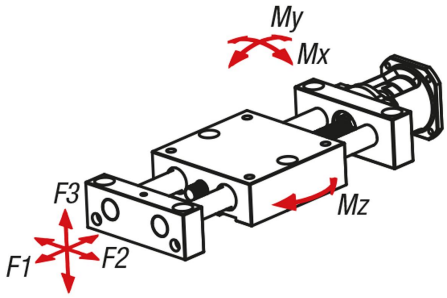
Item description/product images



Description

Material:
Bearing block and carriage aluminium alloy.
Guide column and threaded spindle stainless steel.
Plain bearing for guide columns and spindle nut high-quality special plastic.
Toothed belts neoprene, profile 3M.

Version:
Aluminium alloy anodised.
Stainless steel hardened and ground.
Threaded spindle with ball bearing.

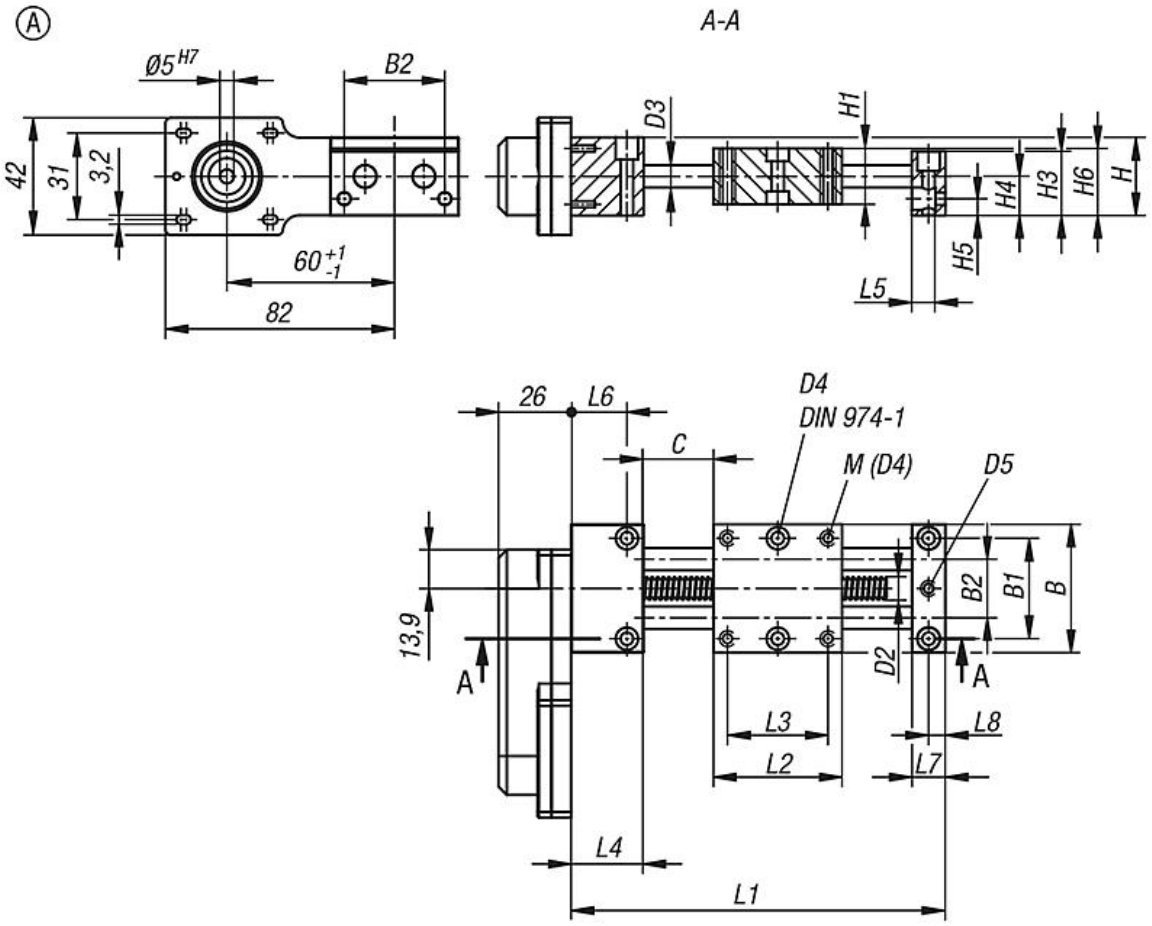
Note for ordering:
The unit is supplied with the position of the drive unit, cable outlet or control unit as shown in the drawing.

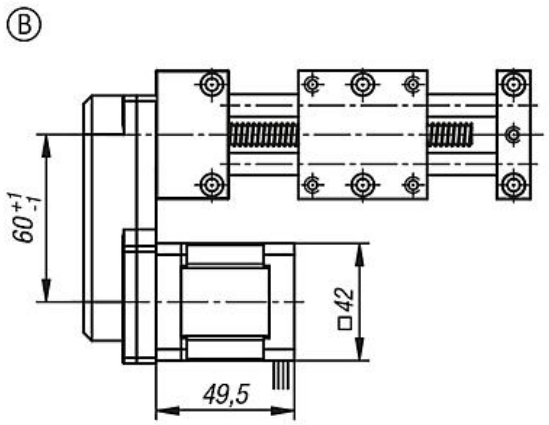
Note:
Positioning stages for motorised adjustment and positioning tasks. The plain bearings and spindle nuts are suitable for dry running, however lubrication with a grease for plastic plain bearings is recommended. The suitable programming software and interface cable for the stepper motor with positioning control are available as accessories (25000-15).
The stepper motor with a resolution of 200 increments per rotation allows a single direction calculated positioning accuracy of 0.005 mm. The absolute single direction positioning accuracy is 0.01 mm. The system can be operated with a switch-on time of 100%.

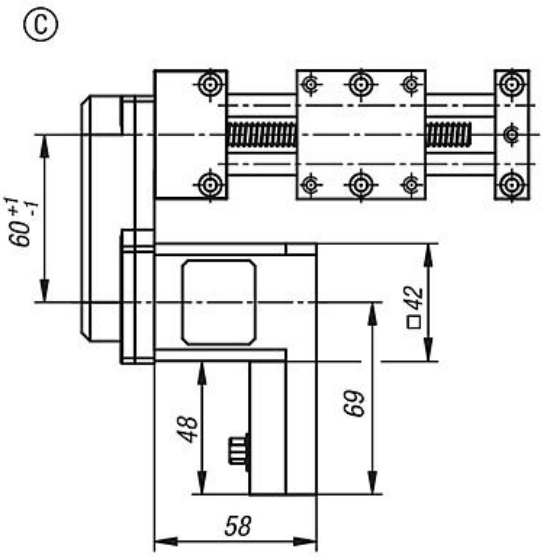
Can be combined with all other parts of the same size.

Technical data:
Threaded spindle pitch: 2 mm
Axial backlash of threaded spindle: <0.04 mm
Radial play of guides: <0.02 mm
Max. input speed: 600 rpm
Max. travel speed: 20 mm/s
Max. duty cycle: 100 %
Application temperature: +10 °C to +50 °C

Drawings


Ⓐ
A-A
Ø5 H7
B2
42
31
3,2
60 +1 -1
82
D3
H1
H4
H3
H6
H
H5
L5
26
L6
C
D4
DIN 974-1
M (D4)
D5
B2
B1
B
13,9
A
A
D2
L3
L8
L2
L7
L4
L1


Ⓑ
60 +1 -1
□42
49,5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60 +1 -1
□42
48
69
58

Overview of items

Order No.	Size	Form	Form-Type
21083-0810	8	A	without motor
21083-08111	8	B	with stepper motor
21083-08121	8	C	stepper motor with control
21083-1210	12	A	without motor
21083-12111	12	B	with stepper motor
21083-12121	12	C	stepper motor with control

Specifications

Size	B	B1	B2	D1	D3	D4	D5	H	H1	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6	L7	L8	Travel S
8	46	36	21	8x2	8	4	M4	28	20	23	14	6	24	134	46	36	26	8,5	20	12	6	50
12	75	60	38	8x2	12	6	M4	29,5	25	27	15,5	7	28	180	75	60	15	11	7,5	15	7,5	75

Force tables

Size	F1 N	F2 N	F3 N	Mx Nm	My Nm	Mz Nm
8	60	80	60	0,7	0,7	2
12	60	120	100	1	1	3