

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 2 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 2 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

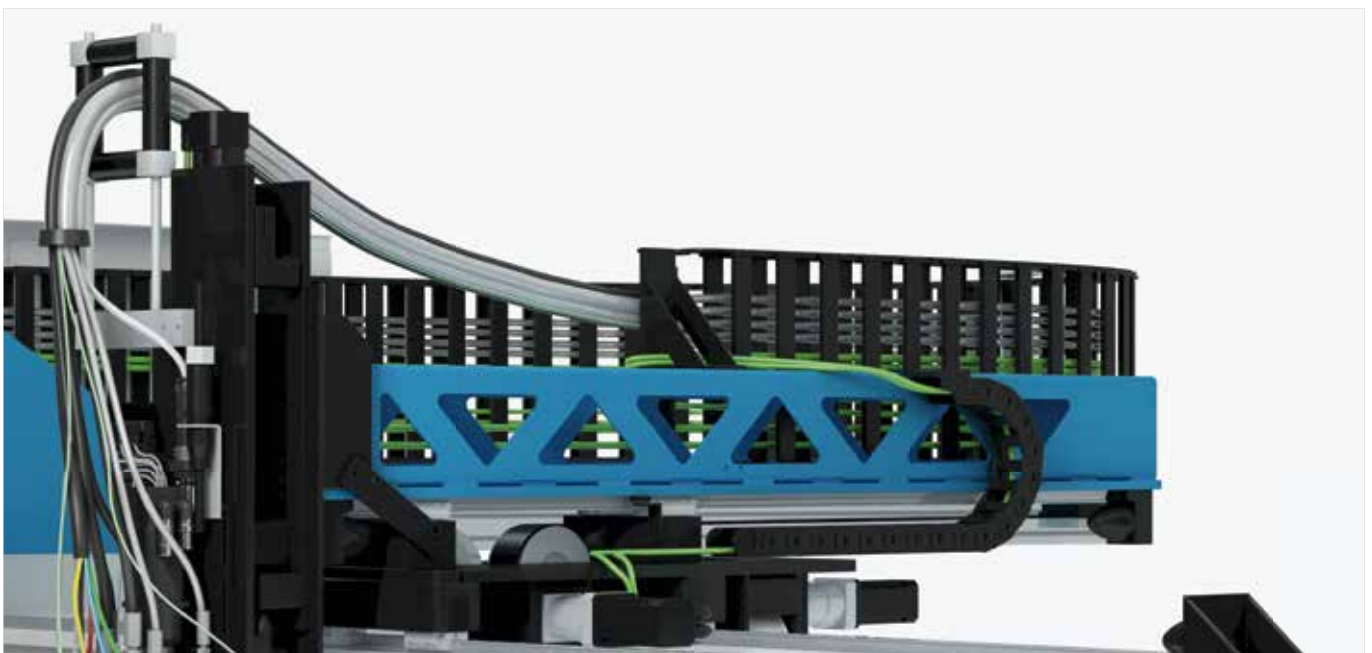
TECHNICAL DATA

- › 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

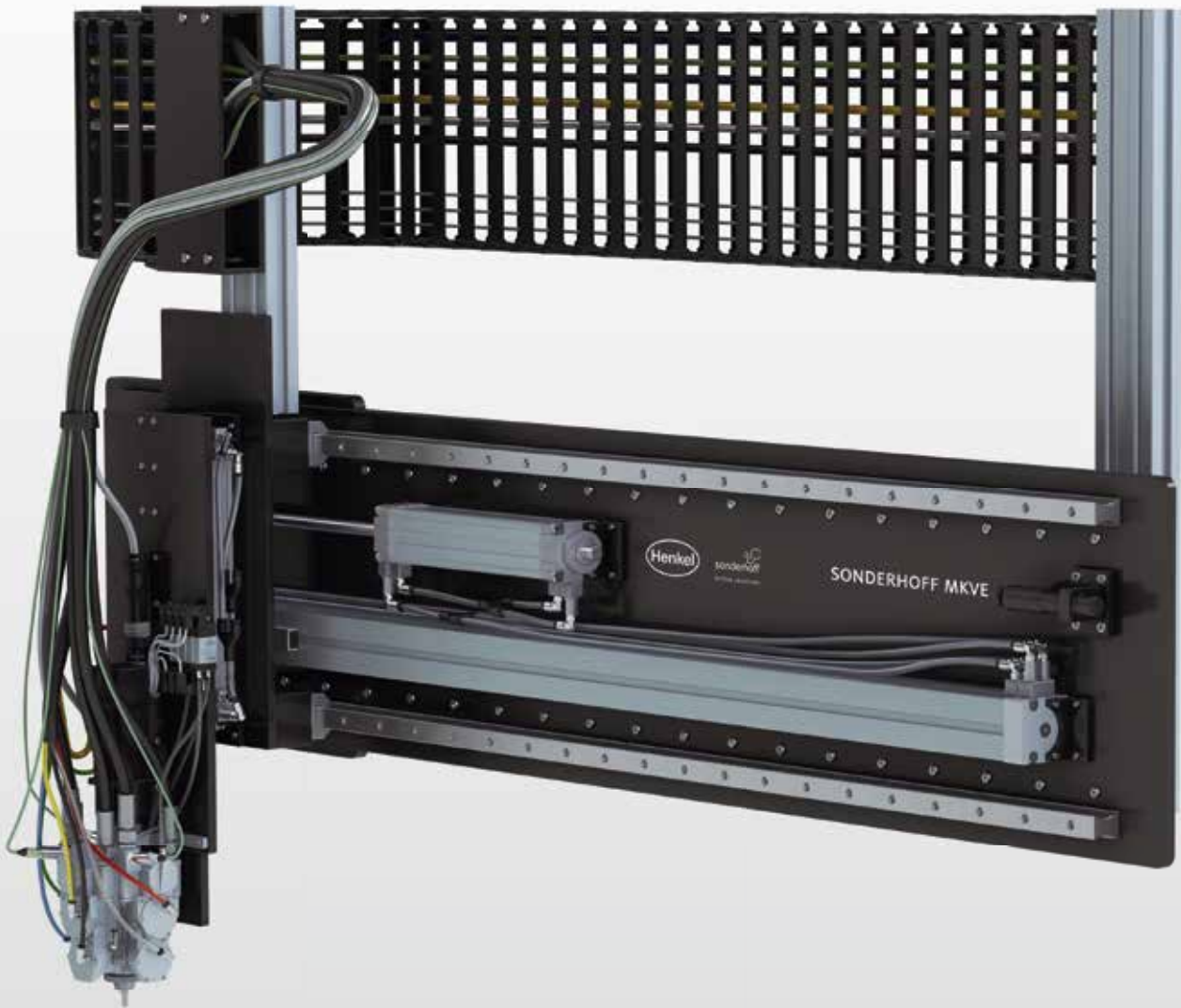
3-axis linear robot SONDERHOFF LR-HE plus with Omega toothed-belt drive



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 2 for dosing system and robot
- > Pneumatically driven X-axis with three positions, Z-axis with two positions, fixed on robust aluminum plates
- > 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
- > Versatile mounting options, usually on a mounting column made of steel profile tube
- > 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
- > Robust aluminum plates (support for the SONDERHOFF MKVE), anodized black (color similar to RAL 9005)
- > 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

Henkel AG & Co. KGaA

Henkelstraße 67
40589 Düsseldorf
Germany
Tel.: +49 211 797-0
Fax: +49 211 798 4008

www.henkel.com
www.henkel-adhesives.com
www.sonderhoff.com

Get in contact with us



The description of the possible fields of use of our products as well as the technical data and values only have a general character and do not mean that a certain product can be used under all conditions in the respective field of use. In this respect, the stated field of use is not a binding specification or usage provision. Due to the great number of environment variables and their influences (e.g. temperature, test specimens, size, interaction with substrates, influence of machines, or the like) you as our customer must check whether the product is suitable for your specific field of use. We will be pleased to assist and advise you in this respect.

Except as otherwise noted, all marks used above are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S., Germany and elsewhere.

© 2020 Henkel AG & Co. KGaA. All rights reserved.