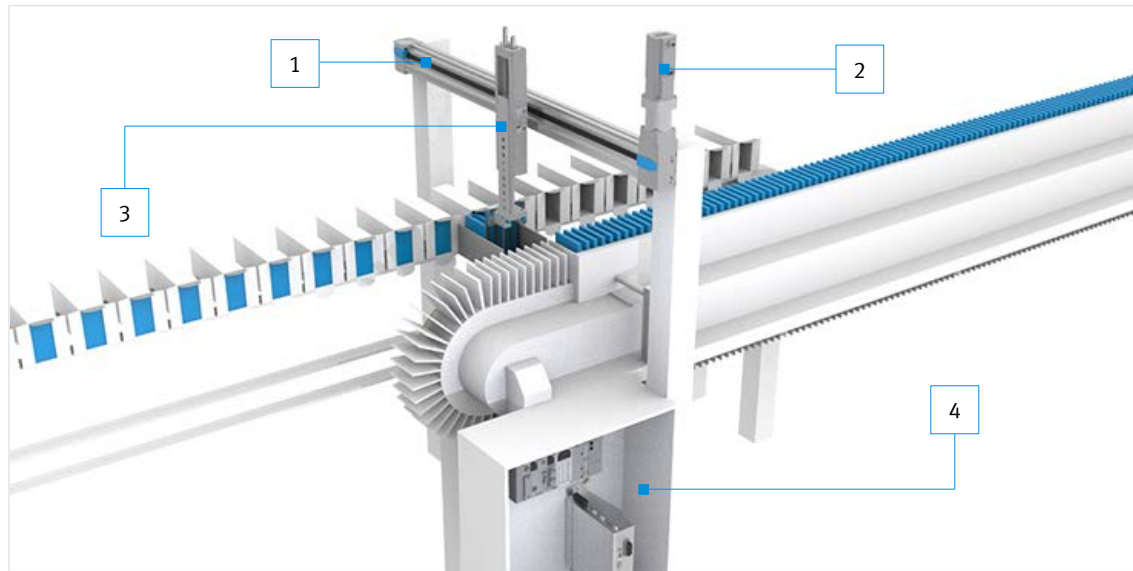


Automation solution: Side loader



Highlights

- Clever mix of pneumatic and electric drive technology
- Reduced space requirement thanks to decentralised installation concept CPX-MPA
- Various solutions for different tasks and requirements

Project idea

Single side loader with possible adaptations in terms of mass and dynamic response

Requirements

- High throughput and high speed when packaging
- Speed- and force-controlled
- Precision as well as load capacity
- Modularity

Solution

- 1 Linear drive EGC-TB or heavy-duty axis EGC-HD for higher loads
- 2 Stepper motor EMMS-ST or servo motor EMME-AS for increased dynamic response
- 3 Pneumatic mini-slide DGSL
- 4 In the control cabinet: automation platform CPX and motor controller CMMS-ST or CMMP

Side loader: Products and solutions



Toothed belt axis EGC-TB

- Dynamic and fast
- Profiles with an optimised cross section for maximum rigidity and load capacity
- Motor can be attached on 4 sides, freely selectable



Pneumatic mini-slide DGSL

- Unique in its precision and load capacity
- Compact design
- Easy to install
- Versatile adaptation options



Stepper motor EMMS-ST

- With a long service life and a full range of positioning functions
- With optional brake
- Improved and optimised connection technology
- Double-line hybrid stepper motor with high torque and a high protection class



Motor controller CMMS-ST

- Extremely small dimensions
- Can be operated as a torque, speed or position controller
- Integrated position control
- Time-optimised (trapezoidal) or jerk-free (S-shaped) positioning
- Point-to-point positioning, with and without motion smoothing



Terminal CPX

- Electrical protection class IP65
- Maximum function integration for complete applications
- Falling installation costs and rising productivity
- Decentralised and networked intelligence with embedded CODESYS controller
- Industry 4.0 thanks to OPC UA and CODESYS control V3

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Side loader: Variants for powerful and dynamic tasks



Electric heavy-duty axis EGC-HD

- High load-bearing capacity laterally to axis Mx (factor of 2 compared to standard axis)
- Very high rigidity with a low dead weight: optimised aluminium profile and flow of forces
- Load closer to the double guide: smaller lever arms for highest torques and large maximum load
- Motor mounting on both sides (right/left) and both ends of the toothed belt axis; motor position can be altered at any time



Servo motor EMME-AS

- 8 output classes ranging from 100 to 2,000 W
- Always fits thanks to universally compatible interfaces
- Digital absolute displacement encoder for single-turn or multi-turn
- Maintenance-free operation thanks to life-time bearing lubrication
- High degree of protection IP65 for motor housing and connection technology



Motor controller CMMP

- Compact
- Path interpolation
- Electrical cam control
- Optional: Performance Level e (PL e) and safe motion function

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