

SONDERHOFF LR-HD / LR-HE plus / MKVE

Linear robot and traversing unit



SONDERHOFF LR-HD

Linear robot “High Dynamic”

Highly dynamic 3-axis linear robot for the precise traversing of mixing heads for the application of polymeric reactive materials. The toothed-rack drive with high stiffness and acceleration enables dynamic high-speed processing combined with rapid changes in direction and small radii.



DESCRIPTION

- › Operation, programming, visualization and control by dialogue input in menu technology with the multifunctional Teach-In-Box SONDERHOFF MP for dosing system and robot
- › Traversing control by the central IPC control of the mixing and dosing system
- › Base frame on a robust welded steel-frame construction, with painted screwable foot frame, fitted with adjustable leveling feet and preparation for floor anchoring
- › Guide system with low-wear linear bearings, designed for high-load operation
- › Guide elements covered with protective bellows
- › Highly dynamic AC servo and toothed-rack drive (X- and Y-axes) / spindle drive (Z-axis)
- › Torsion-resistant precision gears and clutches
- › Energy guiding chain to accommodate all pneumatic, electric and hydraulic lines

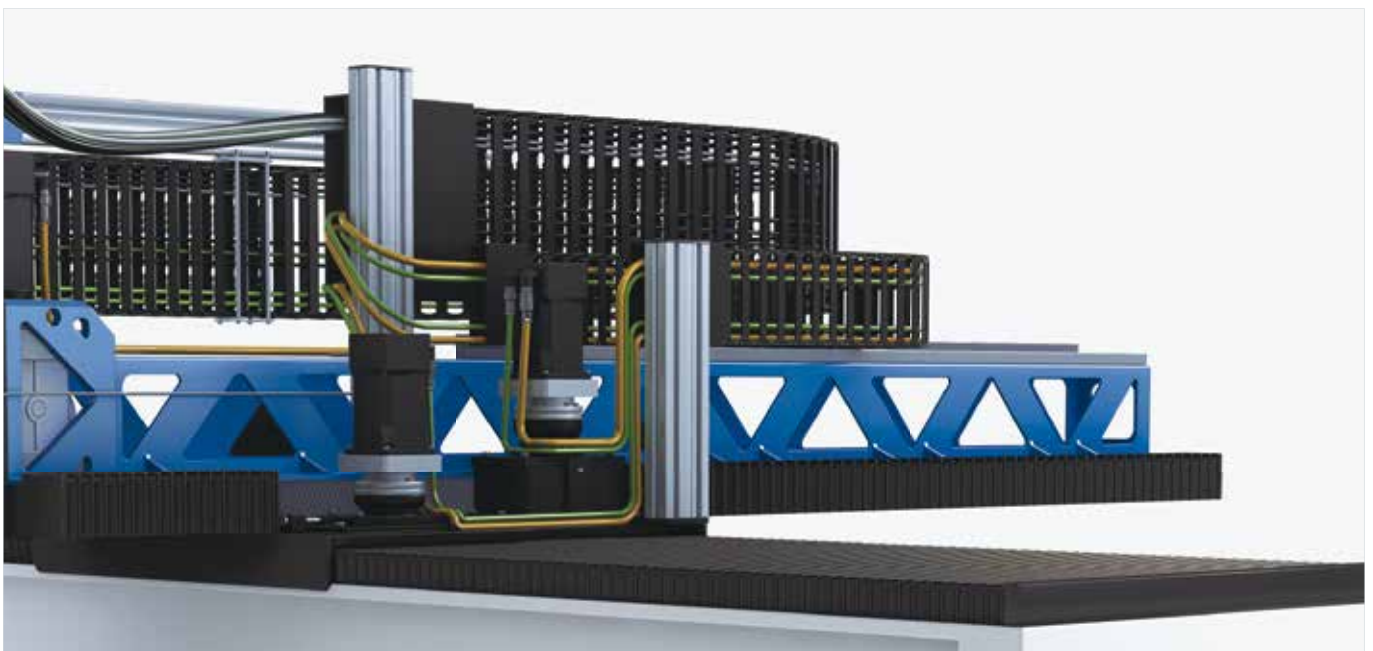
TECHNICAL DATA

- › Max. traversing speed: 58 m/min
- › Max. acceleration: 10 m/s²
- › Repeating accuracy: ±0.08 mm
- › Load capacity: 20 kg
- › Painted base frame: 2-component industrial grade paint, RAL 7035 (light grey)
- › Electrics: design according to EN 60 204-1 standard
- › Power supply: 3 x 400 V, 50 Hz or 60 Hz or country-specific adaptation
- › Rated power: approx. 2 kVA
- › Average consumption: approx. 1 kVA

VARIANTS TRAVERSING RANGE

- › 800 x 600 x 300 mm (X/Y/Z)
- › 1,000 x 1,000 x 300 mm (X/Y/Z)
- › 1,500 x 1,000 x 300 mm (X/Y/Z)
- › 2,000 x 1,000 x 300 mm (X/Y/Z)
- › 2,500 x 1,000 x 300 mm (X/Y/Z)
- › 3,000 x 1,000 x 300 mm (X/Y/Z)
- › Optional Y-axis 1,250 or 1,500 mm
- › Optional Z-axis 500 mm
- › Further technical data or special sizes on request

3-axis linear robot SONDERHOFF LR-HD with toothed-rack drive



SONDERHOFF LR-HE plus

Linear robot “High Efficiency”

Highly efficient 3-axis linear robot for the precise traversing of mixing heads for the application of polymeric reactive materials. The Omega toothed-belt drive enables high-speed traversing for components with medium and large radii.



DESCRIPTION

- › Operation, programming, visualization and control by dialogue input in menu technology with the multifunctional Teach-In-Box SONDERHOFF MP for dosing system and robot
- › Traversing control by the central IPC control of the mixing and dosing system
- › Base frame on a robust welded steel-frame construction, with painted screwable foot frame, fitted with adjustable leveling feet and preparation for floor anchoring
- › Guide system with low-wear linear bearings
- › AC servo-drives on each axis and Omega toothed-belt drive (X- and Y-axes) / spindle drive (Z-axis)
- › Precision gears on the X-, Y- and Z-axes
- › Energy guiding chain to accommodate all pneumatic, electric and hydraulic lines

TECHNICAL DATA

- › Max. traversing speed: 35 m/min
- › Max. acceleration: 5 m/s²
- › Repeating accuracy: ±0.1 mm
- › Load capacity: 20 kg
- › Painted base frame: 2-component industrial grade paint, RAL 7035 (light grey)
- › Electrics: design according to EN 60 204-1 standard
- › Power supply: 3 x 400 V, 50 Hz or 60 Hz or country-specific adaptation
- › Rated power: approx. 2 kVA
- › Average consumption: approx. 1 kVA

VARIANTS TRAVERSING RANGE

- › 1,000 x 1,000 x 300 mm (X/Y/Z)
- › 1,500 x 1,000 x 300 mm (X/Y/Z)
- › 2,000 x 1,000 x 300 mm (X/Y/Z)
- › 2,500 x 1,000 x 300 mm (X/Y/Z)
- › 3,000 x 1,000 x 300 mm (X/Y/Z)
- › Optional Y-axis 1,250 mm
- › Optional Z-axis 500 mm
- › Further technical data or special sizes on request

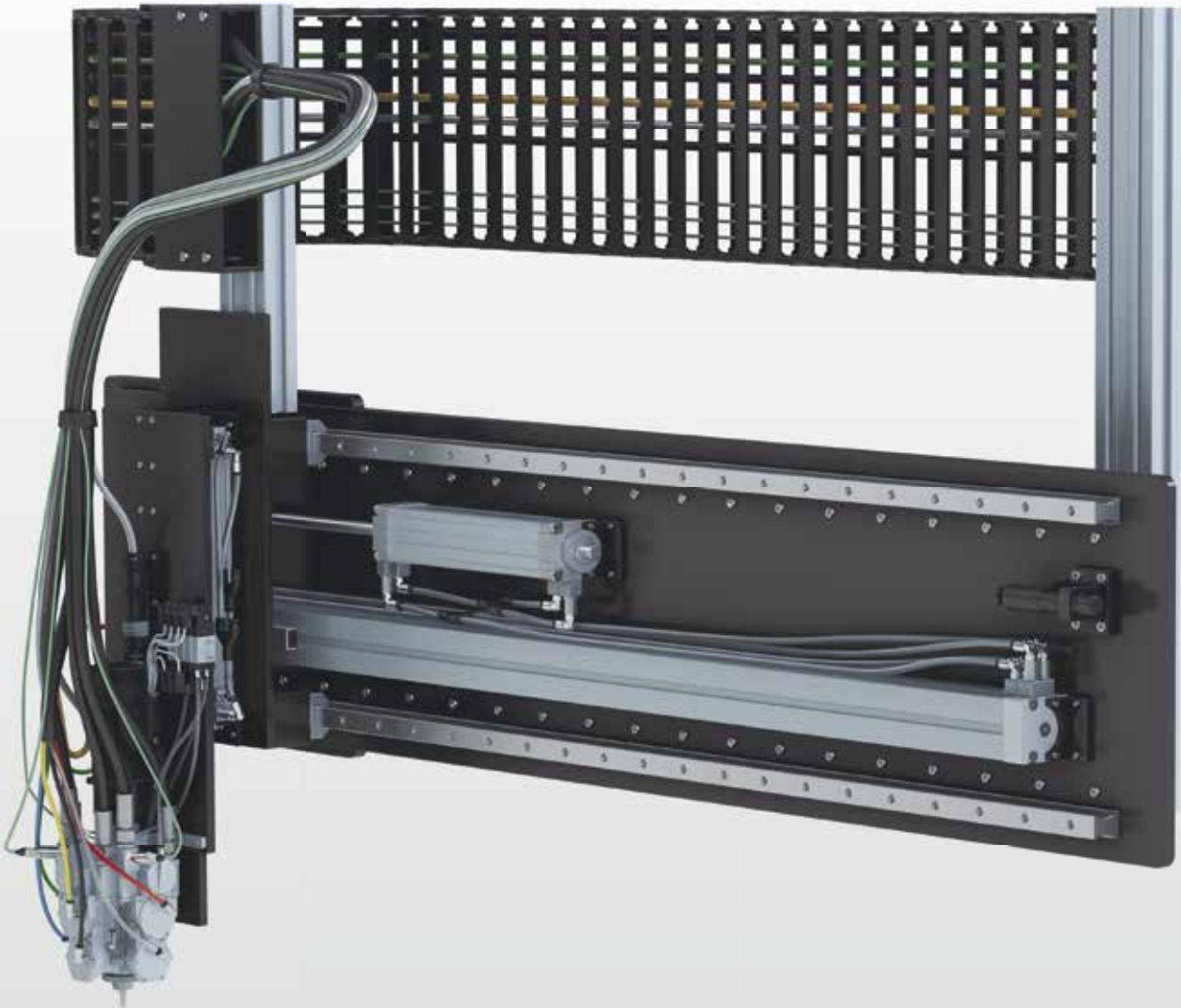
3-axis linear robot SONDERHOFF LR-HE plus with Omega toothed-belt drive



SONDERHOFF MKVE

Mixing head traversing unit

2-axis traversing unit for the precise positioning of mixing heads to different positions for the application of polymeric reactive materials – optionally with electric or pneumatic drive.



DESCRIPTION

- > Operation, programming, visualization and control by dialogue input in menu technology with the multifunctional Teach-In-Box SONDERHOFF MP for dosing system and robot
- > Pneumatically driven X-axis with three positions, Z-axis with two positions
- > Combinable drive types (pneumatic or electric), end position corresponds to working position
- > Electrical axes with controlled servo-drives for freely programmable working positions
- > Control by the central IPC control of the mixing and dosing system
- > Base frame on a robust welded and painted steel-frame construction
- > Guide blocks with low-wear linear bearings
- > Energy guiding chain for the use of all sizes of the mixing head traversing unit to accommodate all pneumatic, electric and hydraulic lines

TECHNICAL DATA

- > Load capacity: 20 kg
- > Painted base frame: 2-component industrial grade paint, RAL 7035 (light grey)
- > Electrics: design according to EN 60 204-1 standard
- > Power supply: 3 x 400 V, 50 Hz or 60 Hz or country-specific adaptation
- > Rated power: approx. 2 kVA
- > Average consumption: approx. 1 kVA
- > Pneumatic supply rating: 6 – 7 bar at approx. 400 L/min.

PNEUMATIC VERSION

- > Pneumatic drive with double stroke piston and three adjustable stop dampers for fixing the rinsing, filling shot and dosing position
- > Z-axis module, with stroke of 150 mm, lower position with stop damper
- > Max. traversing speed: approx. 24 m/min.
- > Max. acceleration: approx. 1 m/s²
- > Repeating accuracy: ±0.15 mm

ELECTRICAL VERSION

- > AC servo-drives on each axis, with spindle drive on the X- and Z-axes
- > Max. traversing speed: approx. 37 m/min.
- > Max. acceleration: approx. 2 m/s²
- > Repeating accuracy: ±0.1 mm

VARIANTS TRAVERSING RANGE

- > 600 x 150 mm (X/Z)
- > 800 x 150 mm (X/Z)
- > 1,000 x 150 mm (X/Z)

OPTIONS

- > Levelling plate
- > Pedestal with floor anchoring
- > Multifunctional teach-in box
- > Mixing head swivel device, X-axis direction 30°
- > Mixing head swivel device Y-axis direction 10°
- > Manual Z-axis, stroke max. 150 mm
- > Special sizes on request

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