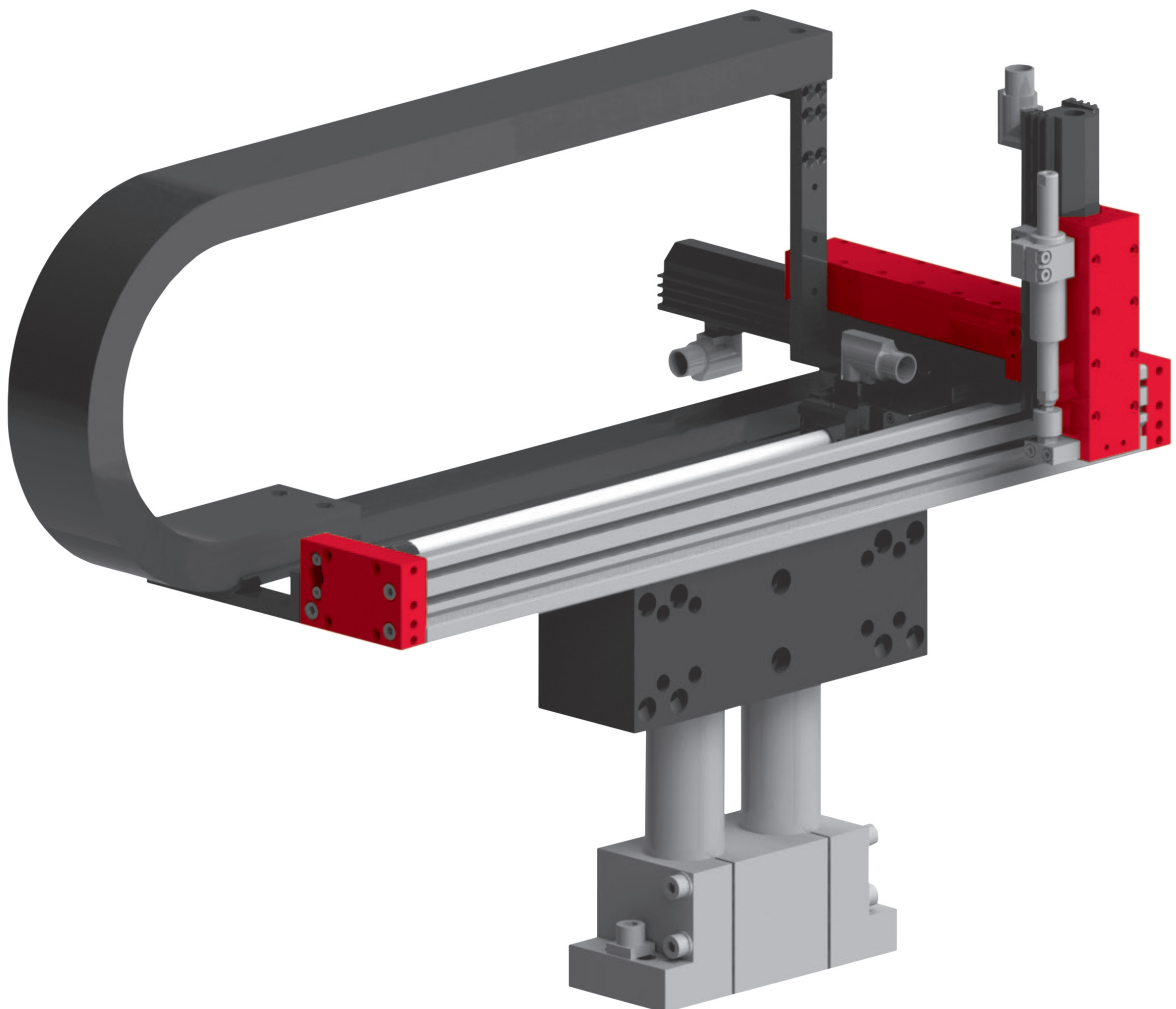


# Electrical handling systems

## EPS mini XYZ



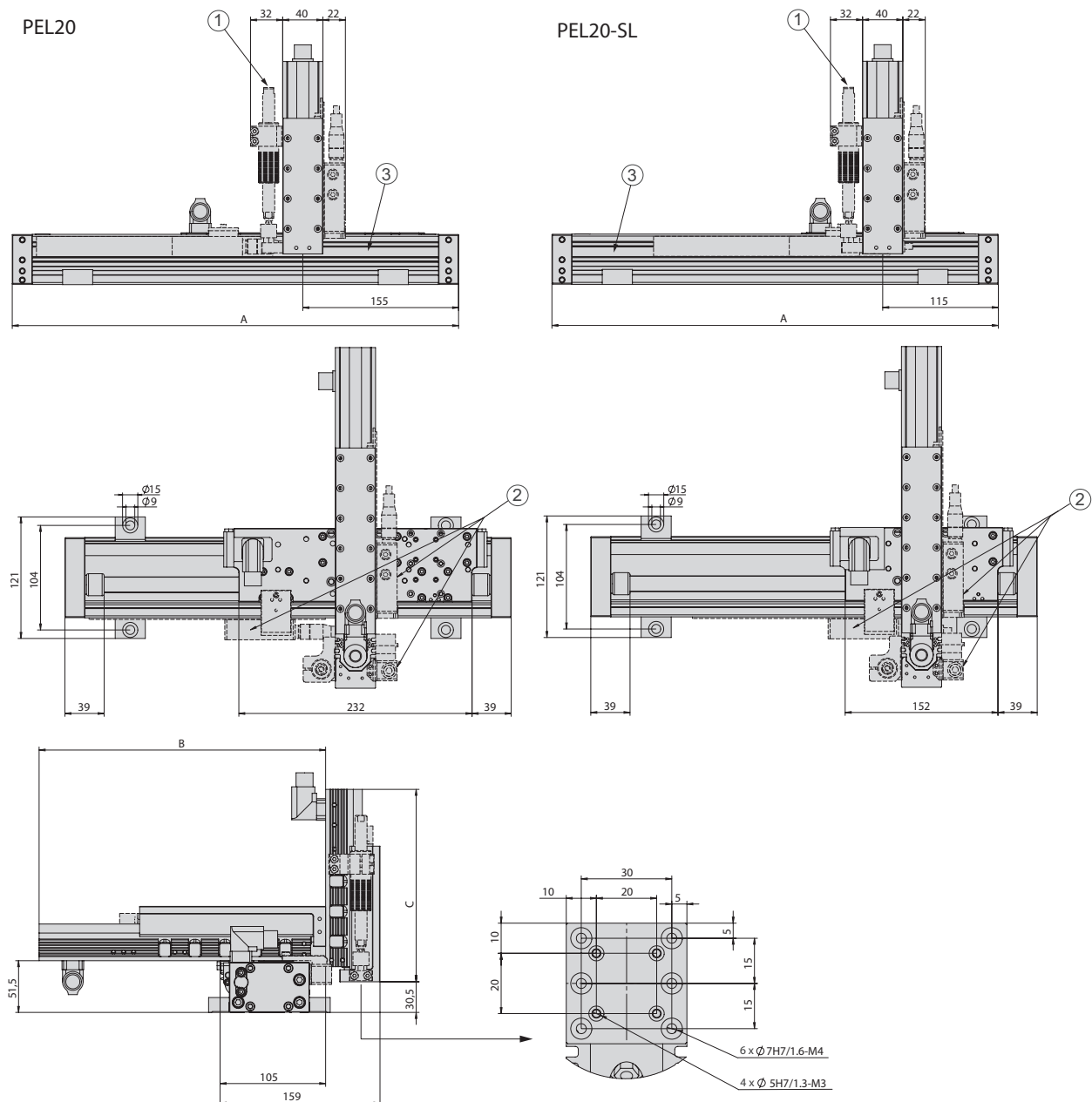
- Simple alternative for small robots
- Can be controlled directly by the PLC
- Scalable size in X, Y, Z, C

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, C
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
- ③ Auxiliary surface (not suitable for assembly)



EPS mini XYZ		
<b>Order number</b>	<b>50444434</b>	
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	Y-axis	
Axis	ES20	ES20
Stroke horizontal	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

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 \*

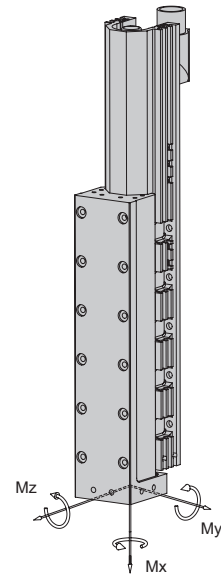
- 2x Ø 5h6 Centring sleeves
- 2x Ø 7h6 Centring sleeves
- 2x Ø 9h7 Centring sleeves
- MagSpring or compensation spring
- Hose or drag chain
- Motor cable
- Completely wired
- Controller parametrised

### Accessories

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

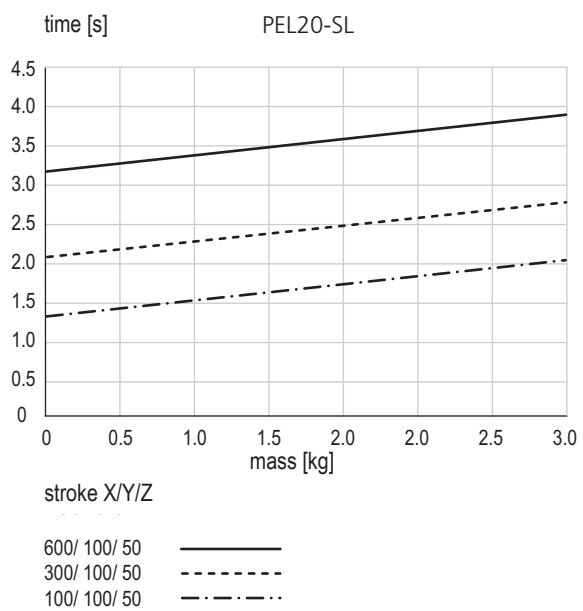
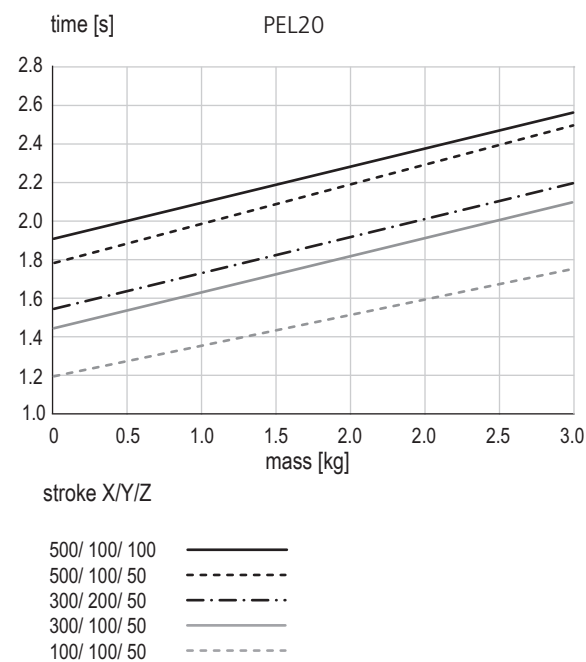
\* Deviations possible depending on installed peripherals

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 Y	50 mm	100 mm	200 mm	
Stroke Z				
50 mm	3 kg	2 kg	1 kg	
100 mm	2 kg	1 kg	0.5 kg	
200 mm	1 kg	0.5 kg	-	

### Cycle times EPS mini XYZ for Pick & Place



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.