



MKVE

Mixing head traversing unit



AUTOMATED SEALING SOLUTIONS

Mixing head traversing unit

DESCRIPTION

Two-way traversing unit with selectable electrical or compressed-air drive system, whereas the two drive systems can be combined as required. The pneumatic X-axis covers three positions, the Z-axis two and the operating position equals the end-position in each case. The electrical axes are actuated by regulated servo drives, allowing the operating positions to be programmed as desired. A keyboard-operated, dialog/menu-based system is used to run, program and control the machine – while the operating data is displayed on a screen fitted to the central dosing and mixing control unit. The system is designed for use in situations where the mixing head needs to traverse along a straight line.

- Chassis section based on a robust welded steel-frame construction, supplied coated and fitted with adjustable leveling feet and floor-anchoring points
- Guide blocks with maintenance-free, low-wear linear bearings
- Supply-line guide chains are used on all sizes of the mixing-head traversing unit to secure the compressed-air, electrical and hydraulic power lines
- Control via the “IPC” unit in the dosing and mixing unit
- Control unit and all electrical subassemblies are installed in the switchgear cabinet of the dosing and mixing unit

TECHNICAL SPECIFICATIONS

• Load capacity:	20 kg
• Coating – Chassis section:	2-component industrial grade coating, RAL 7035 (light grey)
• Electrical system:	according to EN 40 439-1 and EN 60 204-1 standards
• Mains power supply:	3 x 400 V, 50 Hz or 60 Hz, TT or TN network
• Rated capacity:	approx. 2 kVA
• Average consumption:	approx. 1 kVA
• Compressed-air supply rating:	6 - 7 bar at approx. 400 l/min

PNEUMATIC SYSTEM

- A Pneumatic drive system with double reciprocating piston and three adjustable fixed-stop dampers is used to establish the purging, filling and dose positions
- Z-axis module, with stroke of 150 mm, lower pos. with damper
- Max. traversing speed: approx. 24 m/min
- Max. acceleration (pneumatic axis): approx. 1 m/s²
- Repeating accuracy (pneumatic axis): +/- 0.15 mm

ELECTRICAL SYSTEM

- AC servo drives on each axis, with spindle drive with shaft joint on the X-axis and toothed-rack drive on the Z-axis
- Precision transmissions on the Z-axis
- Mechanical end-limit and referencing switches on the axes
- Max. traversing speed: approx. 37 m/min
- Max. acceleration (electrical axis): approx. 2 m/s²
- Repeating accuracy (electrical axis): +/-0.1 mm

VARIANTS

- Mixing head traversing unit 600 x 150 mm (x/z)
- Mixing head traversing unit 800 x 150 mm (x/z)
- Mixing head traversing unit 1.000 x 150 mm (x/z)

OPTIONS

- Levelling plate
- Multi-functional Teach-In-Box
- Mixing head swivelling device, 30° on the X-axis
- Mixing head swivelling device, 10° on the Y-axis
- Manual Z-axis, max. stroke 150 mm
- Z-axis 80 mm
- Special sizes are available on request

* In dependence of the mixing ratios, material viscosities and the adaptation of pumps, tubes and mixing elements.

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