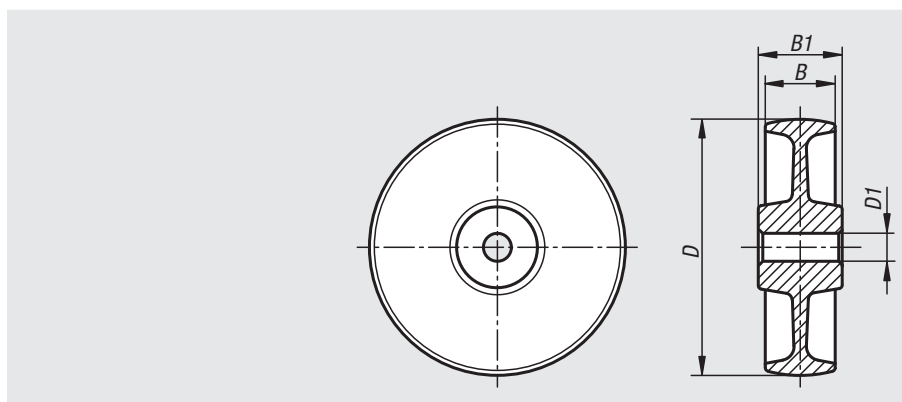
Sample order:

nln 95062-12540

Note:

Polyamide wheels are unbreakable, non-corroding, shock and impact proof and chemical resistant. They also have high abrasion resistance and low roll resistance.

Other sizes or with ball bearing on request.



Order No.	D	D1	B	B1	Permissible load kg
95062-07532	75	12	32	35	200
95062-10037	100	15	37	45	280
95062-12540	125	15	40	45	300
95062-15050	150	20	50	60	400
95062-20050	200	20	50	60	600

Wheels polyamide

heavy-duty version


Material:

Polyamide.

Sample order:

nIm 95064-10037

Note:

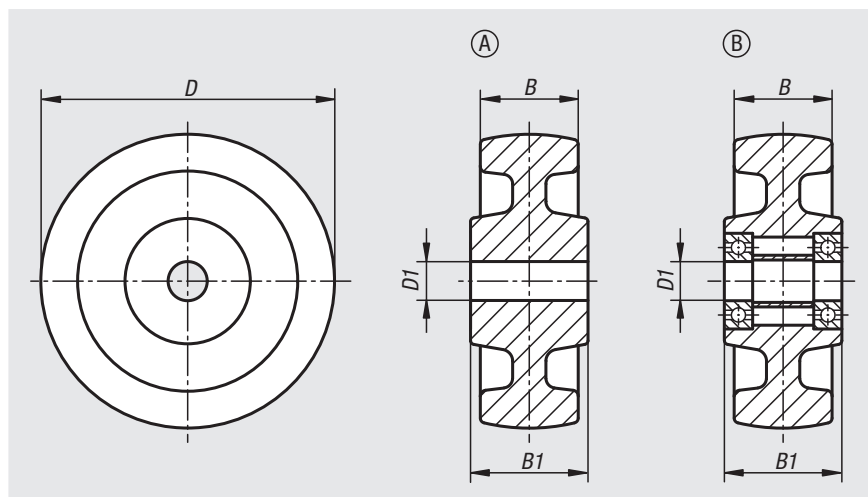
Polyamide wheels are unbreakable, non-corroding, shock and impact proof and chemical resistant. They also have high abrasion resistance and low roll resistance.

Suitable as replacement rollers for the castors 95040.

Drawing reference:

Form A: plain bearing

Form B: ball bearing



Order No.	Form	Form-Type	D	D1	B	B1	Permissible load kg
95064-07532	A	plain bearing	75	12	32	35	300
95064-10037	A	plain bearing	100	15	37	45	500
95064-12540	A	plain bearing	125	15	40	45	700
95064-15050	A	plain bearing	150	20	50	60	800
95064-20050	A	plain bearing	200	20	50	60	1500
95064-25065	A	plain bearing	250	25	65	70	2000
95064-075321	B	ball bearing	75	15	32	35	300
95064-100371	B	ball bearing	100	15	37	45	500
95064-125401	B	ball bearing	125	20	40	45	700
95064-150501	B	ball bearing	150	20	50	60	800
95064-200501	B	ball bearing	200	25	50	60	1500
95064-250651	B	ball bearing	250	25	65	65	2000

Thermoset wheels

heat-resistant


Material:

Thermoset PF.

Version:

Hardness Shore 90D, black.

Notch impact strength ca. 2.5 kJ/m².

Sample order:

nIm 95065-07528

Note:

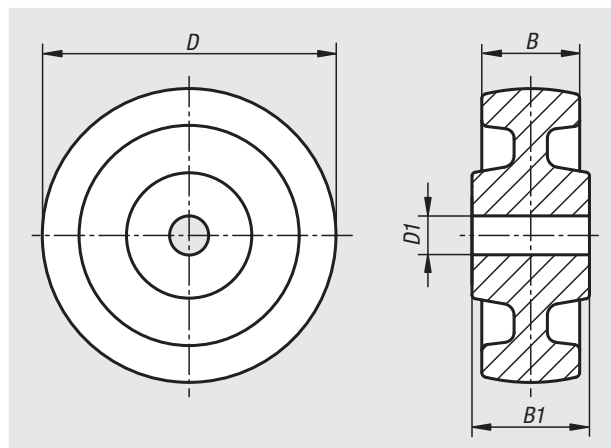
Thermoset wheels for high-heat sectors, with exceptional running characteristics on smooth floors.

Excellent chemical resistance to many aggressive types of media. Typical uses are in hot plants, paint shops, bakers and smoking ovens.

Higher abrasion is unavoidable on rough floors. Running against curbs or bumps should be avoided due to the limited mechanical durability of phenolic resin.

Temperature range:

-35°C to +260°C, short-term up to +300°C.



Order No.	D	D1	B	B1	Permissible load kg
95065-07528	75	8,4	28	31	100
95065-10030	100	15,2	30	40	150
95065-10038	100	15,2	38	42	200
95065-12546	125	20,2	46	58	275
95065-15050	150	20,2	50	58	300
95065-20050	200	20,2	50	60	350
95065-25050	250	20,2	50	58	350

Elevating castors with foot

with bolt hole or mounting plate



Material:

Housing die-cast aluminium.
Roller break resistant polyamide 6, Shore 70D.
Foot hard rubber.

Version:

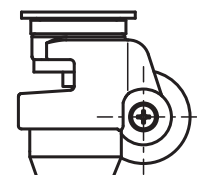
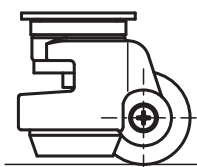
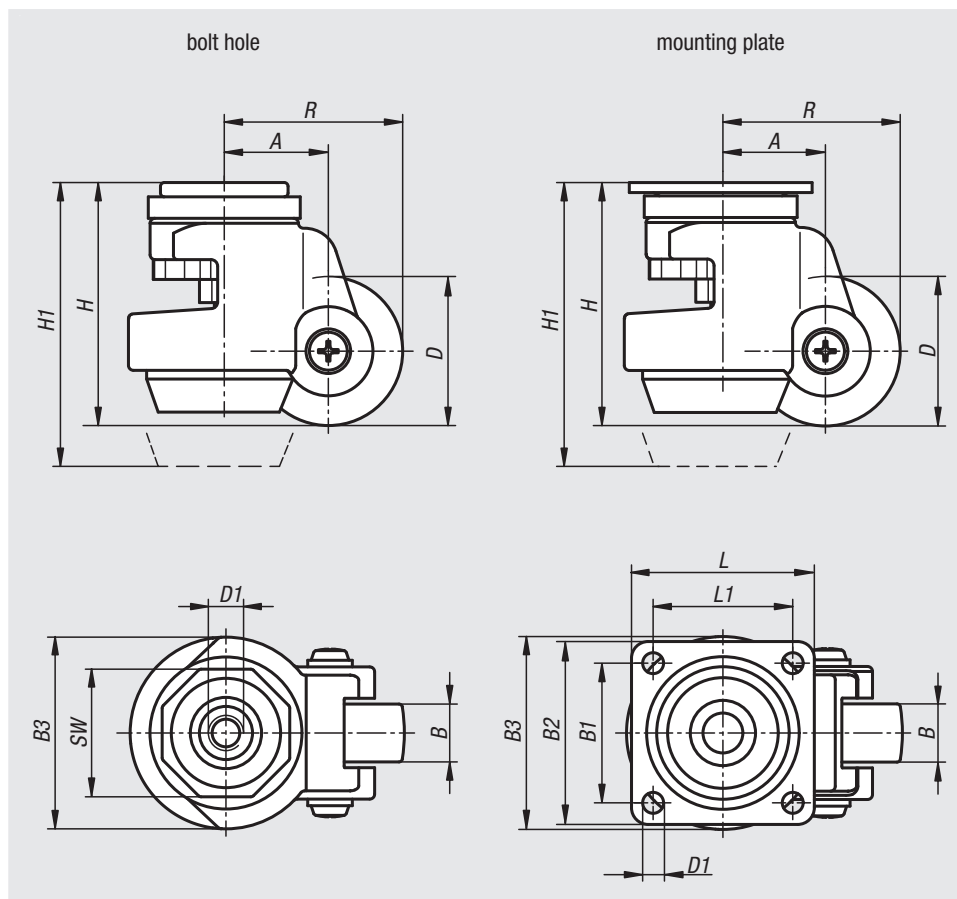
Housing, powder-coated, ivory.
Steel parts trivalent blue passivated.
Roller and foot black.

Sample order:

nIm 95090-045180

Note:

Elevating castor with foot. With sealed ball bearing in the swivel head. Height adjustment with a 13 mm spanner or by the integrated adjustment screw. Wheel axle bolted.



Order No.	Version 1	Wheel bearing	D	D1	A	B	B1	B3	H	H1	L	L1	R	SW	Permissible load kg
95090-045180	with locking system	plain bearing	45	M8x12	32	18	-	58	72	82	-	-	54,5	40	180
95090-050220	with locking system	plain bearing	50	M12x15	38	22	-	72	84	94	-	-	63	46	250
95090-063290	with locking system	plain bearing	63	M12x15	46	29	-	85	104	119	-	-	77,5	65	500
95090-045181	with locking system	plain bearing	45	7	32	18	42	58	72	82	55	42	54,5	-	180
95090-050221	with locking system	plain bearing	50	7	38	22	58	72	84	94	73	58	63	-	250
95090-063291	with locking system	plain bearing	63	9	46	29	70	85	104	119	90	70	77,5	-	500

Elevating castors

with integrated machine foot



Material:

Housing steel plate.

Roller break resistant polyamide 6, Shore 70D.

Machine foot steel.

Version:

Housing trivalent blue passivated.

Roller white.

Machine foot electro zinc-plated with grey rubber pads.

Sample order:

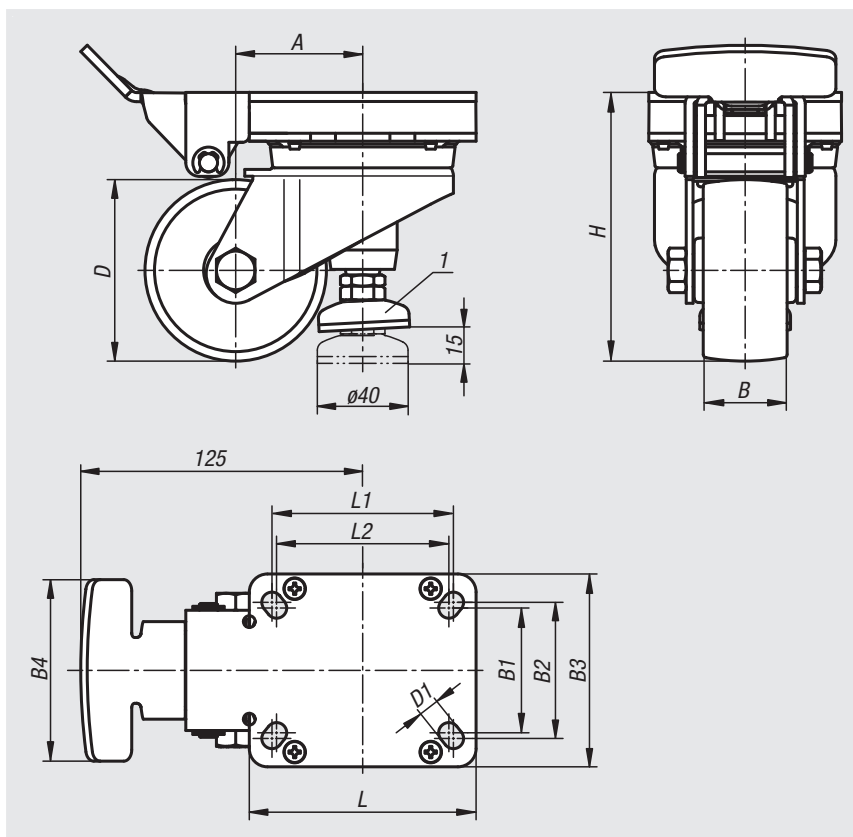
nIm 95092-08037

Note:

Elevating castor swivel version with integrated levelling machine foot. With sealed ball bearing in the swivel head. Wheel axle bolted. The ergonomic form of the non-swivelling actuating lever enables ease of operation. The short actuation travel with simultaneous long plunger stroke and very high lifting force enables heavy weights to be easily raised and safely fixated.

Drawing reference:

1) swivelling



Order No.	Version 1	Wheel bearing	D	A	B	B1	B2	B3	B4	D1	H	L	L1	L2	Permissible load kg
95092-08037	with locking system	plain bearing	80	56	37	55	60	80	85	9	120	100	80	76	230
95092-10037	with locking system	plain bearing	100	65	37	55	60	80	85	9	142	100	80	76	230

Mounting instructions and specifications

Ball transfer units

Ball transfer units allow bulky goods to be easily transported, rotated and directed. They have long proven their worth in conveyor systems, feeder systems, machining centres and packaging plants.

Applications:

Conveyor technology

- ball pallets, rotary tables and sorting and distribution switch points
- crossing points in permanent conveyance systems
- Airport luggage sorting plants
- Steel pipe transport
- Lifting platforms

General machine shops

- Feed tables for sheetmetal handling machines
- Fixtures for bending machines
- Conveyors for machining centres
- Motor driven assembly aids in heavy engineering

Other applications

- Custom machine construction
- Aerospace technology
- Beverage production
- Stone processing

Ball transfer units have a steel housing with a hardened ball cup. This serves as the track for a number of small bearing balls. These bearing balls roll in the cup with the rotation of the load ball.

Ball transfer units are designed so that precise rolling and load carrying is guaranteed in all positions. Ball transfer units are low maintenance and almost all types have an oil soaked felt seal to protect from dirt.

Calculating the ball transfer unit loading

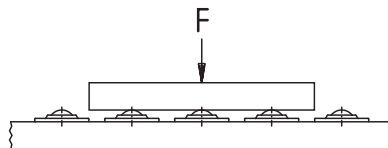
To calculate the loading for ball transfer units, divide the weight of the transported goods by 3. With good coordination of the load ball surface and, depending on the properties of the goods transported, the number of load bearing ball transfer units can also be calculated.

Example:

Weight of the transported goods = 300 kg

Ball transfer unit loading:

$$F = \frac{300 \text{ kg}}{3} = 100 \text{ kg}$$



Arrangement of the ball transfer units

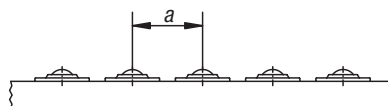
The arrangement of the ball transfer units depends on the surface area of the goods to be transported. By goods with a uniform, level surface area, such as the base of boxes, the distance between the ball transfer units is simply calculated from the length of the shortest edge divided by 2.5.

Example:

Surface area of goods
= 500 x 1000 mm

Distance between ball transfer units:

$$a = \frac{500 \text{ mm}}{2,5} = 200 \text{ mm}$$



Transport speed and load capacity

The recommended conveyance speed is 1 m/sec. With polyamid load balls 0.25 m/sec. The specified load rating applies to all mounting positions and relates to 106 revolutions of the load ball. By extended use in excess of 1 m/sec and depending on the loading, the temperature can be expected to rise and the useful life reduced, particularly with balls Ø60 to Ø90.

Calculating the lifespan

$$L = \left(\frac{C}{F} \right)^3 \cdot 10^6 \text{ revs}$$

L = lifespan

C = load rating (N)

F = loading (N)

Attention:

Use high temperature lubricant!

Follow manufacturer's instructions!

It is possible that the existing lubrication oil may have to be washed out.

Temperature load ball		Temperature factor fT
steel °C	polyamid °C	
125	40	0,9
150	50	0,8
175	60	0,7
-	70	0,6
200	80	0,5

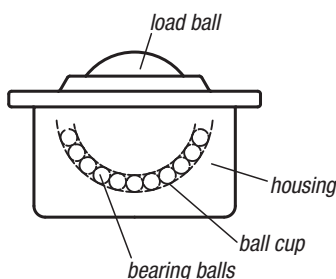
Temperature resistance

For ball transfer units with a felt seal the temperature resistance is 100 °C by constant temperature.

Only non-galvanised ball transfer units with a steel ball and no felt seal can be used at temperatures in excess of 100 °C. Note the load rating reduction! Multiply the load rating by the temperature factor (table).

Calculating the loading by undersprung ball transfer units.

For these types the determining factor is the value given in the "Pre-tension" column of the table. The weight of the transported goods is divided by the number of supporting ball transfer units.



Ball transfer units

with steel housing



Material:

Electro zinc-plated steel or stainless steel.

Sample order:

nln 95150-122

Note:

Ball transfer units with steel housing have a felt seal to protect against dirt.
95150-115 has no felt seal.

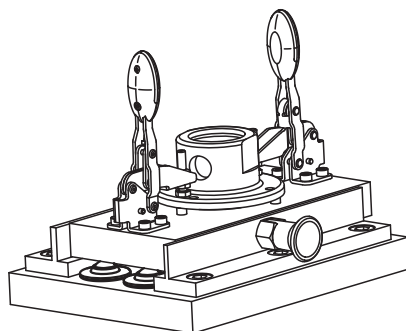
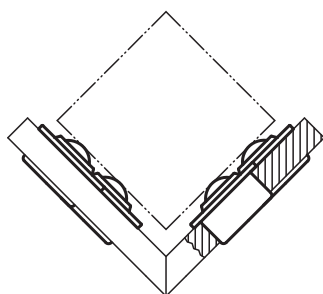
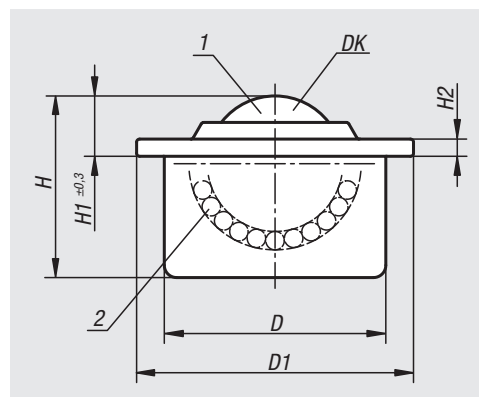
Drawing reference:

- 1) load ball
- 2) bearing balls

Form B: cap and housing electro zinc-plated, balls steel

Form C: cap and housing electro zinc-plated, balls stainless steel

Form D: cap, housing and balls stainless steel



Order No.	Form	DK	D	D1	H	H1	H2	Load rating C (N)	Suitable tolerance ring
95150-115	B	15,8	24±0,065	31	21	9,5	2,8	600	95164-024
95150-122	B	22,2	36±0,080	45	30	9,8	2,8	1600	95164-036
95150-130	B	30	45±0,080	55	37	13,8	4	3000	95164-045
95150-145	B	44,5	62±0,095	75	53,5	19	4	6100	95164-062
95150-215	C	15,8	24±0,065	31	21	9,5	2,8	600	95164-024
95150-222	C	22,2	36±0,080	45	30	9,8	2,8	1600	95164-036
95150-230	C	30	45±0,080	55	37	13,8	4	3000	95164-045
95150-245	C	44,5	62±0,095	75	53,5	19	4	6100	95164-062
95150-315	D	15,8	24±0,065	31	21	9,5	2,8	380	95164-024
95150-322	D	22,2	36±0,080	45	30	9,8	2,8	1000	95164-036
95150-330	D	30	45±0,080	55	37	13,8	4	2000	95164-045

Ball transfer units

with steel housing and plastic ball



Material:

Electro zinc-plated steel.
Polyamid PA 66 ball.

Sample order:

nlm 95152-122

Note:

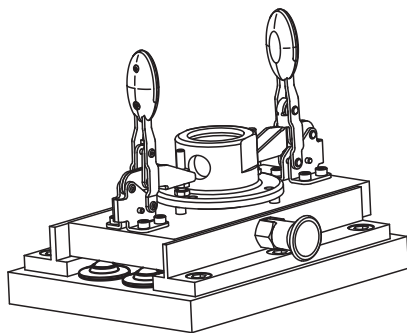
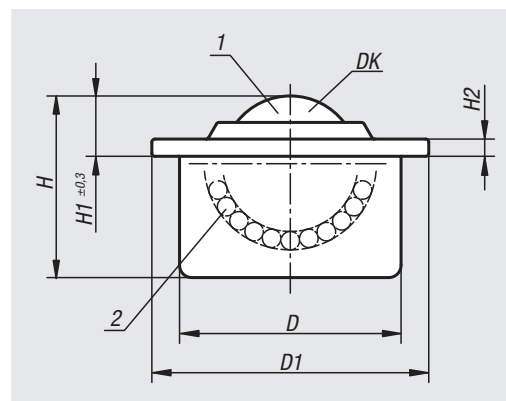
Ball transfer units with plastic balls are particularly suitable for transporting sensitive materials such as polished aluminium, brass and steel sheets or glass. They have a felt seal to protect against dirt.

Drawing reference:

- 1) load ball
- 2) bearing balls

Form B: cap and housing electro zinc-plated, bearing balls steel.

Form C: cap and housing electro zinc-plated, bearing balls stainless steel



Order No.	Form	DK	D	D1	H	H1	H2	Load rating C (N)	Suitable tolerance ring
95152-115	B	15,8	24±0,065	31	21	9,5	2,8	100	95164-024
95152-122	B	22,2	36±0,080	45	30	9,6	2,8	200	95164-036
95152-130	B	30	45±0,080	55	37	13,6	4	250	95164-045
95152-215	C	15,8	24±0,065	31	21	9,5	2,8	100	95164-024
95152-222	C	22,2	36±0,080	45	30	9,6	2,8	200	95164-036
95152-230	C	30	45±0,080	55	37	13,6	4	250	95164-045

Ball transfer units

undersprung



Material:

Steel electro zinc-plated.

Sample order:

nlm 95154-122

Note:

Undersprung ball transfer units allow for even distribution of loads for goods with uneven surfaces.

When used in machines such as punch presses and bend form machines the ball rollers spring back up after the forming process and the finished article can be rolled off.

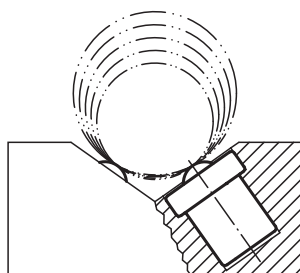
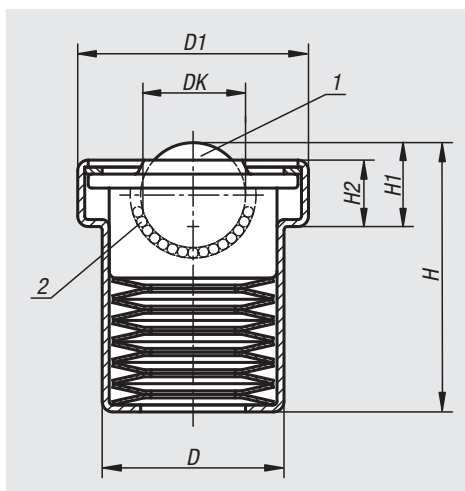
By the "End tension (N)" the ball has completely receded into the housing.

Drawing reference:

- 1) load ball
- 2) bearing balls

Form B: cap and housing electro zinc-plated, balls steel

Form C: cap and housing electro zinc-plated, balls stainless steel



Order No.	Form	DK	D	D1	H	H1	H2	Pre-tension (N)	End tension (N)	Tol. for pre and end tension (%)
95154-122	B	22,2	39	50	51,5	18,5	14	730	860	+25 / -7,5
95154-130	B	30	48,2	62	70	24,4	17,7	1350	1600	+15 / -7,5
95154-145	B	45	66,4	85	100,5	35,6	24,2	2280	2770	+15 / -7,5
95154-222	C	22,2	39	50	51,5	18,5	14	730	860	+25 / -7,5
95154-230	C	30	48,2	62	70	24,4	17,7	1350	1600	+15 / -7,5
95154-245	C	45	66,4	85	100,5	35,6	24,2	2280	2770	+15 / -7,5

Ball transfer units

with solid steel housing



Material:

Steel electro zinc-plated.

Sample order:

nln 95156-160

Note:

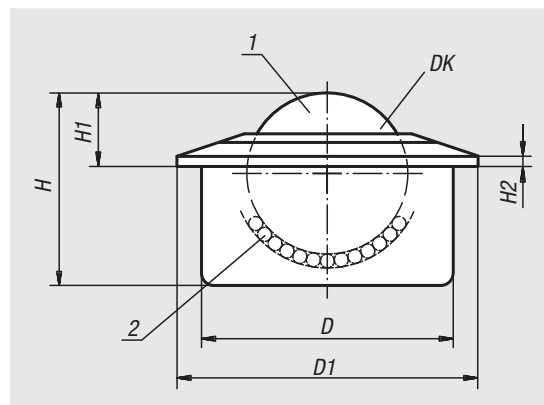
Ball transfer units with solid housings remain functional even under heavy impact loads and extreme conditions. They have a felt seal to protect against dirt.

Drawing reference:

- 1) load ball
- 2) bearing balls

Form B: cap and housing electro zinc-plated, balls steel

Form C: cap and housing electro zinc-plated, balls stainless steel



Order No.	Form	DK	D	D1	H	H1	H2	Load rating C (N)	Suitable tolerance ring
95156-160	B	57,1	100±0,1	117	77,5	29,5	5	15000	95164-100
95156-260	C	57,1	100±0,1	117	77,5	29,5	5	10000	95164-100

95156-01

Ball transfer units heavy duty

stainless steel



Material:

Balls stainless steel 1.4021.

Housing stainless steel 1.4301.

Version:

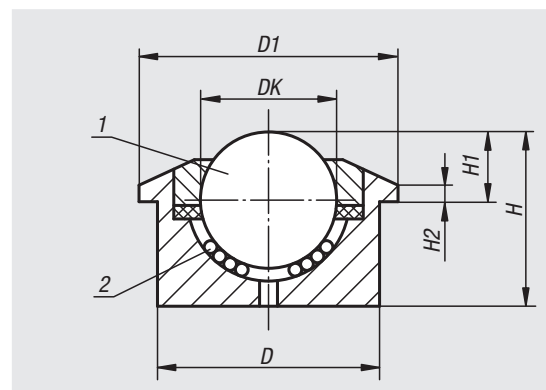
Bright.

Sample order:

nln 95156-01-322

Note:

Solid steel ball transfer units are designed for long life by impact loading. The unit includes dust seals and self-cleaning apertures. All units are supplied with solid steel housings and hardened surfaces.



Drawing reference:

- 1) load ball
- 2) bearing balls

Order No.	DK	D1	D	H	H1	H2	Load rating C (N)
95156-01-322	22,2	45	36±0,080	30,5	9,8±0,2	3	1200
95156-01-330	30	55	45±0,080	36,8	13,8±0,2	3,4	2000
95156-01-345	44,5	75	62±0,1	53,5	19	3,8	3000

Ball transfer units heavy duty

stainless steel, suitable for outdoor use



Material:

Balls stainless steel 1.4021.

Housing stainless steel 1.4301.

Version:

Bright.

Sample order:

nIm 95156-02-330

Note:

Solid steel ball transfer units are designed for long life by impact loading.

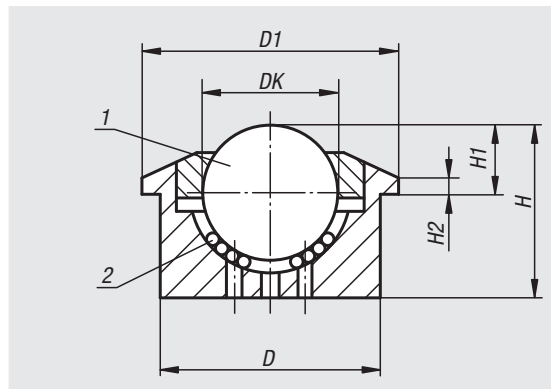
All units are supplied with solid steel housings and hardened surfaces.

The large number of self-cleaning apertures give the ball transfer units a high self-cleaning efficiency making them suitable for outdoor use.

Drawing reference:

1) load ball

2) bearing balls



Order No.	DK	D1	D	H	H1	H2	Load rating C (N)
95156-02-330	30	55	45±0,080	36,8	13,8±0,2	3,4	2000
95156-02-345	44,5	75	62±0,1	53,5	19	3,8	3000

95158

Ball transfer units

with fastening holes, without housing



Material:

Steel electro zinc-plated.

Sample order:

nIm 95158-122

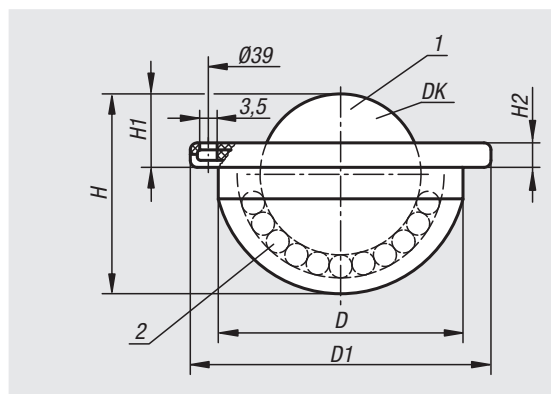
Note:

Ball transfer units with fastening holes for easy installation and removal.

Drawing reference:

1) load ball

2) bearing balls



Form B: cap and housing electro zinc-plated, balls steel

Form C: cap and housing electro zinc-plated, balls stainless steel

Order No.	Form	DK	D	D1	H	H1	H2	No. of fastening holes	Load rating C (N)
95158-122	B	22	33-0,2	45	27,7	9,8±0,2	5	3	1200
95158-222	C	22	33-0,2	45	27,7	9,8±0,2	5	3	900

Ball transfer units

with spring clips



Material:

Steel electro zinc-plated.

Sample order:

nIm 95160-122

Note:

Ball transfer units with spring clips for easy installation and removal from the functional side. The roller is held in place with spring clips, this permits generous tolerances in the receiving hole.

They have a felt seal to protect against dirt.

S = Minimum nominal thickness of mounting base.

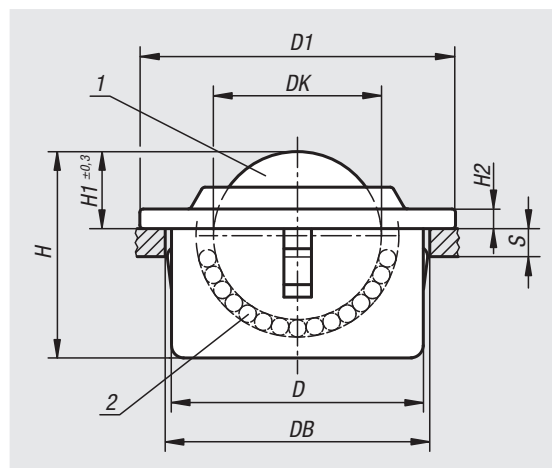
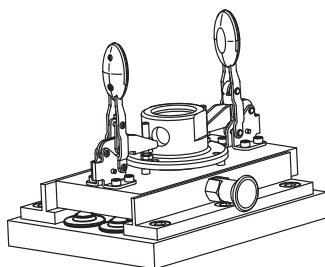
Drawing reference:

1) load ball

2) bearing balls

Form B: cap and housing electro zinc-plated, balls steel

Form C: cap and housing electro zinc-plated, balls stainless steel



Order No.	Form	DK	D	D1	Receiver-Ø DB	H	H1	H2	S	Load rating C (N)
95160-115	B	15,8	24±0,1	31	25 +0,5	21	9,5	2,8	2	600
95160-122	B	22,2	36±0,1	45	37 +0,5	30	9,8	2,8	3	1600
95160-130	B	30	45±0,1	55	46 +0,5	37	13,8	4	6	3000
95160-215	C	15,8	24±0,1	31	25 +0,5	21	9,5	2,8	2	600
95160-222	C	22,2	36±0,1	45	37 +0,5	30	9,8	2,8	3	1600
95160-230	C	30	45±0,1	55	46 +0,5	37	13,8	4	6	3000

95164

Tolerance rings



Material:

Spring band steel

Sample order:

nIm 95164-024

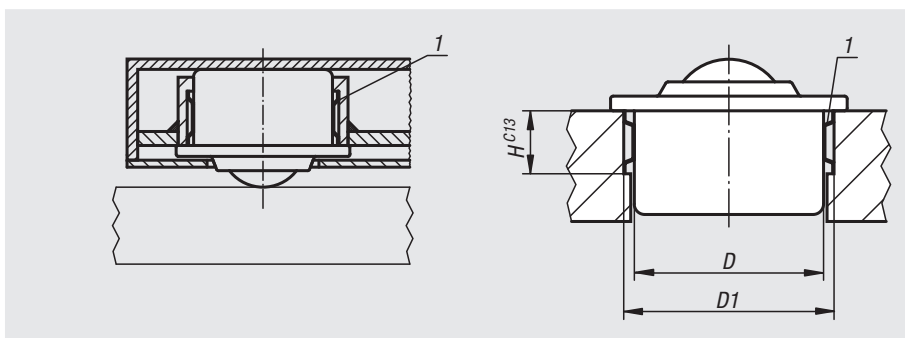
Note:

The use of tolerance rings allows for a greater tolerance range between the parts being assembled.

The ball transfer units can be fitted quickly and cost effectively.

Drawing reference:

1) tolerance ring



Order No.	D	Assembly dimensions D1	Assembly dimensions H
95164-024	24	25,7 +0,2	7
95164-036	36	37,7 +0,2	12
95164-045	45	46,7 +0,2	12
95164-062	62	64,1 +0,3	15
95164-100	100	102,5 +0,35	19

Ball transfer units mini



Material:

Steel version:

Load ball steel.

Bearing balls steel.

Housing electro zinc-plated steel.

Cover electro zinc-plated steel.

Stainless steel version:

Load ball stainless steel.

Bearing balls stainless steel.

Housing stainless steel.

Cover aluminium.

Sample order:

nlm 95180-1105

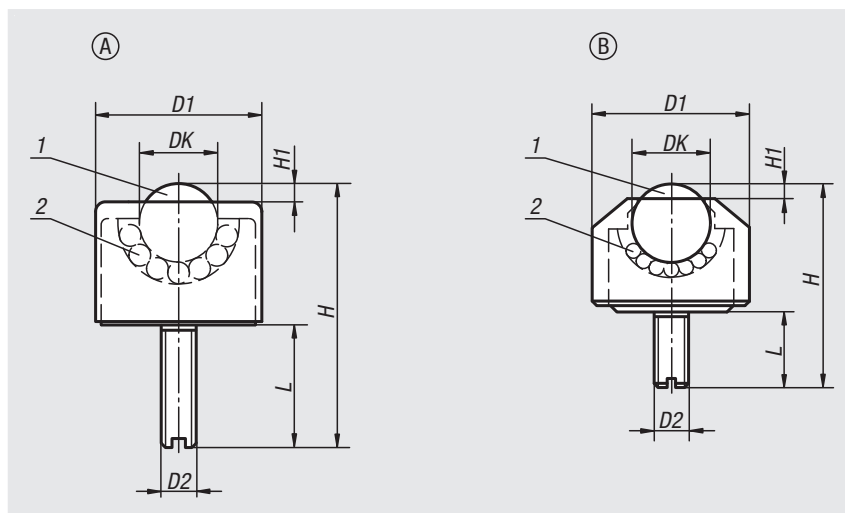
Note:

The ball transfer units comprise a housing with integrated bearing shell, a cover, a load ball and several supporting balls. For use in measuring instruments, material conveyance in clean rooms and miniature mechanisms.

Drawing reference:

1) load ball

2) bearing balls



Order No.	Form	Main material	DK	D1	D2	H	H1	L	Load rating C (N)
95180-1105	A	steel	4,8	13	M6	24	1	15	100
95180-1106	A	steel	6,4	17	M6	26	2	15	200
95180-1108	A	steel	7,9	18	M8	32	2	18	300
95180-1110	A	steel	9,6	23	M8	40	2	20	400
95180-1113	A	steel	12,7	28	M8	48	3,5	23	500
95180-1216	B	steel	15,8	24	M6	32,5	4	12	700
95180-2205	B	stainless steel	4,8	8	M2	8,5	1	2,5	50
95180-2206	B	stainless steel	6,4	13	M3	16,5	2	6	100
95180-2208	B	stainless steel	7,9	15	M4	20,5	2	8	150

Ball transfer units with stud

stainless steel



Material:

Balls stainless steel 1.4021.
Housing stainless steel 1.4301.

Version:

Bright.

Sample order:

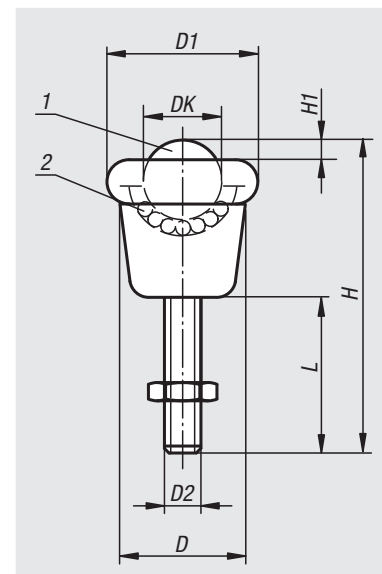
nlm 95182-01-190820

Note:

The ball transfer units has a large support area.
The stud fastening allows for high stability and heavy loading.
The formed wiper seal is external.

Drawing reference:

- 1) load ball
- 2) bearing balls



Order No.	DK	D	D1	D2	H	H1	L	Tightening torque of screws Nm	Load rating C (N)
95182-01-190820	19	25,4	32,1	M8	50,2	4,7	20	15	250
95182-01-190835	19	25,4	32,1	M8	75,2	4,7	45	15	250

Small conveyor belts

with internal drive



Material:

Frame aluminium profile 45x45 type B.
Bearing flanges aluminium.
Screws steel.
Belt support stainless steel 1.4301.
Deflector rollers aluminium.
Belt support plate 2 mm VA plate.
Axles stainless steel.
Conveyor belt transport side PVC
hardness Shore 70A (±5).

Version:

Frame and bearing flanges anodised.
Screws electro zinc-plated.

Sample order:

nIm 95300-010047060X520

Note:

- internal drive
- 24 V DC electrically commutated, highly durable
- minimum installation space, no protruding edges
- integrated control technology
- widths and lengths in 1 mm increments on request
- flexible mounting options with profile system type B
- motor externally adjustable via control cables
- running side of the conveyor belt fabric polyurethane impregnated (TPU)
- conveyor belt fabric polyester (PET)
- conveyor belt transport side has a smooth surface

Assembly:

Electrical connections/functions (7-wire cable with exposed ends 5 m):

white: +24 V power supply +24 V, protected against polarity reversal

brown: -Gnd power supply -24 V protected against polarity reversal

green: direction switched to Gnd, changes the direction

yellow: disable switched to Gnd, belt stops

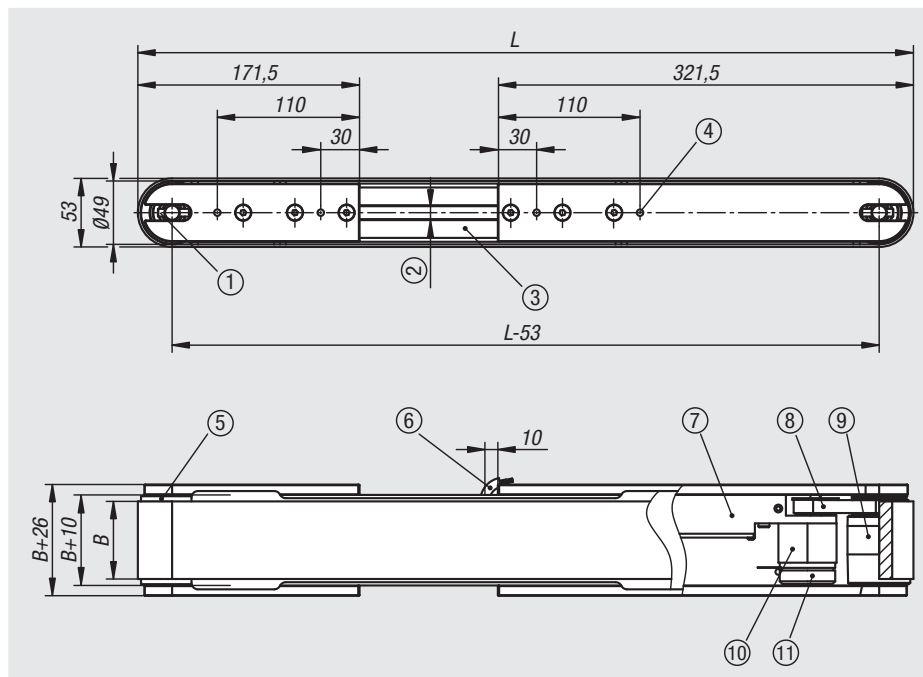
grey: brake switched to Gnd, briefly closes the winding, belt brakes

pink: speed 0–5 V speed control from 1.25% to 100% of nominal speed

blue: monitor N digital speed output

On request:

- belt width B from 60 to 400 mm
- overall length L from 520 to 2000 mm
- other belt materials
- other transmission ratios



Technical data:

- nominal voltage: 24 V
- type power: 30 W
- starting current: 2 A
- motor speed: 5000 rpm
- cable length: 5 m
- conveyor belt thickness: max. 2 mm
- cable outlet: right (standard)

Conveyor belt drive:

- brushless EC motor 24 V, 30 W
- control electronics integrated in conveyor belt
- spur gear transmission
- toothed belt drive underneath conveyor belt

Drawing reference:

- 1) Self-locking setscrew (4x)
- 2) Slot width 10
- 3) Aluminium profile 45x45 type B
- 4) M6 (both sides)
- 5) Crowned pulley
- 6) Cable, 7 wire, 5 m
- 7) Motor control housing
- 8) Toothed belt profile T5
- 9) Drive roller, crowned
- 10) Spur gear transmission
- 11) Motor 24 V EC (brushless)

Order No.	B	L	Belt speed m/min max.	Transmission ratio	Max. load kg	Belt material transport side
95300-010047060X520	60	520	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047060X750	60	750	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047060X1000	60	1000	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047060X1500	60	1500	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047100X520	100	520	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047100X750	100	750	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047100X1000	100	1000	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047100X1500	100	1500	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047150X520	150	520	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047150X750	150	750	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047150X1000	150	1000	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047150X1500	150	1500	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047200X520	200	520	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047200X750	200	750	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047200X1000	200	1000	11,5	1:47	3	smooth PVC, Shore 70A
95300-010047200X1500	200	1500	11,5	1:47	3	smooth PVC, Shore 70A

Notes

