Optimize your part feeding and handling process.

Feeding and handling solutions

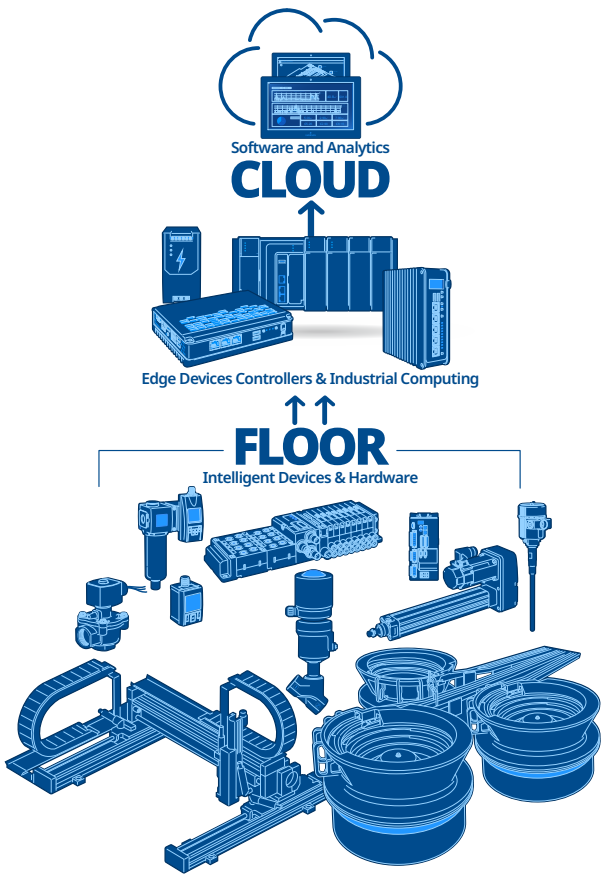
Maximize production efficiency with automated part feeding and handling components and systems.

EMERSON

Precision feeding and handling systems and components.

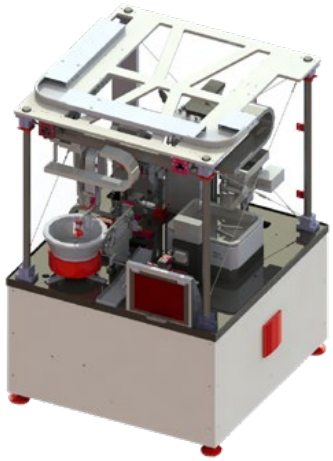
Manufacturers are continually challenged to optimize their manufacturing process and improve operating equipment effectiveness. Implementing the right part feeding and handling system is essential to meet these targets. With the acquisition of Afag, Emerson has created a leading portfolio of innovative field-proven technologies to manage part feeding, sorting and handling within your production process. Designed to meet the needs of industries ranging from automotive to life science, medical and pharmaceutical industries, our high-quality feeding and handling components and systems enable the implementation of consistent, precise and flexible automated solutions.

Our customized and standardized technologies support fast cycle times and outstanding reliability, creating a robust foundation on which you can maintain high throughput in any environment. To enhance your operations, implementing a Floor to Cloud™ approach to your automation will empower your workforce with data-driven insights to support long-term reliability, safety and productivity. Leveraging Emerson's edge connectivity and software solutions, equipment and operational data from your machine or the entire plant floor can be moved to an on- or off-premise cloud. Cloud services allow you to take advantage of advanced technologies such as artificial intelligence, machine learning and big data analytics. These can be used to create actionable insights that put your most ambitious machine overall equipment effectiveness goals in reach.



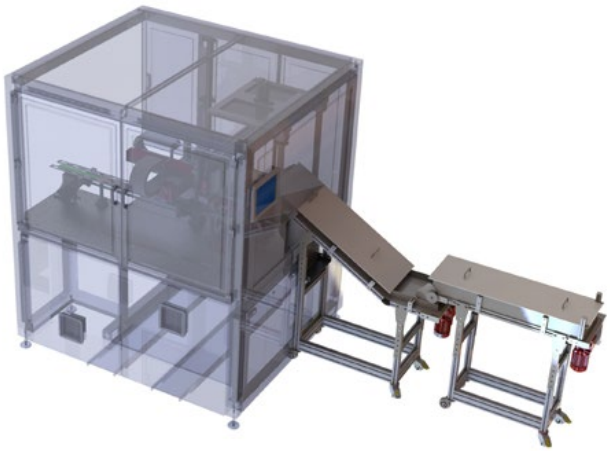
The right solution for every part shape

Turnkey automation solutions



Sustainable. Economical. Competitive.
Utilizing our extensive range of modular feeding and handling technologies, we develop tailor-made turnkey automation solutions for your specific application that help you achieve your business and sustainability goals. These can include integrated processes and systems, such as assembly, joining, vision/quality assurance and marking.

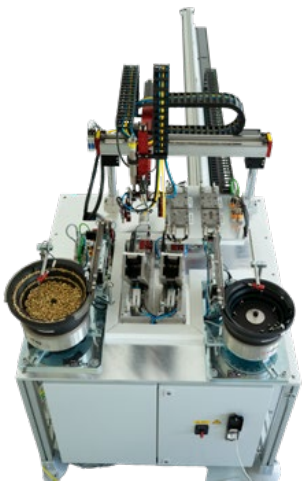
Flexible feeding solutions



From components to complete solutions.
Our flexible feeding solutions, which can be a single component or complete customized solutions, are tailored to your needs and can process a wide variety of materials. For even greater flexibility, we can provide:

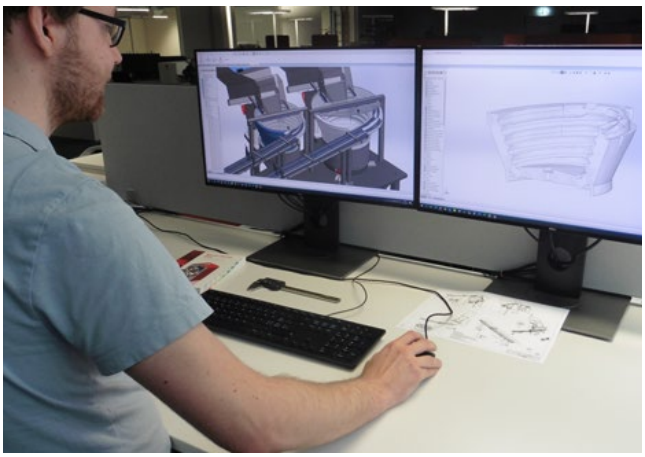
- Single system to handle different products
- Quick system changeovers
- Easy learning of new products
- Checking and sorting of products

Automated injection molding solutions



Feeding. Positioning. Provisioning.
Our modular injection molding solutions provide an individually tailored system for your application. Our solutions provide a competitive advantage in terms of speed, reliability and machine autonomy. In addition to the feeding, positioning and provision of individual inserts/in-mold parts, we also develop solutions for assembly and component testing.

Engineering services



Your complete automation partner.
Our engineering services provide development and design support to your team, including layout planning, conceptual design, mechanical design, software development and project management. We look to create benefits throughout your project, while increasing your agility and speed of innovation.

Feeding technology solutions

CAD/CAM-based feeder solutions
3D-CAD designed feeder bowl technology guarantees the precise adaptation to part specific geometries and tolerances to provide complete reproducibility and maximum system availability.

Cleanroom feeding systems
Designed for easy cleaning and to meet the most stringent quality requirements in food and beverage, pharmaceutical and cosmetics industries.

Flexible feeding systems
Versatile systems that utilize the aflex family of vibration platforms designed for small and very small parts, complex geometries and different batch sizes.

Pneumatic/Electric

Electric

Bunker step feeders
Flexible, smart, energy-efficient and gentle part feeder with integrated control. Electric and electric/pneumatic options.

Spring feeder device (FEG)
Smart FEG for feeding springs, featuring an integrated control system and with optional ring sensors for detecting filling levels.

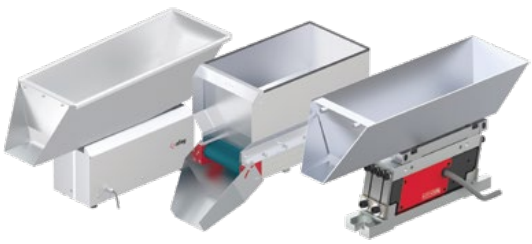
Drum conveyors
Stand-alone disentangling system with decentralized, integrated control system provides intelligent separation.

Feeding technology components

Bowl feeder drives
Drives that offer high availability, constant feeding rate and reactive force compensation.

Linear feeders
Can function as interface between sorting devices and downstream units or drives for hopper systems. Compact design with optimized reactive force compensation.

Feeding bowls
Feeding bowls constructed of wear-free polymer that adapt perfectly to workpiece shapes. FDA-approved version available.



Refill hoppers
Powerful and reliable vibration and belt hoppers that extend refill intervals.

Flip conveyor
Flip conveyor that flips and moves parts of almost any geometry up to 40 x 40 mm and 50 g, with adjustable speed.

Control devices
Range of control devices for optimal coordination and control of vibrating conveyors, motors and feeders.

aflex qc vibration platform
Flips and moves parts for easier selection and handling. Diverse application possibilities and simple installation and commissioning.

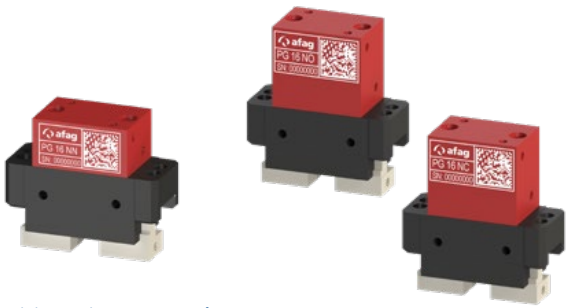
aflex 400 lv vibration platform
Flips and moves parts for easier selection and handling, with reactive force compensation and tool-free quick-change system. Easy to integrate into feeder systems.

Handling gripper modules

Smart electric gripper SGE-40-P-IOL
Four-stage adjustable gripping force. IO-Link communications. Eight different workpieces can be gripped. FastGrip and SoftGrip gripping modes.

Electric gripper GE-25-P
Compact design, fast reaction/cycle times and a high output density.

Gripper modules GMQ
Drive that is combinable with different grippers. Gripping force securing with parallel and swiveling grippers.



Precision gripper PG and PG 16 NO/NC
Miniature design offering very precise jaw guidance and simple operation.

Universal grippers UG
Compact and light, with third sensor for parts recognition. Gripping force securing.

Servo gripper SG50
Features an integrated measuring system and programmable jaw stroke. Replaces testing station.

Gripping rotation modules

Rotary modules RE
Very compact, but with high torque. Plug and go.

Smart rotary module SREH-50-IOL
Integrated controller and IO-Link communications. Simple integration.

Rotary grippers DG
Shortest rotating gripper within its performance class.

Rotary axis RA
Dynamic rotation axis offering endless rotation without moving cables.

Rotary modules CR
Compact design, but with large mounting flange. High mass inertias.

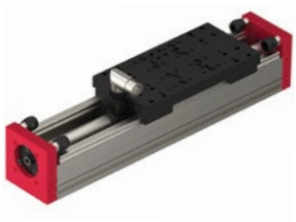
Rotary modules RM
Very robust with optional intermediate positions.

Gripping rotary modules GMQ/RE
No moving tubes or cables. Grippers can be rotated in any position.

Gripping rotary modules GM/RM
Modular combinations.

Linear motion modules

Portal axes PEZ/PDZ
The most rigid portal axes, single or double guide, fully symmetrical.



Portal axes PEL/PDL
High torsional rigidity from double guide.

Lifting modules HM
Torsion-resistant. Short style, simple to install.

Electric slides ES
Compact, freely programmable.

Linear modules LM
Extremely robust, with optional intermediate stops.

Compact slides CS
Compact design, solid construction and high rigidity.

Telescopic spindle axis SA
Extremely compact, with flexible motor mounting and precise spindle drive.

Gantry module pneumatic PMP/PMP-c
Millimeter-accurate strokes, with rigid construction and self-supporting profile.

From single modules to complete handling systems

Linear axes, rotary axes and grippers with electrical or pneumatic drives form the basis of more than 20 of our standardized handling systems. Find out more:

Handling systems

Electric handling system EPS midi XYZ
Standardised pick and place handling system including linear axes, rotational axes, rotary modules, grippers and electric drives.

H-Portal with two slides
Dynamic for large areas and higher loads.

Advanced feeding and handling systems and components to maximize production quality and throughput.

World-class technologies and global support to ensure appropriate component selection and system design, commissioning, maintenance and optimization.

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