



## LR-HD

“High Dynamic” linear robot

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### DESCRIPTION

Highly dynamic 3-axis linear robot with toothed-rack drive, of robust construction and high rates of acceleration, for high precision application of reactive polymer materials. A keyboard-operated, dialog/menu-based system is used to run, program and control the machine. The operating data is displayed on a screen fitted to the central dosing and mixing control unit. The system is designed for applications that involve high speed processing combined with rapid changes in direction.

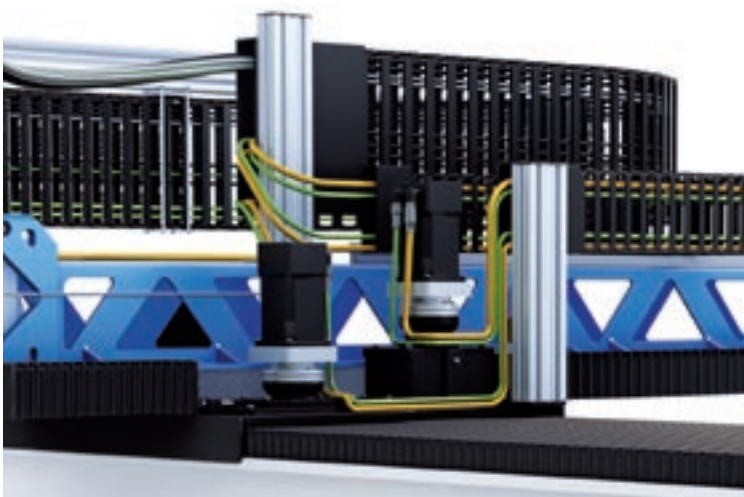
- Chassis section based on a robust welded steel-frame construction, supplied coated and fitted with adjustable leveling feet and floor-anchoring points
- Guide system with maintenance-free, low-wear linear bearings, designed for high-load operation
- Guide elements covered with protective bellows
- High dynamic AC servo and toothed-rack drives
- Torsion-resistant precision transmissions and clutches
- Mechanical end-limit and referencing switches
- Use of supply-line guide chains, for the securing of compressed-air, electrical and hydraulic power lines
- Traversing control integrated in central mixing and dosing unit “IPC” control
- Multi-function Teach-In-Box

### TECHNICAL SPECIFICATIONS

• Max. sliding speed:	58 m/min
• Max. acceleration:	10 m/s <sup>2</sup>
• Positioning accuracy:	+/- 0.05 mm
• Traverse repeating accuracy:	0.08 mm
• Load capacity:	20 kg
• Coating – Chassis section:	2-component industrial grade coating, RAL 7035 (light grey)
• Electrical system:	according to EN 60 204-1 standard
• Power supply:	3 x 400 V, 50 Hz or 60 Hz or according to country specification
• Rated capacity:	approx. 2 kVA
• Average power consumption:	approx. 1 kVA

### VARIANTS

- LR-HD 800 x 600 x 300 mm (x/y/z)
- LR-HD 1.000 x 1.000 x 300 mm (x/y/z)
- LR-HD 2.000 x 1.000 x 300 mm (x/y/z)
- LR-HD 2.500 x 1.000 x 300 mm (x/y/z)
- LR-HD 3.000 x 1.000 x 300 mm (x/y/z)
- Optional Y-axis 1.250 or 1.500 mm
- Optional Z-axis 150 or 500 mm
- Further technical information are available upon request



3-axis linear robot with toothed-rack drive