



NEW

Area Gripping Systems FA-X / FA-M

Maximum efficiency with minimal consumption

Optimized for sustainable processes and versatile material handling: whether palletizing, depalletizing, picking or sorting – a variety of processes can be automated with just one gripper. With the vacuum area gripping systems FA-X with integrated vacuum generation and FA-M for external vacuum generators, workpieces made of different materials and with varying dimensions can be handled with precision. The result: maximum flexibility for a wide range of applications in wood processing, logistics or packaging processes, easy to integrate and efficient to implement.



**Easy
maintenance.**

Easily accessible ejector and sealing foam with quick-change adhesive film reduces downtimes



**Low energy
consumption.**

Reduced costs due to 80 % less energy consumption thanks to individually switchable ejector nozzle banks



**Optimized user
experience.**

Receive important system information via a large integrated LED display

Area Gripping Systems FA-X / FA-M

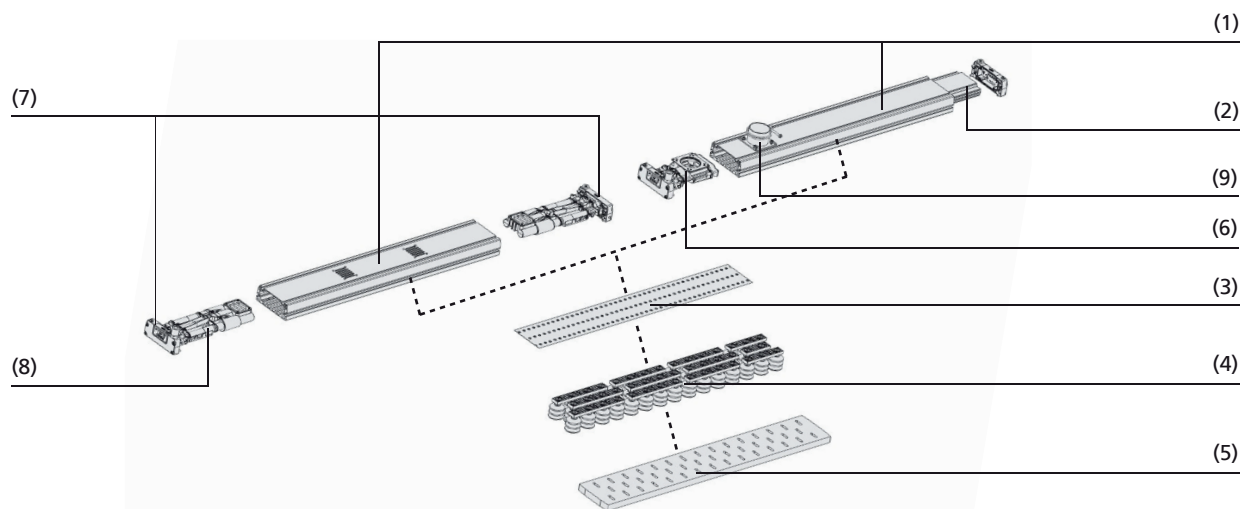
Highlights and Application

- Universal gripper for handling workpieces regardless of size, geometry, material and surface
- The area gripping systems FA-X and FA-M are available in three versions: Basic (FA-Xb, FA-Mb), with integrated vacuum valve (FA-Xc, FA-Mc) and with LED display, energy-saving function and other intelligent functions (FA-Xi, FA-Mi)
- Integrated software and sensors (FA-Xi, FA-Mi) provide a wide range of data for predictive maintenance, energy monitoring and condition monitoring. The data is available via the LED display, IO-Link and the Controlroom app (via NFC).
- Sealing foam optionally with foam-integrated part present sensor technology, which detects whether workpieces have been gripped correctly
- Handling of workpieces made from various materials, such as wood (coated or rough sawn), packaging (boxes, bags or cans), metal sheets, glass, plastics, CFRP, etc.
- Handling porous workpieces and workpieces with recesses
- Handling of workpieces in undefined positions
- Exceptionally energy-efficient thanks to patented energy-saving function. Now also for air-permeable and rough-surface workpieces
- Ideal for use on robots due to its low weight



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Design



Design of the Area Gripping Systems FA-X / FA-M

- Aluminum base profile (1) with side T-slots for sensors and integrated air supply for separation
- Vacuum booster (2) for quicker evacuation; valve film (3) for the quick change of valve type and size
- Sealing element: suction cup (4) with push-in function or sealing foam (5) with adhesive film
- Optional integrated slide-in vacuum valve (6) for fast evacuation and high suction volume
- End cover with function integration (7): compressed air connection, vacuum gauge; vacuum switch and control valves optional
- Type FA-X with multi-stage ejector (8); type FA-M with connection piece (9) for external vacuum generation