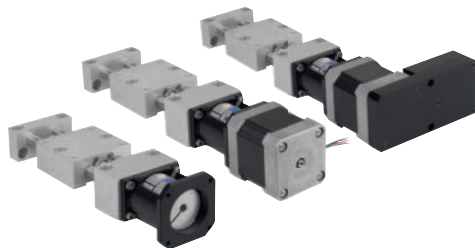


## Positioning stages long

with coaxial electric drive



### 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.

### Sample order:

nIm 21082-080

### Note for ordering:

The unit is supplied with the position of cable outlet or control unit as shown in the drawing. Other combinations can be selected online with our configurator.

### 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 duty cycle of 100%.

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

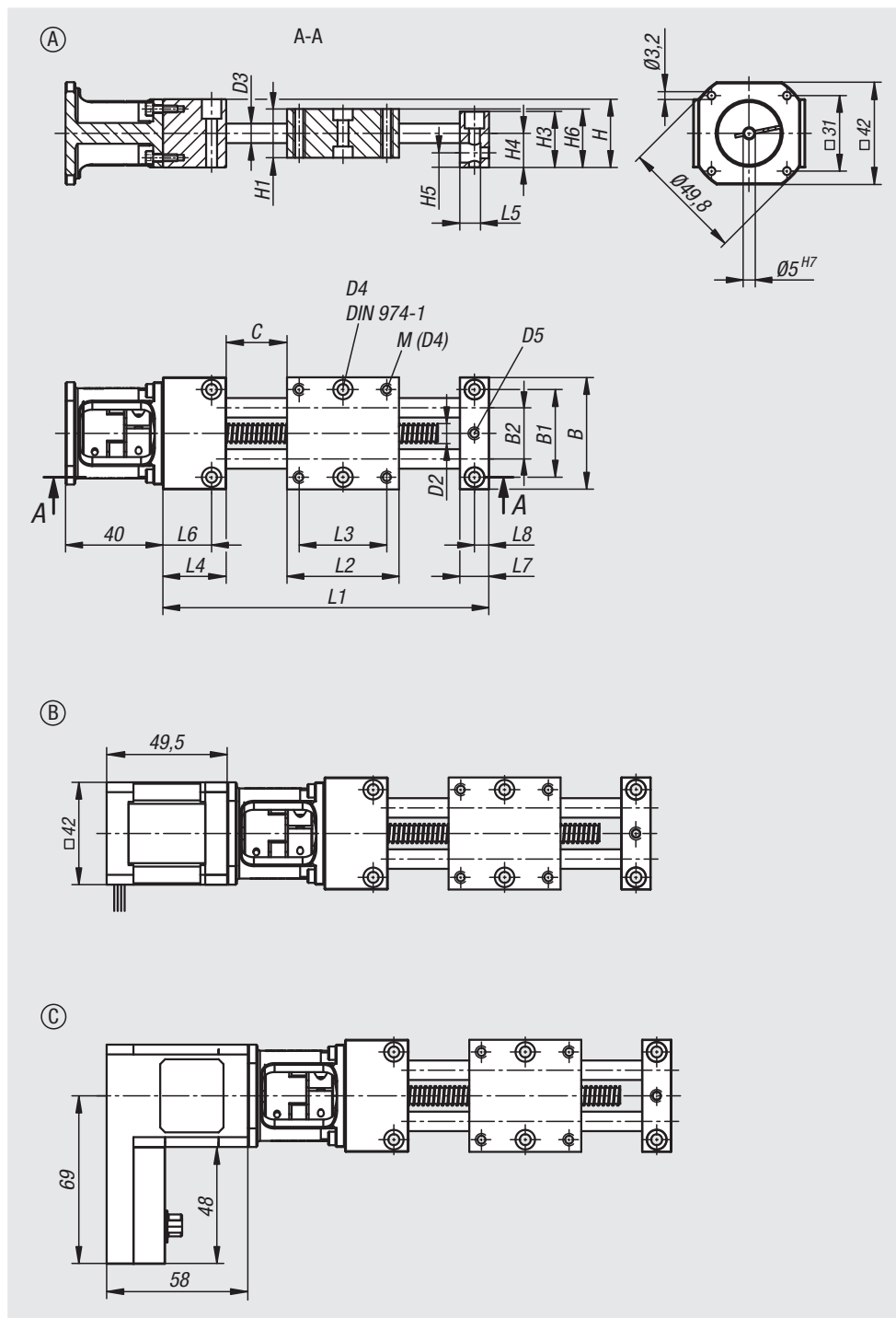
### Technical data:

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

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

# Positioning stages long

with coaxial electric drive



## 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

20000 21000 22000 23000 24000 26000 27000 28000 29000 31000 32000 33000