

# Vertical stages

with electronic position indicator



**Material:**

Bearing block and carriage aluminium alloy, anodised.  
 Guide columns stainless steel, ground.  
 Spindle stainless steel, rolled thread.  
 Guide bearing maintenance-free.  
 Position indicator plastic.

**Version:**

Guide backlash < 0.05 mm.  
 Spindle self-locking, with additional lock.

**Sample order:**

n1m 21142-08

**Note:**

For height-positioning of components and assemblies of all types (e.g. stops, sensors, limit switches, tables, cameras, entire assemblies, etc.).  
 Electronic position indicator with 0.01 mm display accuracy and large LCD display. Reset, chain dimension and offset settings can be made via the keypad.

2 years battery life. The battery is quick and easy to replace.

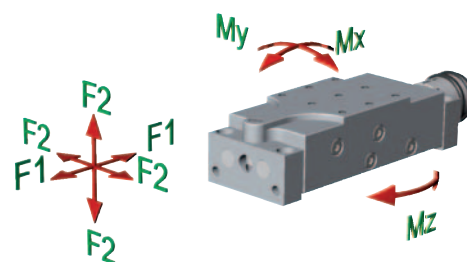
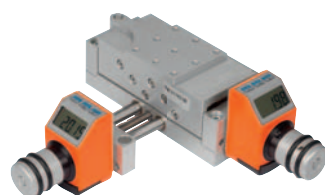
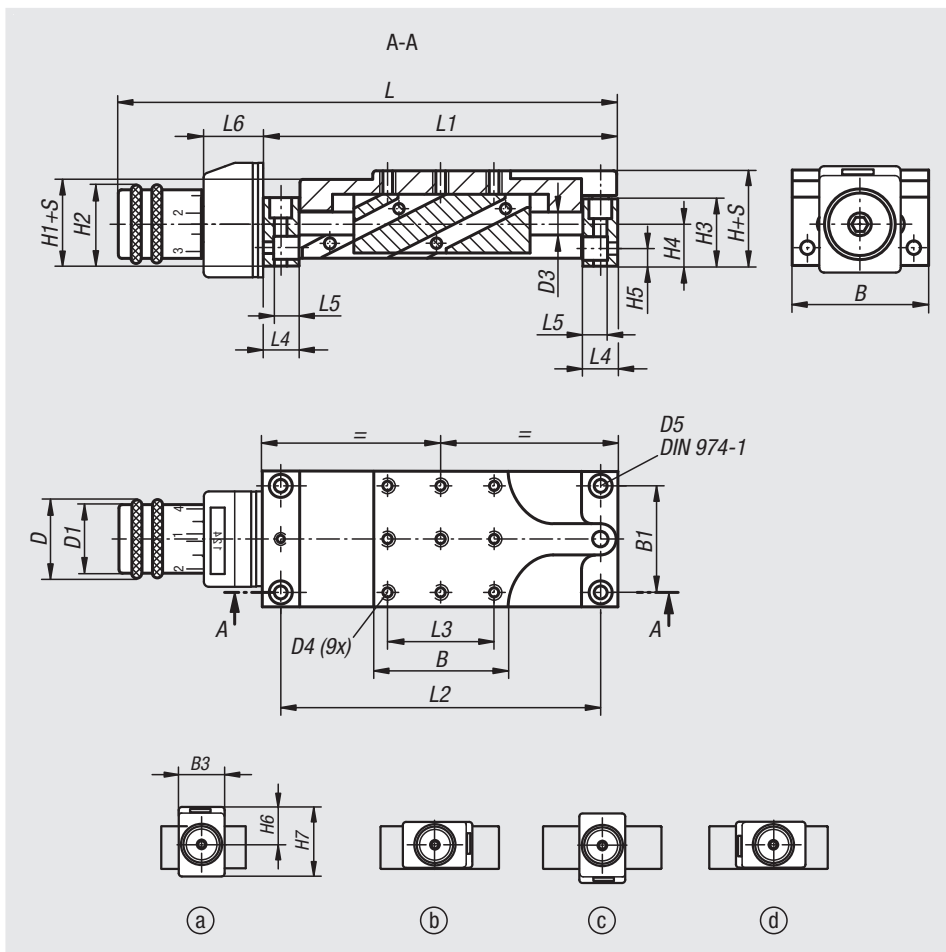
The mounting position of the position indicator is set in 4 positions using one screw.

The modular design enables the vertical stage to be easily combined with positioning stages, cross slides and other accessories of the same size.

**Drawing reference:**

Mounting position of the position indicator:

- a) top (standard)
- b) right
- c) bottom not possible for 21142-25
- d) left



| Order No. | B   | B1  | B3 | D  | D1 | D3 | D4  | D5 | H  | H1 | H2   | H3 | H4   | H5 | H6   | H7   |
|-----------|-----|-----|----|----|----|----|-----|----|----|----|------|----|------|----|------|------|
| 21142-08  | 46  | 36  | 33 | 26 | 23 | 8  | M4  | 4  | 32 | 29 | 27   | 23 | 14   | 6  | 31   | 52   |
| 21142-12  | 75  | 60  | 33 | 26 | 23 | 12 | M6  | 6  | 38 | 36 | 28,5 | 27 | 15,5 | 7  | 31   | 52   |
| 21142-25  | 150 | 130 | 48 | 52 | 46 | 25 | M10 | 10 | 68 | 64 | 54   | 52 | 28   | 13 | 42,4 | 71,4 |

| Order No. | L   | L1  | L2  | L3  | L4 | L5  | L6   | Travel S | F1 N | F2 N | Mx Nm | My Nm | Mz Nm |
|-----------|-----|-----|-----|-----|----|-----|------|----------|------|------|-------|-------|-------|
| 21142-08  | 179 | 120 | 108 | 36  | 12 | 8,5 | 29,4 | 8        | 80   | 100  | 2,5   | 2,5   | 5     |
| 21142-12  | 239 | 180 | 165 | 60  | 15 | 11  | 29,4 | 12       | 150  | 200  | 10    | 10    | 20    |
| 21142-25  | 376 | 290 | 265 | 130 | 25 | 18  | 36,4 | 25       | 500  | 700  | 50    | 50    | 100   |

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