

Positioning stages short

with lateral 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.
 Toothed belts neoprene, profile 3M.

Version:

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

Sample order:

nIm 21081-0810

Note for ordering:

The unit is supplied with the position of the drive unit, 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.

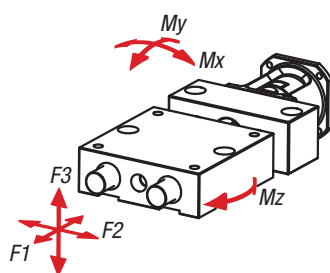
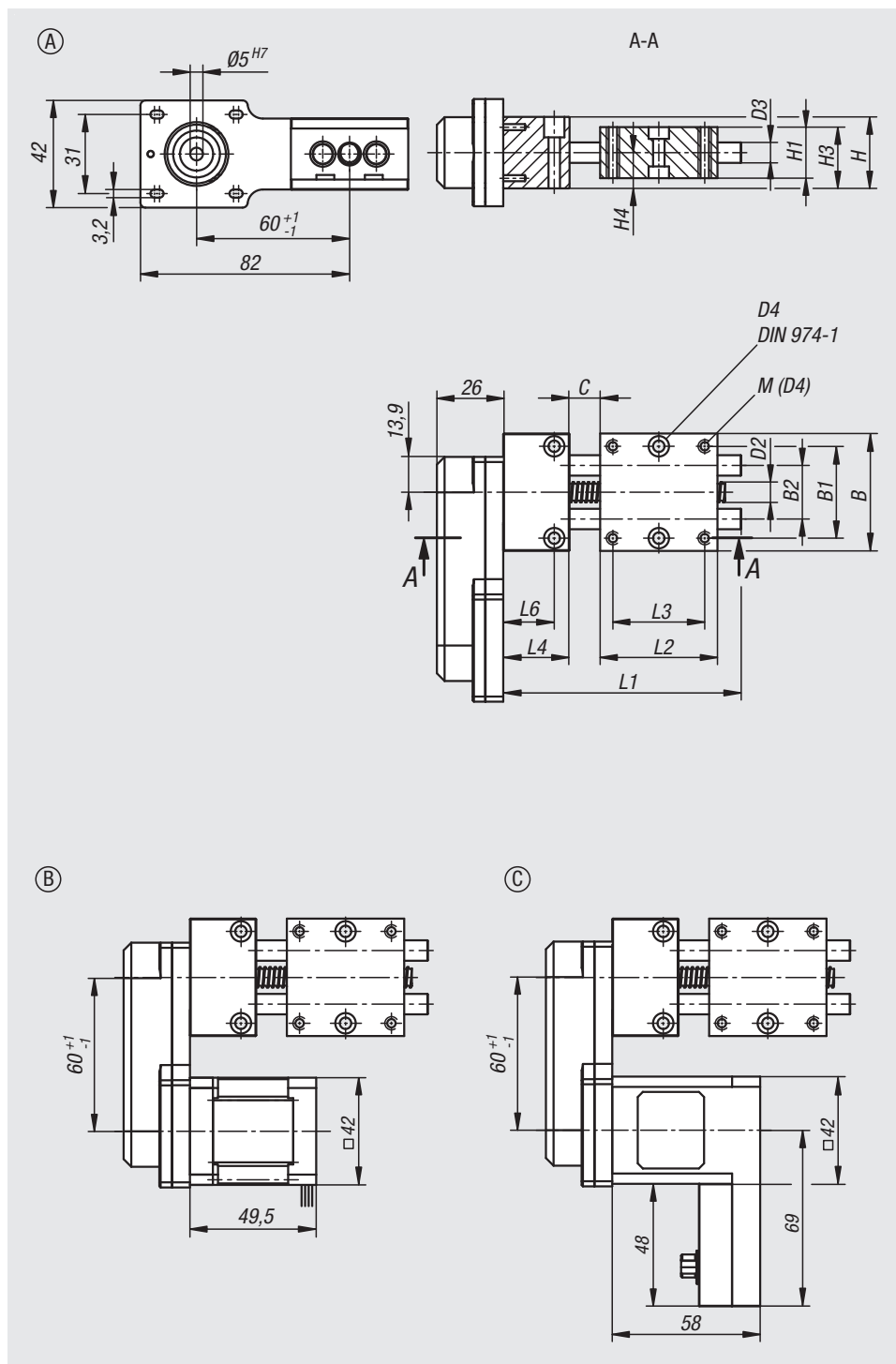
Technical data:

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 |
|-------------|------|------|----------------------------|
| 21081-0810 | 8 | A | without motor |
| 21081-08111 | 8 | B | with stepper motor |
| 21081-08121 | 8 | C | stepper motor with control |
| 21081-1210 | 12 | A | without motor |
| 21081-12111 | 12 | B | with stepper motor |
| 21081-12121 | 12 | C | stepper motor with control |

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Specifications

| Size | B | B1 | B2 | D2 | D3 | D4 | H | H1 | H3 | H4 | L1 | L2 | L3 | L4 | L6 | Travel S |
|------|----|----|----|-----|----|----|------|----|----|------|------|----|----|----|----|----------|
| 8 | 46 | 36 | 21 | 8x2 | 8 | 4 | 28 | 20 | 24 | 14 | 93,5 | 46 | 36 | 26 | 20 | 24 |
| 12 | 75 | 60 | 38 | 8x2 | 12 | 6 | 29,5 | 25 | 28 | 15,5 | 133 | 75 | 60 | 30 | 15 | 30 |

Force tables

| Size | F1 N | F2 N | F3 N | Mx Nm | My Nm | Mz Nm |
|------|------|------|------|-------|-------|-------|
| 8 | 60 | 60 | 30 | 0,5 | 0,5 | 2 |
| 12 | 60 | 100 | 60 | 0,8 | 0,8 | 3 |