

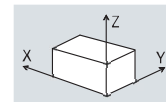
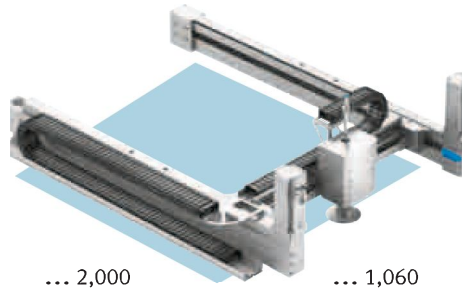
Advanced handling systems

H-gantry EXCH

Technical data – H-gantry

Max. acceleration	50 m/s ²
Max. speed	5 m/s
Repetition accuracy	± 0.1 mm
Absolute accuracy ¹⁾	± 0.5 mm
Path accuracy (< 0.5 m/s)	± 0.5 mm
Max. effective load at the front panel	6 kg

¹⁾ System perfectly aligned and calibrated



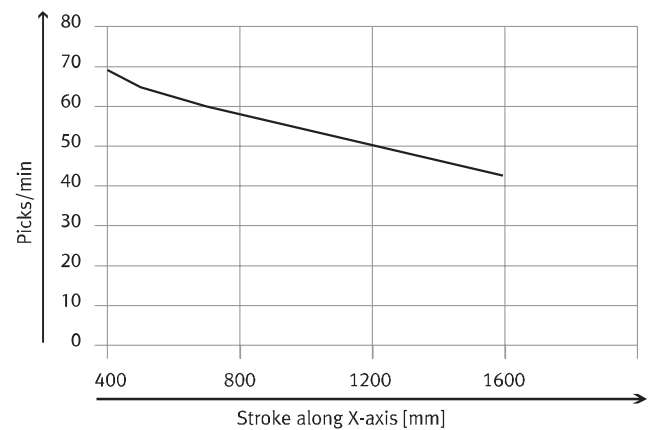
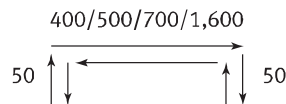
Z-stroke with rotary/lifting module
Optionally with Z-stroke,
e.g. rotary/lifting module

Pick rate as a function of the horizontal stroke along the X-axis

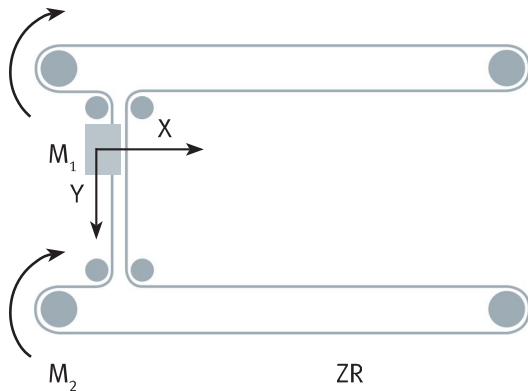
Stroke along X-axis [mm]	Pick rate [picks/min]	Cycle time [ms]
400	69	870
500	65	920
700	60	1,000
1,600	43	1,385

- The specified cycle rate refers to a double stroke
- Gripping and waiting times are not taken into consideration

Double stroke cycle [mm]:



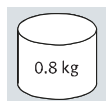
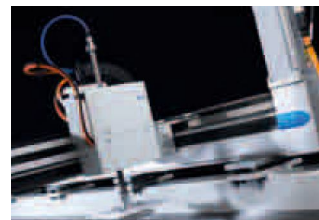
Function



The kinematic chain

- 2 stationary servo motors M1 and M2
- 1 rotating toothed belt ZR
- 2 very rigid X-axes, 1 very rigid Y-axis

Rotary/lifting module



Technical data

Max. effective load
Max. vertical force
Nominal force
Max./nominal torque
Perm. mass moment of inertia

general

0.8 kg
480 N
97 N
2.8 Nm/0.56 Nm
400 kg mm ²

Work range
Repetition accuracy
Max. speed

Z-axis

200 mm
< 0.01 mm
1 m/s

Axis of rotation

± 360°
< 0.1°
21,000°/s