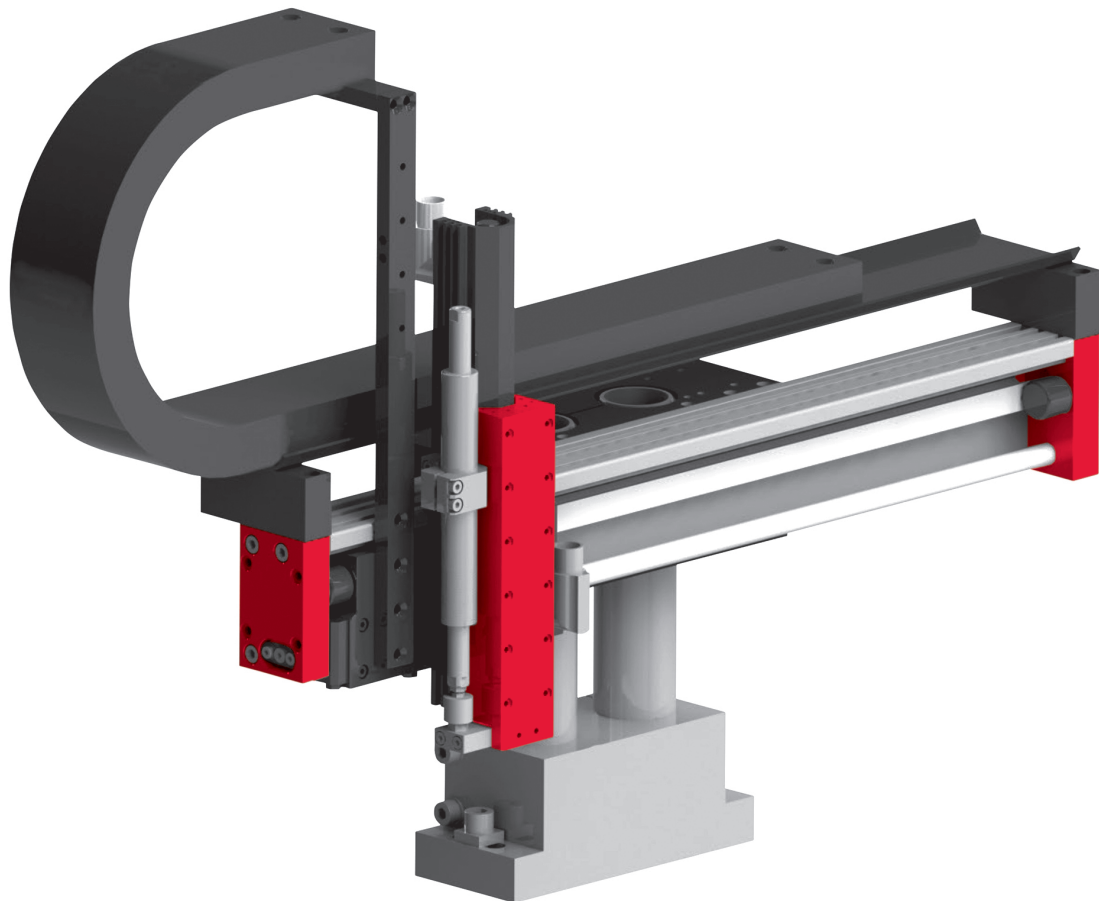


Electrical handling systems

EPS mini XZ



- Compact handling for longer strokes
- Strong alternative to simple toothed belt axes
- Long service life from low-wear setup

Dimensions

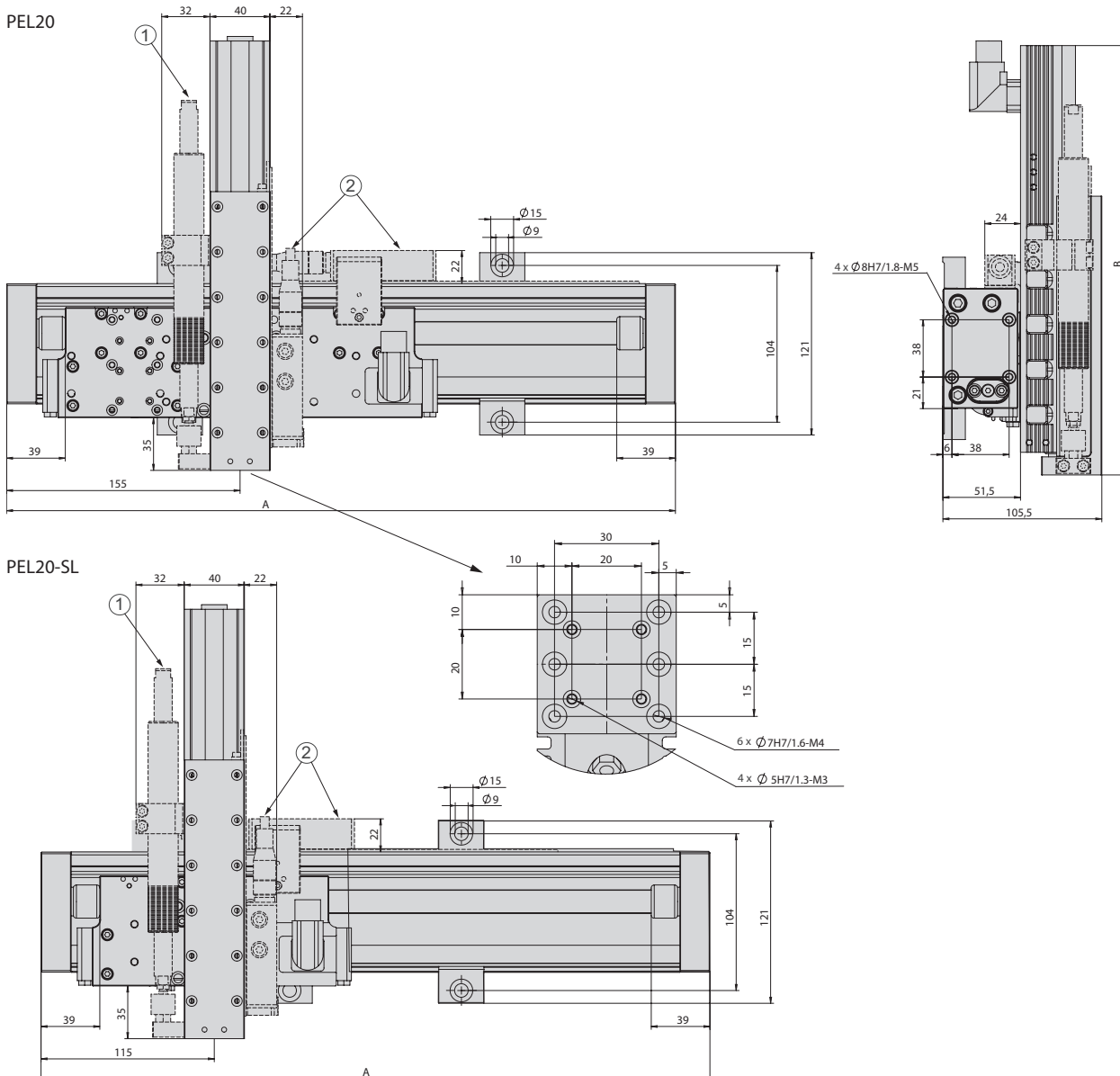
EPS mini XZ

Type	A
PEL20-060	374 mm
PEL20-130	444 mm
PEL20-190	504 mm
PEL20-290	604 mm
PEL20-470	784 mm
PEL20-560	874 mm

Type	A
PEL20-080-SL	314 mm
PEL20-140-SL	374 mm
PEL20-210-SL	444 mm
PEL20-270-SL	504 mm
PEL20-370-SL	604 mm
PEL20-550-SL	784 mm
PEL20-640-SL	874 mm

Type	B
ES20-50-SL	191.5 mm
ES20-100-SL	285 mm
ES20-200	365 mm
ES20-300	495 mm

- ① MagSpring
- ② Path measuring system



EPS mini XZ		
Order number	50444431	
Drive type	electrical, linear motor	
Repeat accuracy	± 0.05 mm	
- with external path measuring system (1 µm)	± 0.02 mm	
Temperature range	0 ... 50 °C	
Control block with 5/3, 5/2 or vacuum units	up to 6 valves	

Type	X-axis	
Axis	PEL20-SL	PEL20
Stroke horizontal	80, 140, 210, 270, 370, 550, 640 mm	60, 130, 190, 290, 470, 560 mm
Maximum speed	6.8 m/s	4.8 m/s
Peak force	67 N	137 N
Permanent force	15 N	31 N

Type	Z-axis	
Axis	ES20	ES20
Stroke vertical	50 mm	100, 200, 300 mm
Maximum speed	6.8 m/s	4.8 m/s
Peak force	67 N	137 N
Permanent force	15 N	31 N

Included in the delivery *

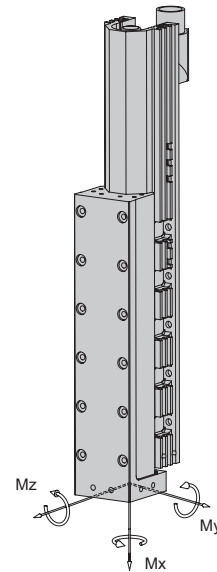
- 2x Ø 5h6 Centring sleeves
- 2x Ø 7h6 Centring sleeves
- 2x Ø 9h7 Centring sleeves
- MagSpring or compensation spring
- Hose or drag chain
- Motor cable
- Completely wired
- Controller parametrised

Accessories

- (Catalogue HT accessories)
- Console
 - Valve block
- (Catalogue HT components linear)
- Path measuring system
- (Catalogue HT components gripping/rotating)
- Rotary module
 - Gripper module

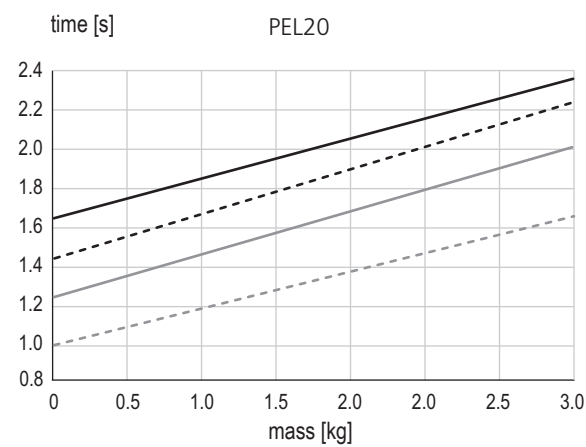
* Deviations possible depending on installed peripherals

Type	ES20-SL	ES20
Dynamic torque Mx	5 Nm	5 Nm
Dynamic torque My	25 Nm	50 Nm
Dynamic torque Mz	25 Nm	50 Nm



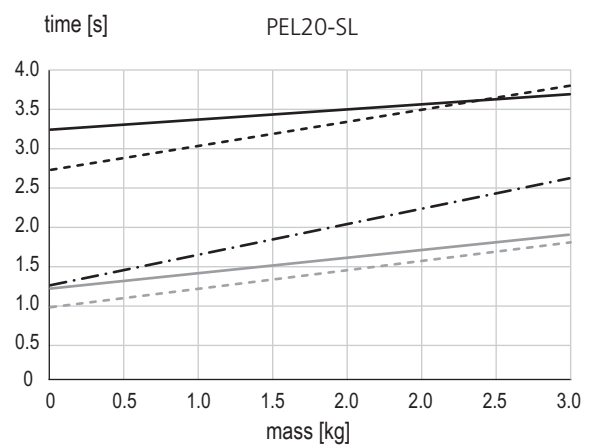
Payload (centric)	
Stroke X	up to 640 mm
Stroke Z	
50 mm	3 kg
100 mm	2 kg
200 mm	1 kg

Cycle times EPS mini XZ for Pick & Place



stroke X/Z

- 500/ 100 ———
- 500/ 50 - - - - -
- 300/ 50 ———
- 100/ 50 - - - - -



stroke X/Z

- 600/ 100 ———
- 600/ 50 - - - - -
- 300/ 500 - · - · - ·
- 100/ 100 ———
- 100/ 50 - - - - -

Times including 2 x 100 ms gripping time

Comment:

The values in the chart correspond to a Pick & Place cycle (6 subsequent movements + 2 x 100 ms gripping time). The indicated mass is centrally installed at the vertical linear unit. Standstill times of handling permit shorter movement times. In exceptions, e.g. at eccentric mass or high requirements to accuracy, the value may be exceeded..