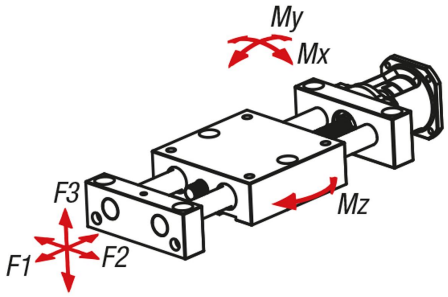
Item description/product images



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.
Claw coupling aluminium with polyurethane coupling spider.

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

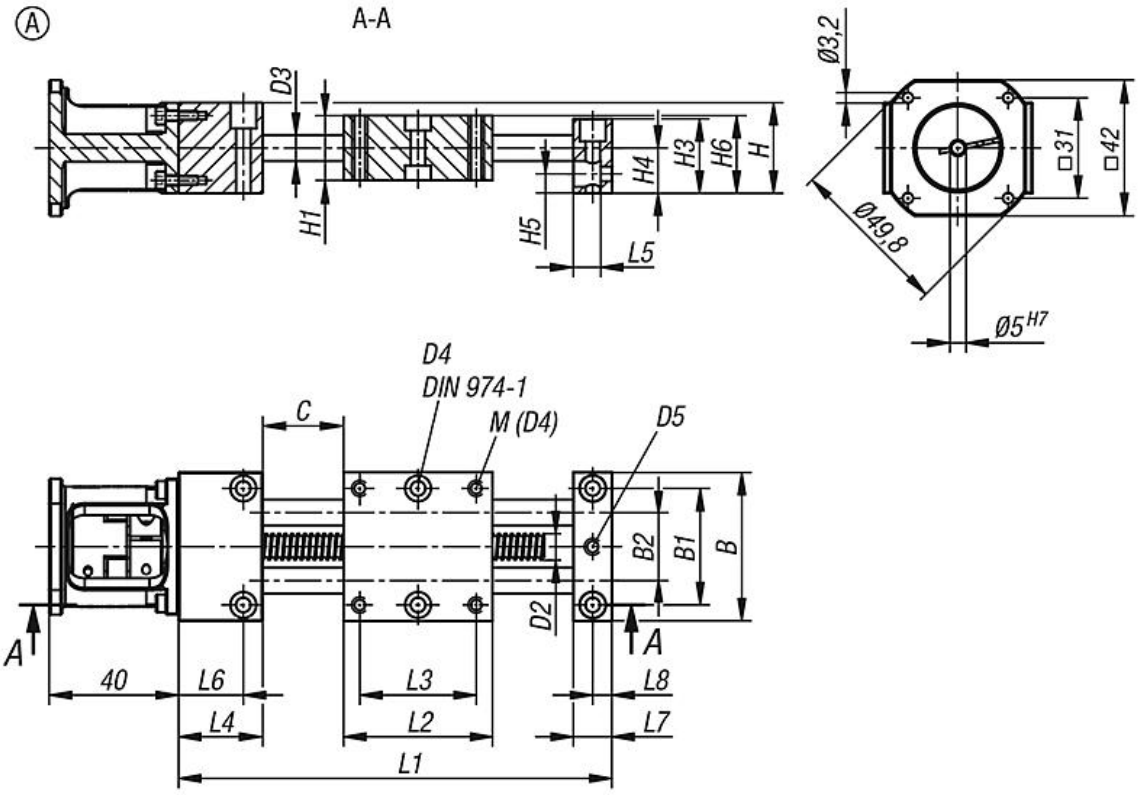
Note for ordering:
The unit is supplied with the position of cable outlet or control unit as shown in the drawing.

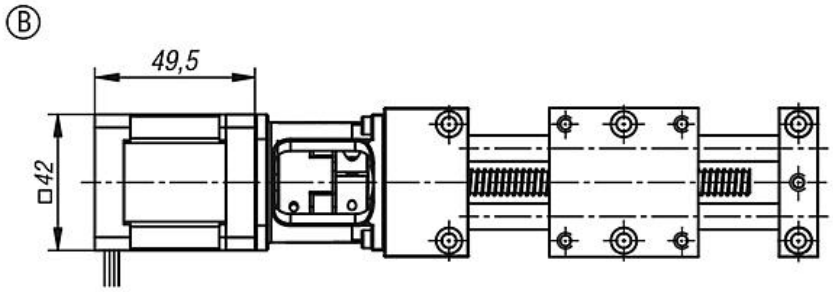
Note:
Positioning stages for motorised adjustment and positioning tasks. The plain bearings and spindle nuts are suitable for dry running, however lubrication with a grease for plastic plain bearings is recommended. The suitable programming software and interface cable for the stepper motor with positioning 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
D3
H1
H5
L5
H4
H3
H6
H
Ø3,2
□31
□42
Ø49,8
Ø5 H7
D4
DIN 974-1
M (D4)
C
D5
B2
B1
B
D2
A
A
40
L6
L4
L3
L2
L1
L8
L7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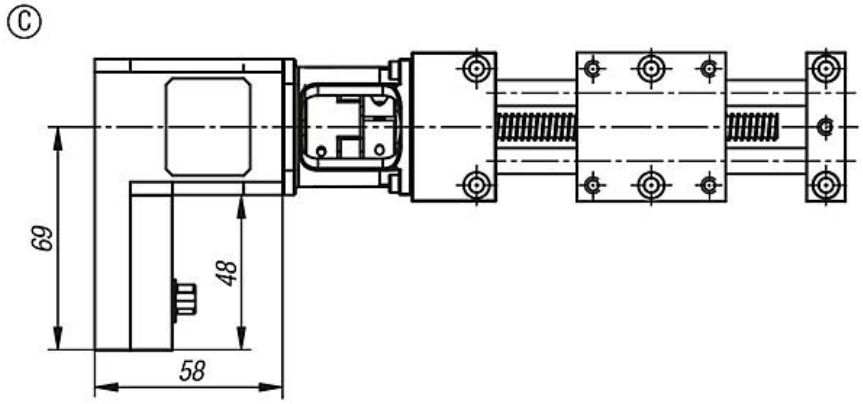
49,5
□42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Overview of items

Order No.	Size	Form	Form-Type
21082-080	8	A	without motor
21082-0811	8	B	with stepper motor
21082-0821	8	C	stepper motor with control
21082-120	12	A	without motor
21082-1211	12	B	with stepper motor
21082-1221	12	C	stepper motor with control

Specifications

Size	B	B1	B2	D2	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