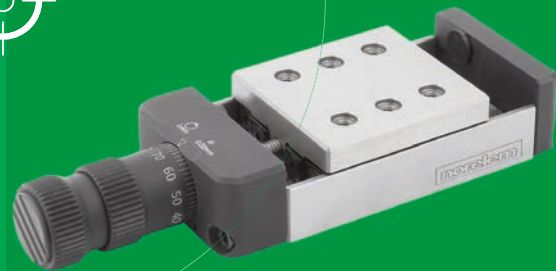
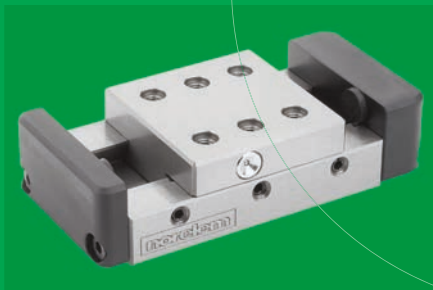


norelem

GUIDE RAILS



THE BIG
GREEN
BOOK ■

A wide range of guide rails for high-precision movement

norelem guide rails have many uses. Whether for metrology equipment construction, or in the optical industry, or for maintenance, milling or even the creation of special machinery, norelem guide rails provide you with a versatile, qualitative and high-precision solution that can be adapted to all your needs.

Overview of the norelem range



21010

Guide rail with dovetail mount
with micrometric adjustment screw

Page 6



21060

Guide rail with dovetail mount

Page 8



21061

Guide rail with dovetail mount
with end plates

Page 10



21062

Guide rail with dovetail mount
with micrometric adjustment screw

Page 12



21064

High-precision guide rail
roller-mounted

Page 14



21068

Roller-mounted high-precision guide rail
with end plates

Page 16



21070

Roller-mounted high-precision guide rail
with micrometric adjustment screw

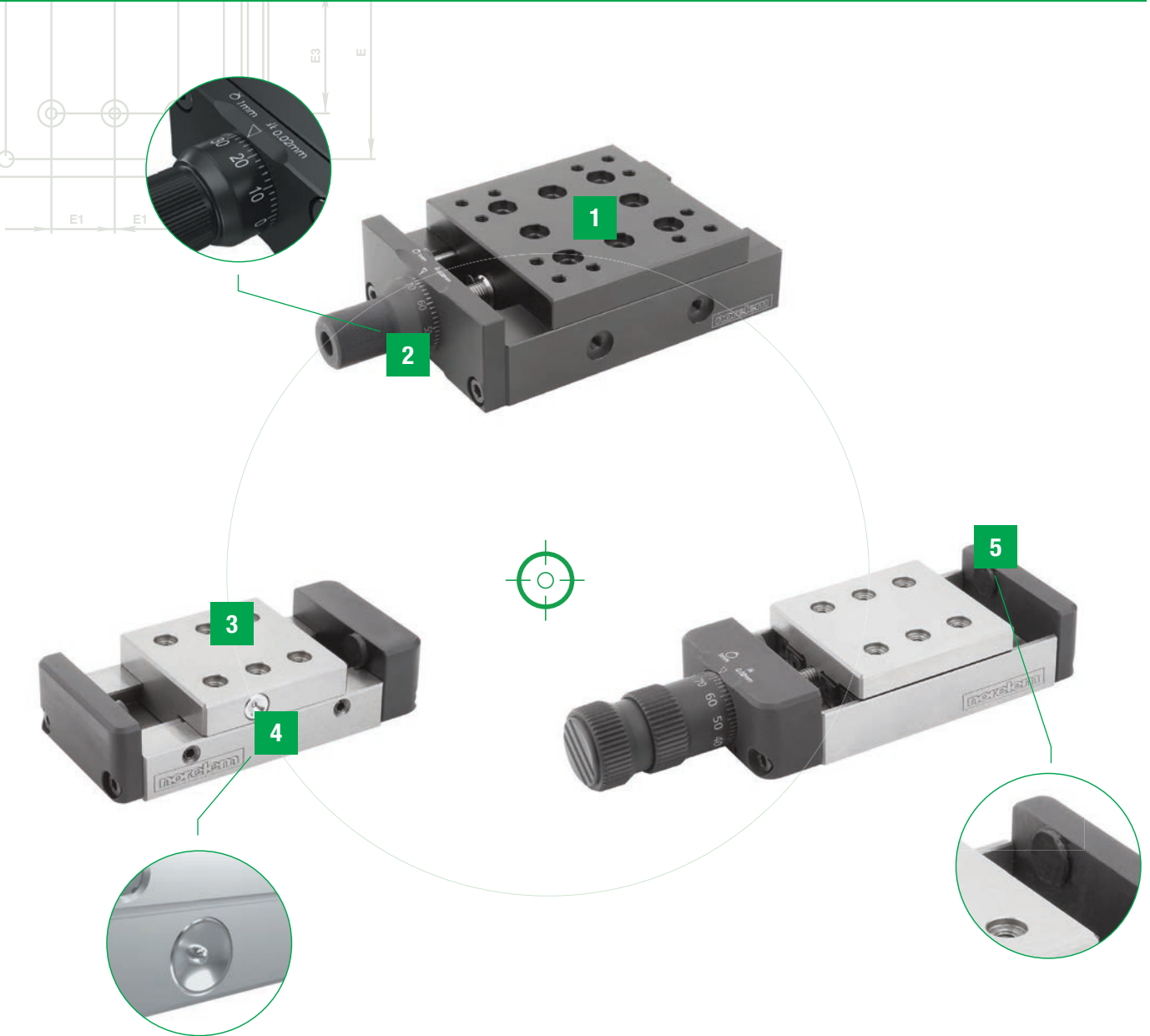
Page 18



Green Means Go. Find it. Get it. Go.

- 60,000 products available from stock.
- Technical support listening to all your questions, giving advice and assisting you in making decisions.
- Fast and simple implementation of your ideas with our free CAD-data.





HIGH PRECISION SUSTAINABILITY

- 1** Integrated modular grid
- 2** Micrometric adjustment screw
- 3** Ground surfaces
- 4** Grease nipple
- 5** End plate

ADVANTAGES:

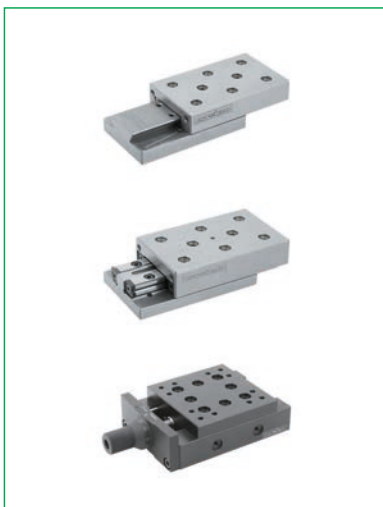
- High-precision geometry
- Slide guide with integrated adjusting device
- Screw preservation, thanks to the end plate
- High load rating
- Adapted for challenging environments
- Minimum maintenance
- Integrated grease nipple - fully embedded for zero interference

MODULARITY



WIDE RANGE

- Versatile range, adapted to different customer needs, movement speeds and load ratings; great precision; reduced weight
- Two different designs: grey cast iron, and black anodised aluminium
- Product bearing the norelem logo – visual and tactile quality



- Guide rails with dovetail mounts are economical and have a higher load rating
- Roller mounted guide rails benefit from greater smoothness and a higher level of accuracy
- Aluminium guide rails with dovetail mounts are an excellent compromise between weight, resilience and precision



WIDE-RANGING POSSIBILITIES

- Modular grid with integrated mounting holes -no need for re-machining by the customer
- Precise and quick fixing, offering endless assembly possibilities to customers

ACCESSORIES

- Available accessories: centring bush, mounting bracket, locking lever



20240 Centring bush



21010-01 Mounting bracket



06612 Clamping lever

Dovetail slides with micrometer spindle

and location holes

New



Material:
Aluminium EN AW-6082.

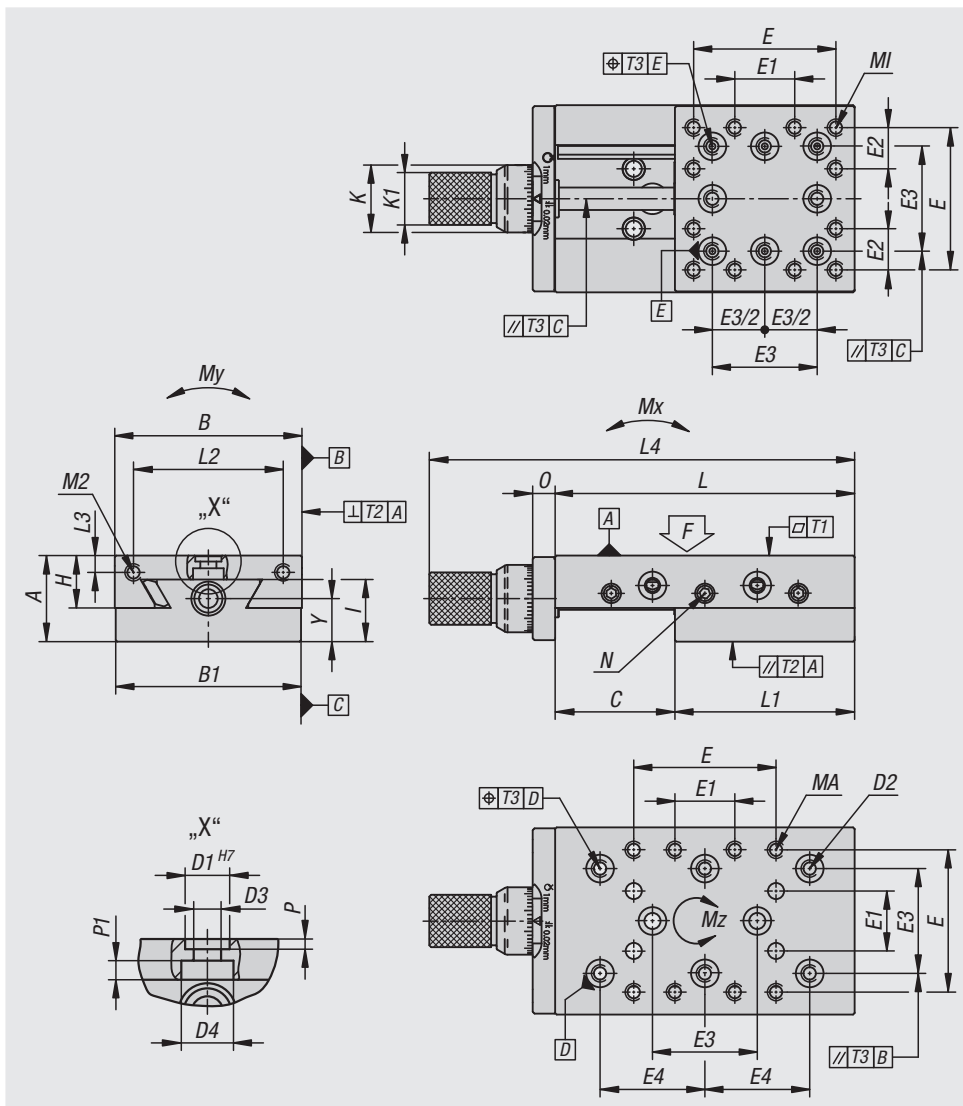
Version:
Black anodised.

Sample order:
nlm 21010-020030

Note:
These precision dovetail slides find use in machine and fixture construction, metrology, optical instruments and fine mechanics. The stated permissible load rating (F) is for static loads. The torque values only apply for centred carriages.

M1 = counterbore for screw.
T1 = number of fastening holes E1/E2/M1 inside.
TA = number of fastening holes E/E1/MA outside.

Advantages:
An additional centring hole is located at all tapped holes. Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240. Quick and retrofit combination in the X, Y and Z axes.



Dovetail slides with micrometer spindle

and location holes

Order No.	A	B	B1	C travel	D1	D2	D3	D4	E	E1	E2	E3	E4	TI	TA	TM	TN	H	I	K	K1
21010-020030	13	20	19,5	10	4	M2	2,3	4,2	12	6	-	8	10	8	8	2	8	8	8,4	9,5	7
21010-020035	13	20	19,5	15	4	M2	2,3	4,2	12	6	-	8	12	8	8	2	8	8	8,4	9,5	7
21010-020045	13	20	19,5	25	4	M2	2,3	4,2	12	6	-	8	16	8	8	2	10	8	8,4	9,5	7
21010-030040	15	30	29,5	10	5	M2,5	2,8	5,7	23	8	7,5	15	15	12	8	4	8	9,8	10,7	9,5	7
21010-030045	15	30	29,5	15	5	M2,5	2,8	5,7	23	8	7,5	15	15	12	8	4	8	9,8	10,7	9,5	7
21010-030055	15	30	29,5	25	5	M2,5	2,8	5,7	23	8	7,5	15	15	12	8	4	10	9,8	10,7	9,5	7
21010-050067	23	50	49,5	15	7	M4	4,3	8,2	38	16	11	28	28	12	8	8	8	14	16,2	18	14
21010-050080	23	50	49,5	30	7	M4	4,3	8,2	38	16	11	28	28	12	8	8	8	14	16,2	18	14
21010-050105	23	50	49,5	55	7	M4	4,3	8,2	38	16	11	28	28	12	8	8	10	14	16,2	18	14
21010-080110	34	80	79,5	30	10	M5	5,5	9	60	34	13	40	40	12	8	8	8	23	22,5	26	18
21010-080135	34	80	79,5	55	10	M5	5,5	9	60	34	13	40	40	12	8	8	8	23	22,5	26	18
21010-080160	34	80	79,5	80	10	M5	5,5	9	60	34	13	40	40	12	8	8	10	23	22,5	26	18
21010-080185	34	80	79,5	105	10	M5	5,5	9	60	34	13	40	40	12	8	8	12	23	22,5	26	18
21010-120150	45	120	119	30	10	M5	5,3	9,5	90	40	25	70	35	12	8	8	8	30	27,5	26	18
21010-120175	45	120	119	55	10	M5	5,3	9,5	90	40	25	70	35	12	8	8	12	30	27,5	26	18
21010-120200	45	120	119	80	10	M5	5,3	9,5	90	40	25	70	35	12	8	8	12	30	27,5	26	18
21010-120225	45	120	119	105	10	M5	5,3	9,5	90	40	25	70	35	12	8	8	12	30	27,5	26	18

Order No.	L	L1	L2	L3	L4	MI	MA	M2	N	O	Y	Spindle	P	P1	T1	T2	T3	F N	Mx Nm	My Nm	Mz Nm
21010-020030	30	19	14,8	2,7	49,1	M2x3	M2x3	M2	M2,5	4	5,6	M5x0,5	1,1	2,1	0,03	0,03	0,04	180	0,45	2	0,3
21010-020035	35	19	14,8	2,7	54,1	M2x3	M2x3	M2	M2,5	4	5,6	M5x0,5	1,1	2,1	0,03	0,03	0,04	180	0,45	2	0,3
21010-020045	45	19	14,8	2,7	64,1	M2x3	M2x3	M2	M2,5	4	5,6	M5x0,5	1,1	2,1	0,03	0,03	0,04	180	0,45	2	0,3
21010-030040	40	28	23,5	3,2	59,1	M3x4,5	M3x4,5	M2,5	M2,5	4	7,5	M5x0,5	1,1	2,1	0,03	0,03	0,04	350	1,1	4	1
21010-030045	45	28	23,5	3,2	64,1	M3x4,5	M3x4,5	M2,5	M2,5	4	7,5	M5x0,5	1,1	2,1	0,03	0,03	0,04	350	1,1	4	1
21010-030055	55	28	23,5	3,2	74,1	M3x4,5	M3x4,5	M2,5	M2,5	4	7,5	M5x0,5	1,1	2,1	0,03	0,03	0,04	350	1,1	4	1
21010-050067	67	48	40	4,5	100,6	M4x6	M4x8	M4	M4	6	11,5	M6x1	1,6	3	0,03	0,03	0,04	540	2,5	8	2,3
21010-050080	80	48	40	4,5	113,6	M4x6	M4x8	M4	M4	6	11,5	M6x1	1,6	3	0,03	0,03	0,04	540	2,5	8	2,3
21010-050105	105	48	40	4,5	138,6	M4x6	M4x8	M4	M4	6	11,5	M6x1	1,6	3	0,03	0,03	0,04	540	2,5	8	2,3
21010-080110	110	78	68	6	152,1	M5x7,5	M5x10	M5	M5	8	17	M08x1	2,1	3,7	0,03	0,03	0,04	750	8	22	7
21010-080135	135	78	68	6	177,1	M5x7,5	M5x10	M5	M5	8	17	M08x1	2,1	3,7	0,03	0,03	0,04	750	8	22	7
21010-080160	160	78	68	6	202,1	M5x7,5	M5x10	M5	M5	8	17	M08x1	2,1	3,7	0,03	0,03	0,04	750	8	22	7
21010-080185	185	78	68	6	227,1	M5x7,5	M5x10	M5	M5	8	17	M08x1	2,1	3,7	0,03	0,03	0,04	750	8	22	7
21010-120150	150	119	106	7	196,1	M5x10	M5x10	M6	M5	12	20	M10x1	2,1	5,5	0,03	0,03	0,04	1500	30	45	18
21010-120175	175	119	106	7	221,1	M5x10	M5x10	M6	M5	12	20	M10x1	2,1	5,5	0,03	0,03	0,04	1500	30	45	18
21010-120200	200	119	106	7	246,1	M5x10	M5x10	M6	M5	12	20	M10x1	2,1	5,5	0,04	0,04	0,06	1500	30	45	18
21010-120225	225	119	106	7	271,1	M5x10	M5x10	M6	M5	12	20	M10x1	2,1	5,5	0,04	0,04	0,06	1500	30	45	18

Dovetail slides

with location holes

New



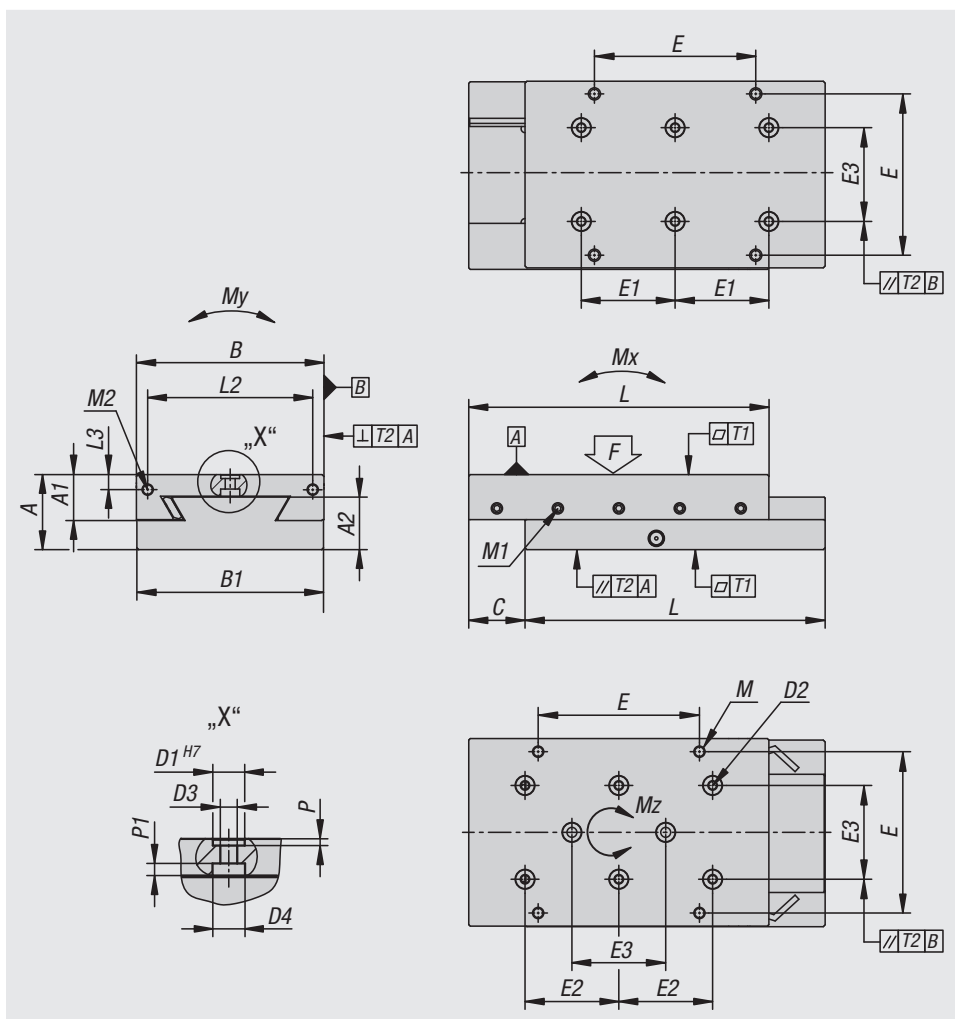
Material:
EN-GJL-250.

Version:
Bright, ground.

Sample order:
nlm 21060-050080

Note:
These high-precision carriage guides are used to build machines and mechanical systems, metrology devices for the optical industry and in precision mechanical engineering, for example.
The central set screw M1 can be replaced by a clamping lever 06460.
The stated permissible load values (F) are designed for dynamic loads with a service life of 1 million lifting operations.
For static loads, 10 times the table value F is permitted.
The torque values apply only to centred slides.

An additional centring hole is located at holes D2 and D3 on the top of the slide.
Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240.
TI E = number of fastening holes E/M in the internal part.
TA E = number of fastening holes E/M in the external part.
TI E1 = number of fastening holes E1/D1 in the internal part.
TA E1 = number of fastening holes E1/D1 in the external part.



Dovetail slides

with location holes

Order No.	A	A1	A2	B	B1	C	D1	D2	D3	D4	E	E1	E2	E3	TI E	TA E	TI E1	TA E1
21060-050080	25	15	17,5	50	49,5	15	7	M4	4,3	8,2	-	14	28	28	-	-	10	6
21060-050105	25	15	17,5	50	49,5	20	7	M4	4,3	8,2	-	14	28	28	-	-	14	8
21060-050130	25	15	17,5	50	49,5	25	7	M4	4,3	8,2	-	28	28	28	-	-	10	10
21060-075105	32	19,5	22	75	74,5	20	10	M5	5,3	10	62	25	25	50	4	4	6	6
21060-075130	32	19,5	22	75	74,5	25	10	M5	5,3	10	62	25	25	50	4	4	10	10
21060-100110	40	24	28	100	99,5	20	10	M5	5,3	10,2	86	25	25	50	4	4	6	6
21060-100135	40	24	28	100	99,5	25	10	M5	5,3	10,2	86	50	50	50	4	4	6	6
21060-100160	40	24	28	100	99,5	30	10	M5	5,3	10,2	86	50	50	50	4	4	6	6

Order No.	L	L2	L3	P	P1	M	M1	M2	T1	T2	F N	Mx Nm	My Nm	Mz Nm
21060-050080	80	40	5,5	1,6	3,2	-	M5	M4	0,02	0,02	75	4	6	5
21060-050105	105	40	5,5	1,6	3,2	-	M5	M4	0,02	0,02	90	7	7	8
21060-050130	130	40	5,5	1,6	3,2	-	M5	M4	0,025	0,025	120	10	9	12
21060-075105	105	60	5,5	2,1	3,6	M5	M5	M5	0,02	0,02	130	9	15	10
21060-075130	130	60	5,5	2,1	3,6	M5	M5	M5	0,025	0,025	160	15	18	15
21060-100110	110	-	-	2,1	3,8	M6	M6	-	0,02	0,02	155	11	26	12
21060-100135	135	88	8	2,1	3,8	M6	M6	M6	0,025	0,025	190	17	32	19
21060-100160	160	88	8	2,1	3,8	M6	M6	M6	0,025	0,025	230	24	37	26

Dovetail slides

with end plates and location holes



Material:
EN-GJL-250.

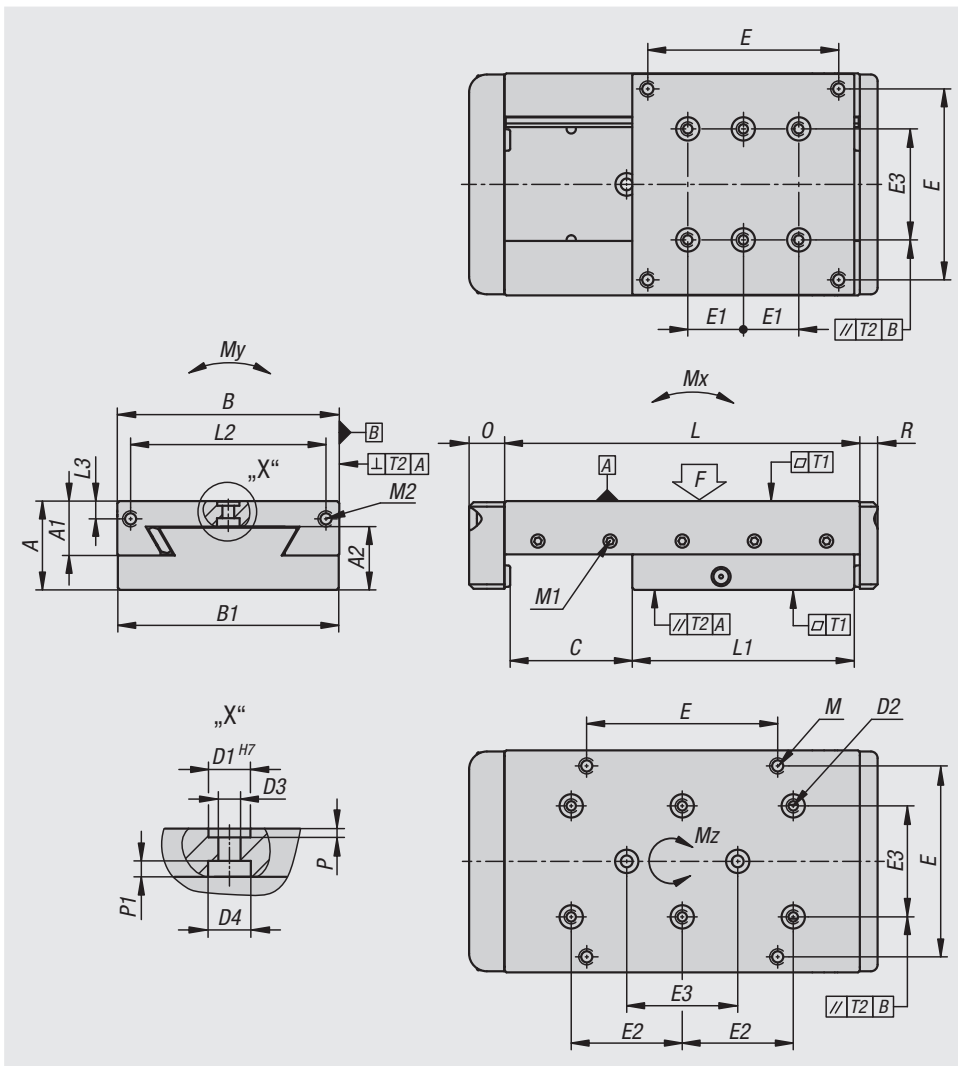
Version:
Bright, ground.

Sample order:
nlm 21061-050080

Note:
These high-precision carriage guides are used to build machines and mechanical systems, metrology devices for the optical industry and in precision mechanical engineering, for example. The central set screw M1 can be replaced by a clamping lever 06460. The stated permissible load values (F) are designed for dynamic loads with a service life of 1 million lifting operations. For static loads, 10 times the table value F is permitted. The torque values apply only to centred slides.

An additional centring hole is located at holes D2 and D3 on the top of the slide. Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240.

TI E = number of fastening holes E/M in the internal part.
TA E = number of fastening holes E/M in the external part.
TI E1 = number of fastening holes E1/D1 in the internal part.
TA E1 = number of fastening holes E1/D1 in the external part.



Dovetail slides

with end plates and location holes

Order No.	A	A1	A2	B	B1	C	D1	D2	D3	D4	E	E1	E2	E3	TI E	TA E	TI E1	TA E1
21061-050080	25	15	17,5	50	49,5	29	7	M4	4,3	8,2	-	14	28	28	-	-	6	6
21061-050105	25	15	17,5	50	49,5	54	7	M4	4,3	8,2	-	14	28	28	-	-	6	8
21061-050180	25	15	17,5	50	49,5	77	7	M4	4,3	8,2	-	28	28	28	-	-	6	12
21061-050205	25	15	17,5	50	49,5	102	7	M4	4,3	8,2	28	28	28	28	4	-	6	12
21061-075105	32	19,5	22	75	74,5	27	10	M5	5,3	10	62	25	25	50	4	4	6	6
21061-075130	32	19,5	22	75	74,5	52	10	M5	5,3	10	62	25	25	50	4	4	6	10
21061-075155	32	19,5	22	75	74,5	77	10	M5	5,3	10	62	25	25	50	4	4	6	10
21061-075180	32	19,5	22	75	74,5	72	10	M5	5,3	10	62	25	25	50	4	4	6	14
21061-100135	40	24	28	100	99,5	32	10	M5	5,3	10,2	86	25	50	50	4	4	6	6
21061-100160	40	24	28	100	99,5	57	10	M5	5,3	10,2	86	25	50	50	4	4	6	6
21061-100260	40	24	28	100	99,5	108	10	M5	5,3	10,2	86	50	50	50	4	6	6	10

Order No.	L	L1	L2	L3	P	P1	O	R	M	M1	M2	T1	T2	F N	Mx Nm	My Nm	Mz Nm
21061-050080	80	48	40	5,5	1,6	3,2	15,5	8	-	M5	M4	0,02	0,02	110	2	6	2
21061-050105	105	48	40	5,5	1,6	3,2	15,5	8	-	M5	M4	0,02	0,02	60	2	6	2
21061-050180	180	100	40	5,5	1,6	3,2	15,5	8	-	M5	M4	0,025	0,025	120	4	9	4
21061-050205	205	100	40	5,5	1,6	3,2	15,5	8	M4	M5	M4	0,03	0,03	110	4	9	4
21061-075105	105	75	60	5,5	2,1	3,6	16	8	M5	M5	M5	0,02	0,02	290	5	19	6
21061-075130	130	75	60	5,5	2,1	3,6	16	8	M5	M5	M5	0,025	0,025	165	5	19	6
21061-075155	155	75	60	5,5	2,1	3,6	16	8	M5	M5	M5	0,025	0,025	110	5	19	6
21061-075180	180	105	60	5,5	2,1	3,6	16	8	M5	M5	M5	0,025	0,025	190	5	19	6
21061-100135	135	100	88	8	2,1	3,8	16	8	M6	M6	M6	0,025	0,025	590	11	43	12
21061-100160	160	100	88	8	2,1	3,8	16	8	M6	M6	M6	0,025	0,025	350	11	43	12
21061-100260	260	149	88	8	2,1	3,8	16	8	M6	M6	M6	0,03	0,03	400	23	63	26

Dovetail slides

with micrometer spindle and location holes

New



Material:
EN-GJL-250.

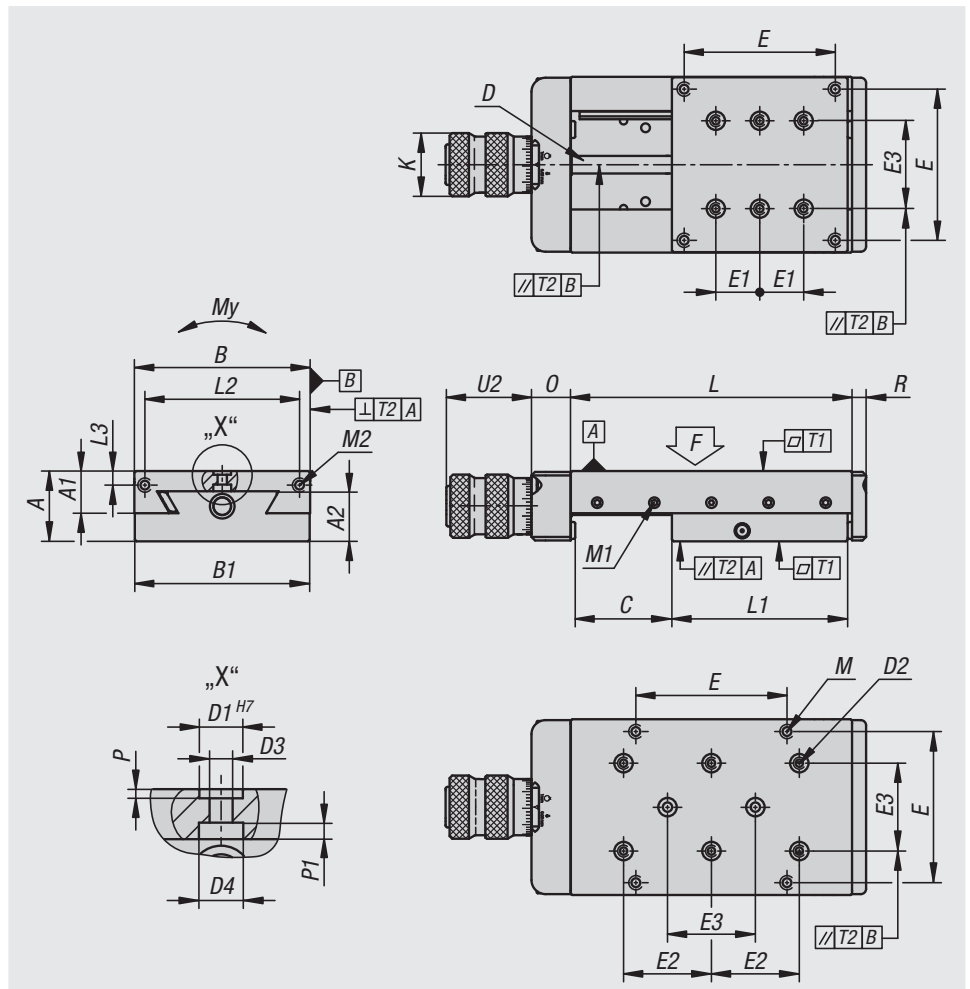
Version:
Bright, ground.

Sample order:
nlm 21062-050080

Note:
These high-precision carriage guides are used to build machines and mechanical systems, metrology devices for the optical industry and in precision mechanical engineering, for example. The central set screw M1 can be replaced by a clamping lever 06460. The stated permissible load values (F) are designed for dynamic loads with a service life of 1 million lifting operations. For static loads, 10 times the table value F is permitted. The torque values apply only to centred slides.

An additional centring hole is located at holes D2 and D3 on the top of the slide. Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240.

- TI E = number of fastening holes E/M in the internal part.
- TA E = number of fastening holes E/M in the external part.
- TI E1 = number of fastening holes E1/D1 in the internal part.
- TA E1 = number of fastening holes E1/D1 in the external part.



Dovetail slides

with micrometer spindle and location holes

Order No.	A	A1	A2	B	B1	C	D	D1	D2	D3	D4	E	E1	E2	E3	TI E	TA E	TI E1	TA E1	K
21062-050080	25	15	17,5	50	49,5	29	M6x1	7	M4	4,3	8,2	-	14	28	28	-	-	6	6	23,5
21062-050105	25	15	17,5	50	49,5	54	M6x1	7	M4	4,3	8,2	-	14	28	28	-	-	8	6	23,5
21062-050180	25	15	17,5	50	49,5	77	M6x1	7	M4	4,3	8,2	-	28	28	28	-	-	12	6	23,5
21062-050205	25	15	17,5	50	49,5	102	M6x1	7	M4	4,3	8,2	28	28	28	28	4	-	12	6	23,5
21062-075105	32	19,5	22	75	74,5	27	M8x1	10	M5	5,3	10	62	25	25	50	4	4	6	6	29
21062-075130	32	19,5	22	75	74,5	52	M8x1	10	M5	5,3	10	62	25	25	50	4	4	10	6	29
21062-075155	32	19,5	22	75	74,5	77	M8x1	10	M5	5,3	10	62	25	25	50	4	4	10	6	29
21062-075180	32	19,5	22	75	74,5	72	M8x1	10	M5	5,3	10	62	25	25	50	4	4	14	6	29
21062-100135	40	24	28	100	99,5	32	M10x1	10	M5	5,3	10,2	86	25	25	50	4	4	6	6	36
21062-100160	40	24	28	100	99,5	57	M10x1	10	M5	5,3	10,2	86	25	25	50	4	4	6	6	36
21062-100260	40	24	28	100	99,5	108	M10x1	10	M5	5,3	10,2	86	50	50	50	4	6	10	6	36
21062-150210	50	29,5	37	150	149	58	Tr16x2	13	M6	6,3	11	130	50	50	100	4	4	6	6	36
21062-150310	50	29,5	37	150	149	108	Tr16x2	13	M6	6,3	11	130	50	100	100	4	6	6	6	36

Order No.	L	L1	L2	L3	P	P1	O	R	U2	M	M1	M2	T1	T2	F N	Mx Nm	My Nm	Mz Nm
21062-050080	80	48	40	5,5	1,6	3,2	18,5	8	43	-	M5	M4	0,02	0,02	110	2	6	2
21062-050105	105	48	40	5,5	1,6	3,2	18,5	8	43	-	M5	M4	0,02	0,02	60	2	6	2
21062-050180	180	100	40	5,5	1,6	3,2	18,5	8	43	-	M5	M4	0,025	0,025	120	4	9	4
21062-050205	205	100	40	5,5	1,6	3,2	18,5	8	43	-	M5	M4	0,025	0,025	110	4	9	4
21062-075105	105	75	60	5,5	2,1	3,6	22,4	8	48,5	M5	M5	M5	0,02	0,02	290	5	19	6
21062-075130	130	75	60	5,5	2,1	3,6	22,4	8	48,5	M5	M5	M5	0,025	0,025	165	5	19	6
21062-075155	155	75	60	5,5	2,1	3,6	22,4	8	48,5	M5	M5	M5	0,025	0,025	110	5	19	6
21062-075180	180	105	60	5,5	2,1	3,6	22,4	8	48,5	M5	M5	M5	0,025	0,025	90	5	19	6
21062-100135	135	100	88	8	2,1	3,8	22,4	8	49	M6	M6	M6	0,025	0,025	590	11	43	12
21062-100160	160	100	88	8	2,1	3,8	22,4	8	49	M6	M6	M6	0,025	0,025	350	11	43	12
21062-100260	260	149	88	8	2,1	3,8	22,4	8	49	M6	M6	M6	0,03	0,03	400	23	63	26
21062-150210	210	149	135	8	2,6	4,3	25	10	49	M6	M6	M6	0,03	0,03	920	31	128	33
21062-150310	310	199	135	8	2,6	4,3	25	10	49	M6	M6	M6	0,03	0,03	850	53	170	55

Precision slides

roller mounted with location holes

New



Material:
EN-GJL-250.

Version:
Bright, ground.

Sample order:
nlm 21064-040050

Note:
These roller-mounted precision slides are used to build machines and mechanical systems, in metrology devices, optical instruments and precision mechanical engineering.

The stated permissible load values (F) are designed for a service life of 1 million lifting operations. The torque values apply only to centred slides. Cross slides are also available on request.

An additional centring hole is located at holes D2 and D3 on the top of the slide. Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240.

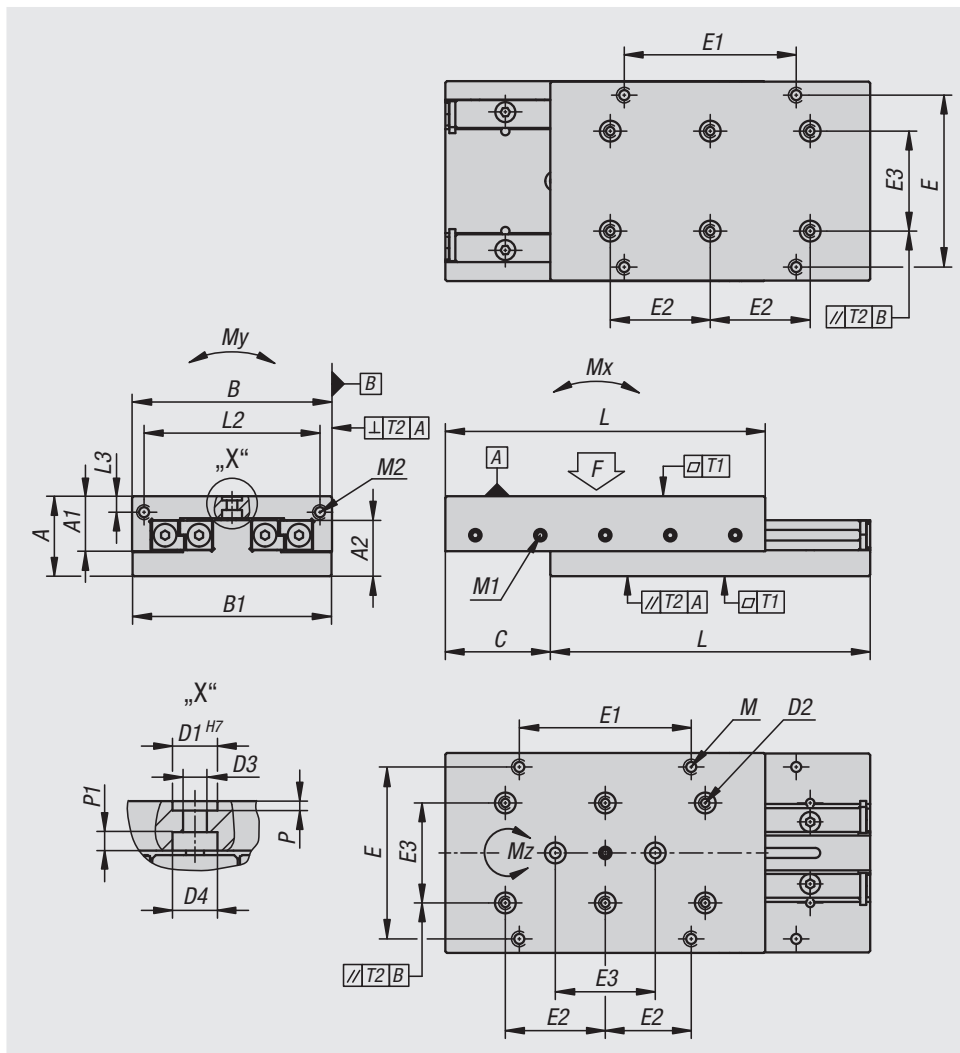
F = permissible loading for dynamic and static loads.

TI E/E1 = number of fastening holes E/E1/M in the internal part.

TA E/E1 = number of fastening holes E/E1/M in the external part.

TI E2 = number of fastening holes E2/D1 in the internal part.

TA E2 = number of fastening holes E2/D1 in the external part.



Precision slides

roller mounted with location holes

Order No.	A	A1	A2	B	B1	C	D1	D2	D3	D4	E	E1	E2	E3	T1 E/E1	TA E/E1	T1 E2	TA E2
21064-040050	20	13	13	40	39,5	10	5	M3	3,3	6,5	30	15	20	20	4	4	6	6
21064-0400501	20	13	13	40	39,5	17,5	5	M3	3,3	6,5	30	15	20	20	4	4	6	6
21064-040065	20	13	13	40	39,5	25	5	M3	3,3	6,5	30	15	20	20	6	6	6	6
21064-040080	20	13	13	40	39,5	32,5	5	M3	3,3	6,5	30	15	20	20	8	8	6	6
21064-050055	25	17	16,3	50	49,5	10	7	M4	4,3	8	-	-	14	28	-	-	6	6
21064-050080	25	17	16,3	50	49,5	30	7	M4	4,3	8	-	-	28	28	-	-	6	6
21064-050105	25	17	16,3	50	49,5	40	7	M4	4,3	8	-	-	28	28	-	-	8	8
21064-050155	25	17	16,3	50	49,5	60	7	M4	4,3	8	-	-	28	28	-	-	12	12
21064-060055	25	17	16,3	60	59,5	10	7	M4	4,3	8	-	-	17	34	-	-	6	6
21064-060080	25	17	16,3	60	59,5	30	7	M4	4,3	8	-	-	34	34	-	-	6	6
21064-060105	25	17	16,3	60	59,5	40	7	M4	4,3	8	-	-	34	34	-	-	6	6
21064-060155	25	17	16,3	60	59,5	60	7	M4	4,3	8	-	-	34	34	-	-	10	10
21064-075080	32	20	23	75	74,5	15	10	M5	5,3	10	62	62	25	50	4	4	6	4
21064-075105	32	20	23	75	74,5	20	10	M5	5,3	10	62	62	25	50	4	4	6	6
21064-075130	32	20	23	75	74,5	25	10	M5	5,3	10	62	62	25	50	4	4	8	8
21064-100110	40	27,5	28	100	99,5	15	10	M5	5,3	10	86	86	25	50	4	4	6	6
21064-100160	40	27,5	28	100	99,5	52,5	10	M5	5,3	10	86	86	50	50	4	4	12	12
21064-100210	40	27,5	28	100	99,5	80	10	M5	5,3	10	86	86	50	50	6	6	8	8
21064-100260	40	27,5	28	100	99,5	105	10	M5	5,3	10	86	86	50	50	4	6	10	10

Order No.	L	L2	L3	P	P1	M	M1	M2	T1	T2	F N	Mx Nm	My Nm	Mz Nm
21064-040050	50	34	3,8	1,1	3,4	M3	M3	M3	0,02	0,02	210	1	4	3
21064-0400501	50	34	3,8	1,1	3,4	M3	M3	M3	0,02	0,02	140	1	3	2
21064-040065	65	34	3,8	1,1	3,4	M3	M3	M3	0,02	0,02	180	1	4	3
21064-040080	80	34	3,8	1,1	3,4	M3	M3	M3	0,02	0,02	220	3	5	5
21064-050055	55	40	5,5	1,6	3,2	-	M3	M4	0,02	0,02	480	4	7	6
21064-050080	80	40	5,5	1,6	3,2	-	M3	M4	0,02	0,02	410	3	9	7
21064-050105	105	40	5,5	1,6	3,2	-	M3	M4	0,02	0,02	520	10	11	15
21064-050155	155	40	5,5	1,6	3,2	-	M3	M4	0,02	0,02	680	23	19	33
21064-060055	55	50	5,5	1,6	3,2	-	M3	M4	0,02	0,02	470	4	8	6
21064-060080	80	50	5,5	1,6	3,2	-	M3	M4	0,02	0,02	380	3	11	7
21064-060105	105	50	5,5	1,6	3,2	-	M3	M4	0,02	0,02	530	10	14	15
21064-060155	155	50	5,5	1,6	3,2	-	M3	M4	0,02	0,02	690	23	23	34
21064-075080	80	-	-	2,1	4,1	M5	M4	-	0,02	0,02	650	10	18	15
21064-075105	105	60	6	2,1	4,1	M5	M4	M5	0,02	0,02	720	18	26	27
21064-075130	130	60	6	2,1	4,1	M5	M4	M5	0,02	0,02	850	29	33	42
21064-100110	110	-	-	2,1	4,1	M6	M6	M6	0,02	0,02	1740	43	59	63
21064-100160	160	86	8	2,1	4,1	M6	M6	M6	0,02	0,02	1190	37	79	68
21064-100210	210	86	8	2,1	4,1	M6	M6	M6	0,03	0,03	1450	60	99	105
21064-100260	260	86	8	2,1	4,1	M6	M6	M6	0,03	0,03	1730	89	119	151

Precision slides

roller mounted with end plates and location holes

New



Material:
EN-GJL-250.

Version:
Bright, ground.

Sample order:
nlm 21068-040065

Note:
These roller-mounted precision slides are used to build machines and mechanical systems, in metrology devices, optical instruments and precision mechanical engineering.

The stated permissible load values (F) are designed for a service life of 1 million lifting operations. The torque values apply only to centred slides.

An additional centring hole is located at holes D2 and D3 on the top of the slide. Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240.

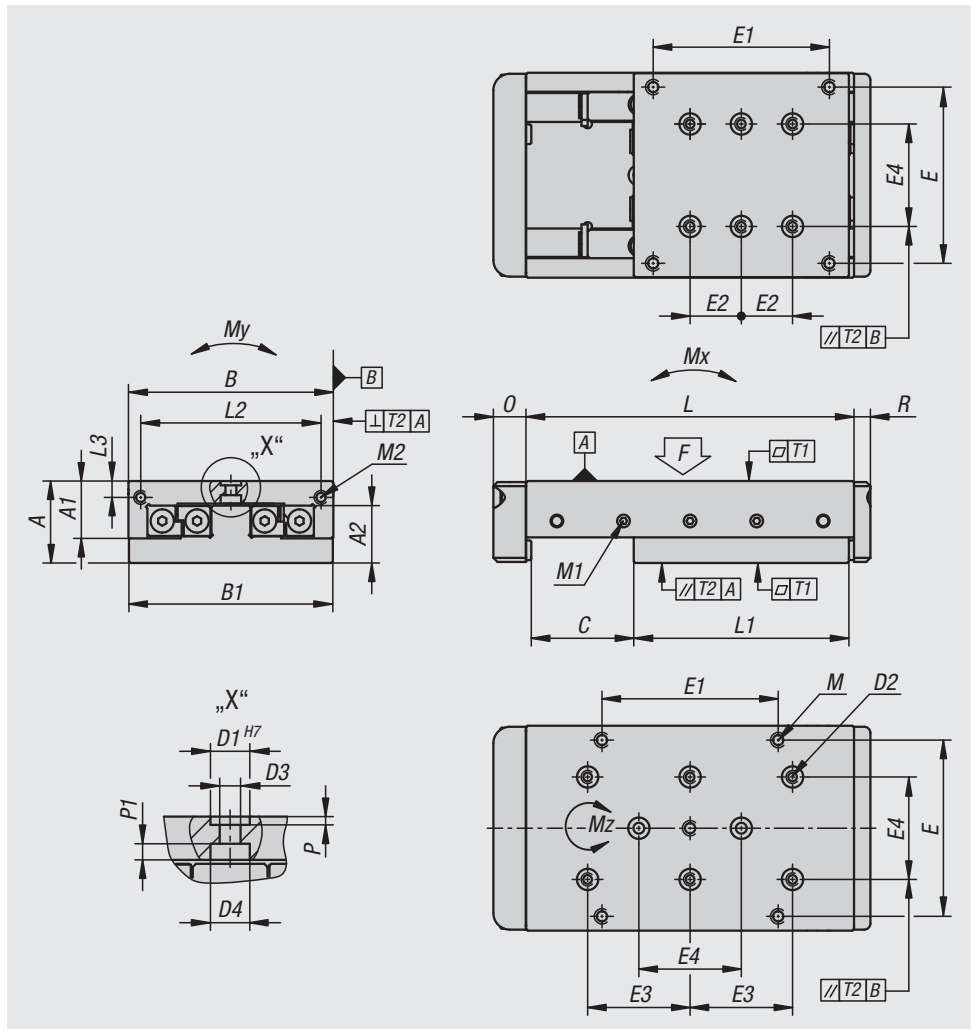
F = permissible loading for dynamic and static loads.

TI E/E1 = number of fastening holes E/E1/M in the internal part.

TA E/E1 = number of fastening holes E/E1/M in the external part.

TI E4 = number of fastening holes E4/D1 in the internal part.

TA E2 = number of fastening holes E2/D1 in the external part.



Precision slides

roller mounted with end plates and location holes

Order No.	A	A1	A2	B	B1	C	D1	D2	D3	D4	E	E1	E2	E3	E4	T1 E/E1	TA E/E1	TA E4	TA E2
21068-040065	20	13	13	40	39,5	15	5	M3	3,3	6,5	30	15	20	20	20	4	6	6	6
21068-040080	20	13	13	40	39,5	30	5	M3	3,3	6,5	30	15	20	20	20	4	8	6	6
21068-050105	25	17	16,3	50	49,5	20	7	M4	4,3	8	-	-	28	28	28	-	-	6	8
21068-050130	25	17	16,3	50	49,5	45	7	M4	4,3	8	-	-	28	28	28	-	-	6	10
21068-060080	25	17	16,3	60	59,5	20	7	M4	4,3	8	-	-	17	34	34	-	-	6	6
21068-060180	25	17	16,3	60	59,5	70	7	M4	4,3	8	-	-	34	34	34	-	-	6	10
21068-100260	40	27,5	28	100	99,5	95	10	M5	5,3	10	86	86	50	50	50	4	6	6	10

Order No.	L	L1	L2	L3	P	P1	O	R	M	M1	M2	T1	T2	F N	Mx Nm	My Nm	Mz Nm
21068-040065	65	50	33	3,8	1,1	3,4	12	5	M3	M3	M3	0,02	0,02	120	1	4	3
21068-040080	80	50	33	3,8	1,1	3,4	12	5	M3	M3	M3	0,02	0,02	80	3	5	5
21068-050105	105	80	40	5,5	1,6	3,2	15,5	8	-	M3	M4	0,02	0,02	520	10	11	15
21068-050130	130	80	40	5,5	1,6	3,2	15,5	8	-	M3	M4	0,02	0,02	263	23	19	33
21068-060080	80	55	50	5,5	1,6	3,2	15,5	8	-	M3	M4	0,02	0,02	265	3	11	7
21068-060180	180	105	50	5,5	1,6	3,2	15,5	8	-	M3	M4	0,02	0,02	305	23	23	34
21068-100260	260	160	86	8	2,1	4,1	16	8	M6	M6	M6	0,03	0,03	1050	89	119	151

Precision slides

roller mounted with micrometer spindle and location holes



Material:
EN-GJL-250.

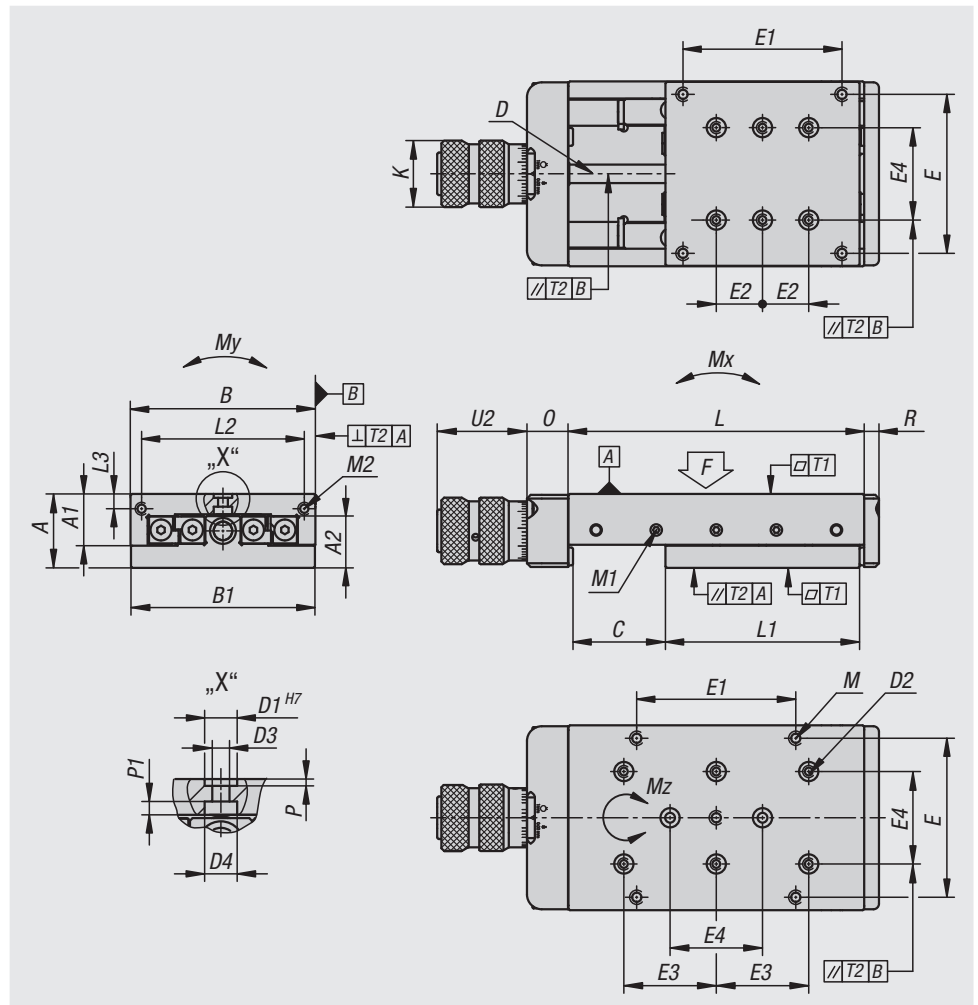
Version:
Bright, ground.

Sample order:
nlm 21070-040050

Note:
These roller-mounted precision slides are used to build machines and mechanical systems, in metrology devices, optical instruments and precision mechanical engineering. The scale division on the scale ring is 0.02 mm.

The stated permissible load values (F) are designed for a service life of 1 million lifting operations. The torque values apply only to centred slides.

An additional centring hole is located at holes D2 and D3 on the top of the slide. Other connecting elements can be precisely mounted on the slide in combination with our centring rings 20240.



F = permissible loading for dynamic and static loads.

TI E/E1 = number of fastening holes E/E1/Min the internal part.

TA E/E1 = number of fastening holes E/E1/Min the external part.

TI E4 = number of fastening holes E4/D1 in the internal part.

TA E2 = number of fastening holes E2/D1 in the external part.

Precision slides

roller mounted with micrometer spindle and location holes

Order No.	A	A1	A2	B	B1	C	D	D1	D2	D3	D4	E	E1	E2	E3	E4	T1 E/E1	TA E/E1	TA E4	TA E2
21070-040050	20	13	13	40	39,5	15	M5x0,5	5	M3	3,3	6,5	30	15	10	20	20	4	4	6	6
21070-040065	20	13	13	40	39,5	30	M5x0,5	5	M3	3,3	6,5	30	15	10	20	20	4	6	6	6
21070-050080	25	17	16,3	50	49,5	20	M6x1	7	M4	4,3	8	-	-	14	28	28	-	-	6	6
21070-050130	25	17	16,3	50	49,5	45	M6x1	7	M4	4,3	8	-	-	28	28	28	-	-	6	10
21070-060080	25	17	16,3	60	59,5	15	M6x1	7	M4	4,3	8	-	-	17	34	34	-	-	6	6
21070-060180	25	17	16,3	60	59,5	70	M6x1	7	M4	4,3	8	-	-	34	34	34	-	-	6	10
21070-075105	32	20	23	75	74,5	20	M8x1	10	M5	5,3	10	62	62	25	25	50	4	4	6	8
21070-075130	32	20	23	75	74,5	45	M8x1	10	M5	5,3	10	62	62	25	25	50	4	4	6	8
21070-100160	40	27,5	28	100	99,5	50	M10x1	10	M5	5,3	10	86	86	25	50	50	4	4	6	6
21070-100360	40	27,5	28	100	99,5	150	M10x1	10	M5	5,3	10	86	86	50	50	50	6	8	6	14

Order No.	K	L	L1	L2	L3	P	P1	O	R	U2	M	M1	M2	T1	T2	F N	Mx Nm	My Nm	Mz Nm
21070-040050	17,8	50	35	33	3,8	1,1	3,4	14,5	5	32,5	M3	M3	M3	0,02	0,02	121	1	4	3
21070-040065	17,8	65	35	33	3,8	1,1	3,4	14,5	5	32,5	M3	M3	M3	0,02	0,02	131	1	4	3
21070-050080	23,5	80	55	40	5,5	1,6	3,2	18,5	8	43	M4	M3	M4	0,02	0,02	224	3	9	7
21070-050130	23,5	130	80	40	5,5	1,6	3,2	18,5	8	43	M4	M3	M4	0,02	0,02	260	23	19	33
21070-060080	23,5	80	60	50	5,5	1,6	3,2	18,5	8	43	M4	M3	M4	0,02	0,02	355	3	11	7
21070-060180	23,5	180	105	50	5,5	1,6	3,2	18,5	8	43	M4	M3	M4	0,02	0,02	305	23	23	34
21070-075105	29	105	80	60	6	2,1	4,1	22,4	8	48,5	M5	M5	M5	0,02	0,02	410	18	26	27
21070-075130	29	130	80	60	6	2,1	4,1	22,4	8	48,5	M5	M5	M5	0,02	0,02	250	29	33	42
21070-100160	36	160	105	88	8	2,1	4,1	22,4	8	49	M6	M6	M6	0,02	0,02	935	37	79	68
21070-100360	36	360	205	88	8	2,1	4,1	22,4	8	49	M6	M6	M6	0,03	0,03	1095	89	119	151



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