

norelem measures

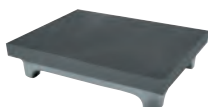
Measuring and testing components

31000 / 32000

Inspection tables
Gauge stands
Gauge joints



31000
Page 1050



31130
Page 1053



Concentricity gauges
Dial gauges



32501
Page 1060



Inspection tables

31020
Page 1050



Dial gauge arms

31140
Page 1054



Concentricity gauges
max. Ø 35 mm

32506
Page 1061



Inspection blocks
with column

31090
Page 1051



Dial gauge holders

31141
Page 1054



Concentricity gauges
max. Ø 80 mm

32501
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Support cylinders
for workpieces with collar

31100
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Dial gauge holders
with fine adjustment

31150
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Accessories
for concentricity gauges

32540
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Gauge holders articulated arm
with central hydraulic lock

31102
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Joint blocks

31152
Page 1055



Dial gauges
DIN 878

32542
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Gauge stands magnetic

31120
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Joint blocks

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Dial gauges digital

Magnetic stands

31125
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Joint blocks

31156
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Magnetic stands

Clamping joints

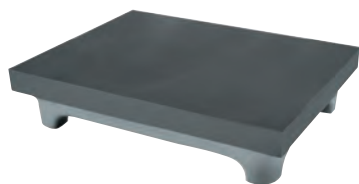
+ New/Expanded Items

31000

Inspection tables
Gauge stands
Gauge joints



Inspection tables


Material:

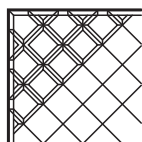
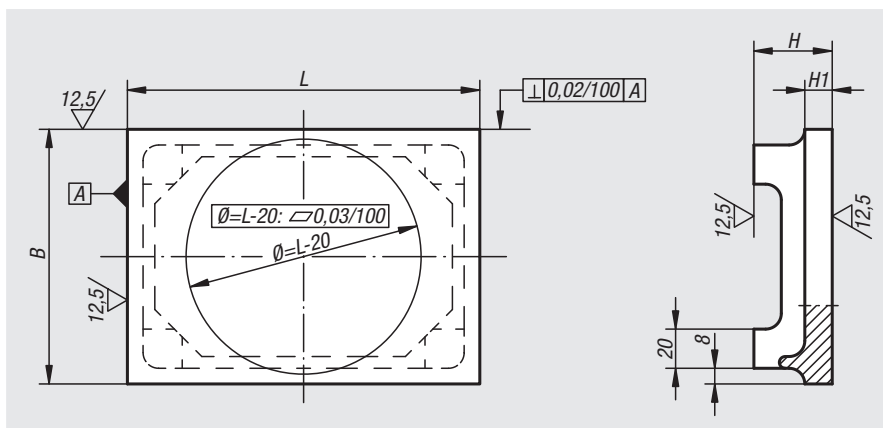
GJL 250 annealed.

Sample order:

nIm 31000-03

Note:

Plate surface with dust grooves on request.



Order No.	L	B	H	H1
31000-01	200	150	45	15
31000-02	250	200	45	15
31000-03	300	200	45	15
31000-04	350	250	45	15
31000-05	350	300	45	15
31000-06	400	350	60	20

Inspection blocks

with column

Material:

Black granite (primary stone).

Version:

Block precision grade 0

Sample order:

nIm 31020-01

Note:

Primary stone has major benefits over conventional granite:

- 3 times more wear resistance.
- 20% greater density.
- 3 times less heat expansion.

Suitable dial gauge holders see 31140 and 31141.



Order No.	Base plate length x width x height	column
31020-01	200 x 150 x 40	ø25 x 260

Support cylinders

for workpieces with collar

Material:

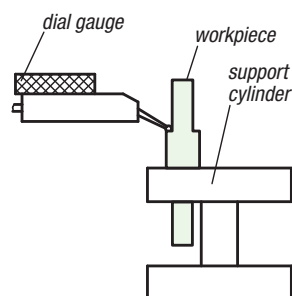
Hardened steel

Version:

Ground

Sample order:

nIm 31090-111



Order No.	Hole diameters	Diameter increments	No. of holes	Parallelism of contact faces	Distance between contact faces
31090-111	1 - 11	0,5	21	< 0,01	46
31090-220	2 - 20	1	19	< 0,01	52

31100

Gauge holders articulated arm

with central hydraulic lock

Sample order:

nIm 31100-12

Note:

The 4-part articulated arm is locked by the centre knob. Including screw for fine adjustment.



Order No.	total height	Effective radius	Magnetic base length	Magnetic base width	Magnetic base height	Magnetic force N
31100-01	310	260	61	50	55	600
31100-02	480	400	76	50	55	900

Order No.	Version	Connecting thread	total height	Effective radius
31100-11	without magnetic foot	M8x8	255	260
31100-12	without magnetic foot	M10x11	425	400

Gauge stands magnetic

Sample order:

nlm 31102-01

Note:

Base 900 N magnetic force.

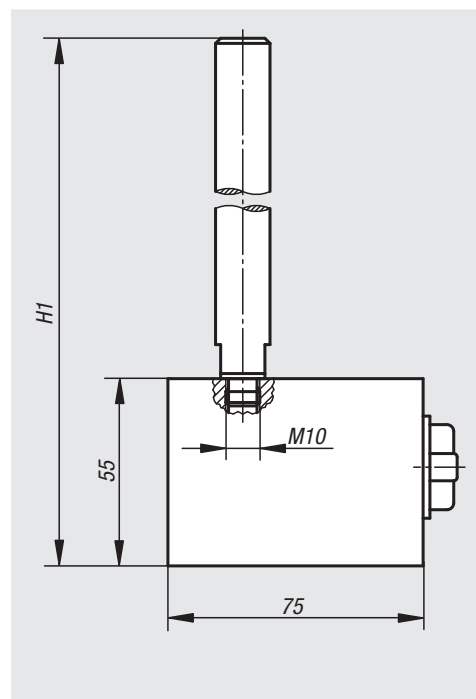


Order No.	total height	Column height	Ø column	Magnetic base length	Magnetic base width	Magnetic base height	Connecting thread	Magnetic force N
31102-01	305	250	16	75	50	55	M10	900

Magnetic stands


Sample order:

nlm 31120-01

Note:
Magnetic base with On/Off switch
(see also 09210-03)

Order No.	H1=total height	Ø column	Column height	Magnetic base length	Magnetic base width	Magnetic base height	Connecting thread	Magnetic force N
31120-01	305	16	250	75	50	55	M10	900

Magnetic stands

Version:

Magnetic base: shielded system, surface electro zinc-plated.

Sample order:

nlm 31125-01

Note:

Magnetic force 450 N. Application temperature up to 100 °C. Hairline cracks in the magnetic material are unavoidable for technical reasons. They do not impair the function of the magnets in any way. (see also 09065-10).



Order No.	total height	Column height	Ø column	Magnetic base Ø	Magnetic base height	Magnetic stand overall height	Connecting thread
31125-01	284	250	16	80	18	34	M10

Dial gauge arms

Sample order:

nlm 31130-01

Note:

With screw for fine adjustment.



Order No.	total length	Ø of column or bar	Fixation holes, e.g. for dial gauge
31130-01	270	16	3 x Ø8

Dial gauge holders


Material:

Aluminium.

Version:

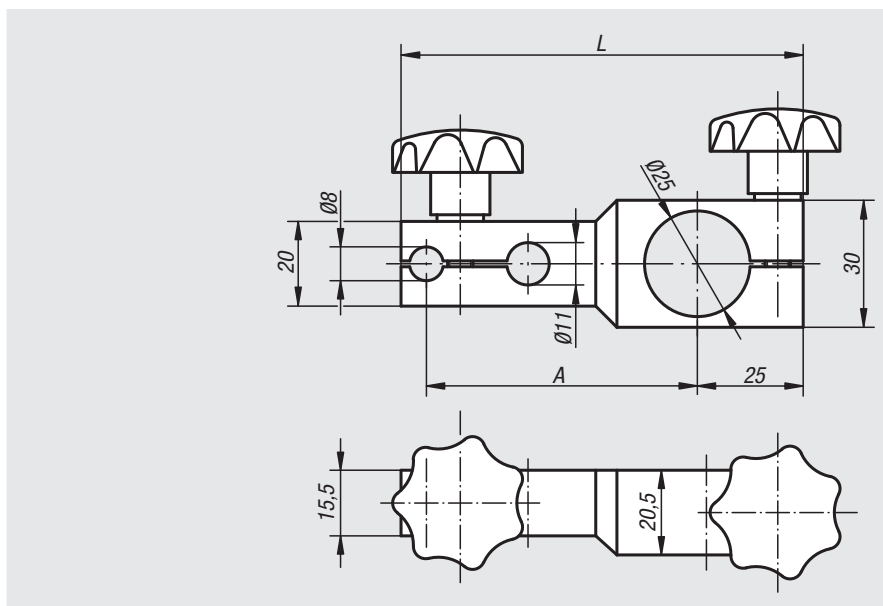
Black anodised

Sample order:

nIm 31140-065

Note:

Fits on 31020.



Order No.	A	L
31140-065	65	95
31140-100	100	130

Dial gauge holders

with fine adjustment


Material:

Aluminium.

Version:

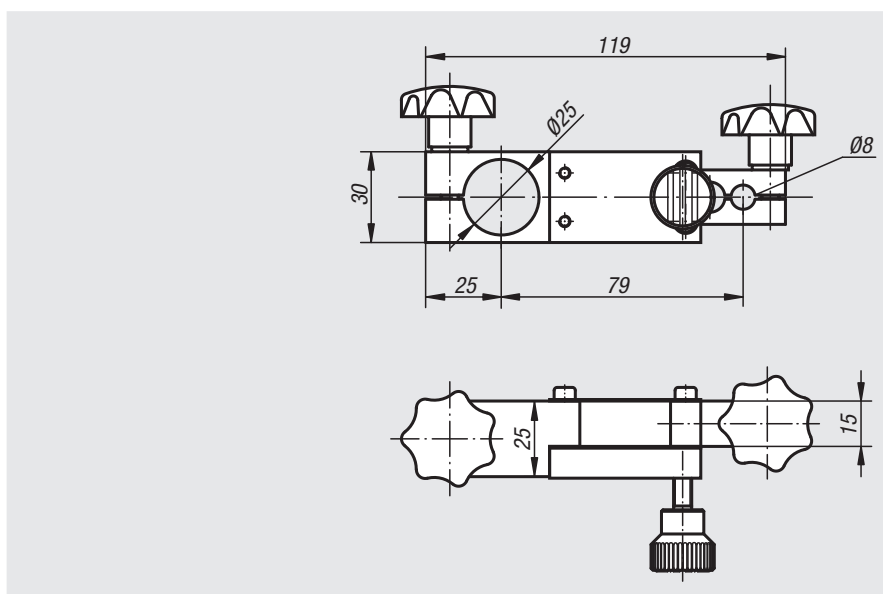
Black anodised

Sample order:

nIm 31141-079

Note:

Fits on 31020.



Order No.	Dimensions
31141-079	see drawing

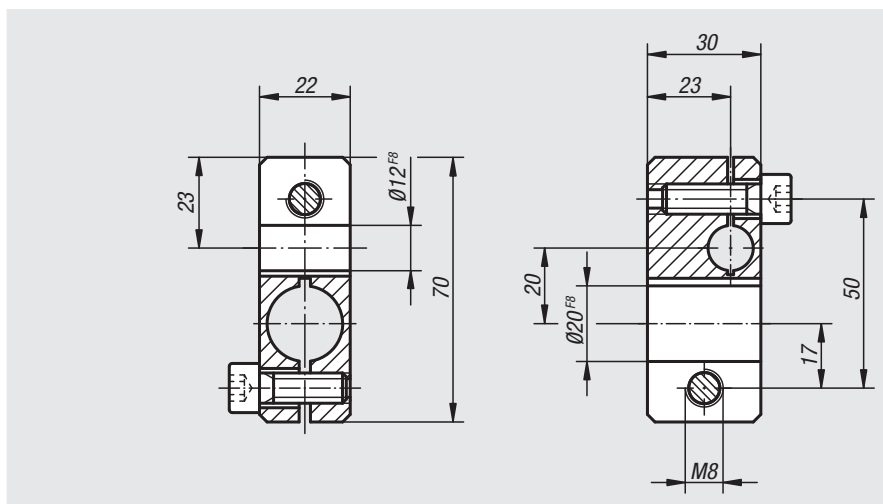
Joint blocks



Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
nlm 31150-1220



Order No.	Dimensions
31150-1220	see drawing

Joint blocks

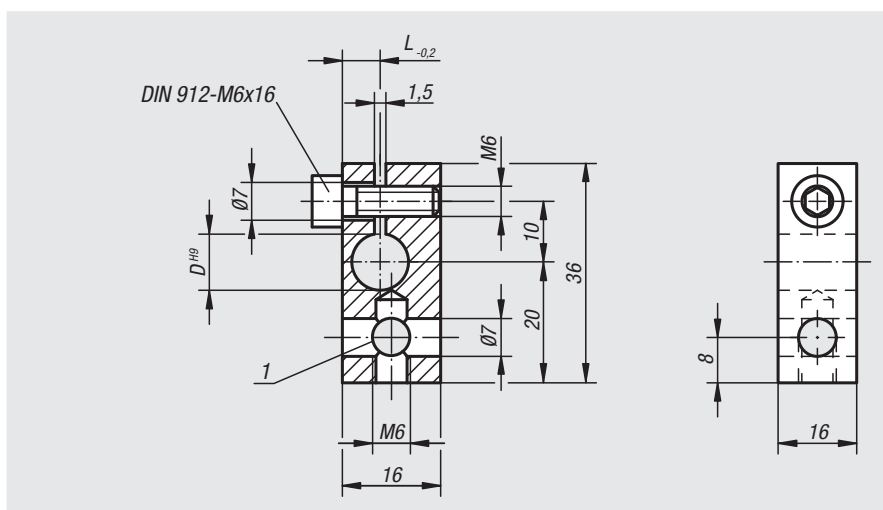


Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
nlm 31152-0712

Drawing reference:
1) hole only in 31152-0708



Order No.	D	L
31152-0708	8	5
31152-0710	10	6
31152-0712	12	7

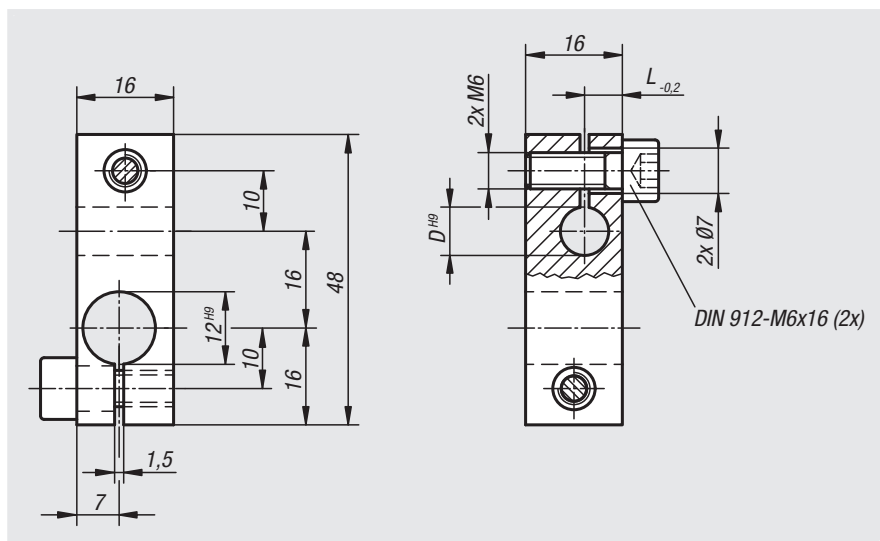
Joint blocks



Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
nlm 31154-1210



Order No.	D	L
31154-1208	8	5
31154-1210	10	6
31154-1212	12	7

31156

Clamping joints



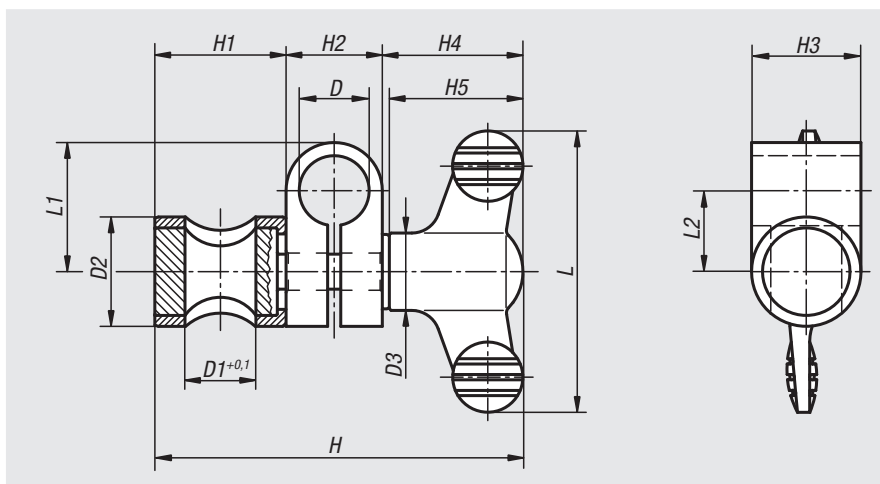
Material:
Sleeve and pin steel.
Clamp block high-strength aluminium.
Wing grip black grey thermoplastic.

Version:
Sleeve and pin high-gloss chromed.
Clamp block black anodised.

Sample order:
nlm 31156-1616

Note:
Infinitely adjustable.
Wing grip for rapid clamping.

On request:
Different combinations diameters D and D1.



Order No.	Size	D	D1	D2	D3	H	H1	H2	H3	H4	H5	L	L1	L2
31156-0606	1	6	6	14	12	43,6	15	9	14	19,6	18	38	13	8,5
31156-0808	2	8	8	16	14	54,6	17	12	16	25,6	24	50	18	12
31156-1010	3	10	10	18	14	60,6	20	15	18	25,6	24	50	22	14,5
31156-1212	4	12	12	20	21	77,2	23	17	20	37,2	35,6	75	24	15,5
31156-1616	5	16	16	25	21	90,2	31	22	25	37,2	35,6	75	29,5	18,5
31156-2020	6	20	20	30	21	98,2	36	25	30	37,2	35,6	75	30	17,5