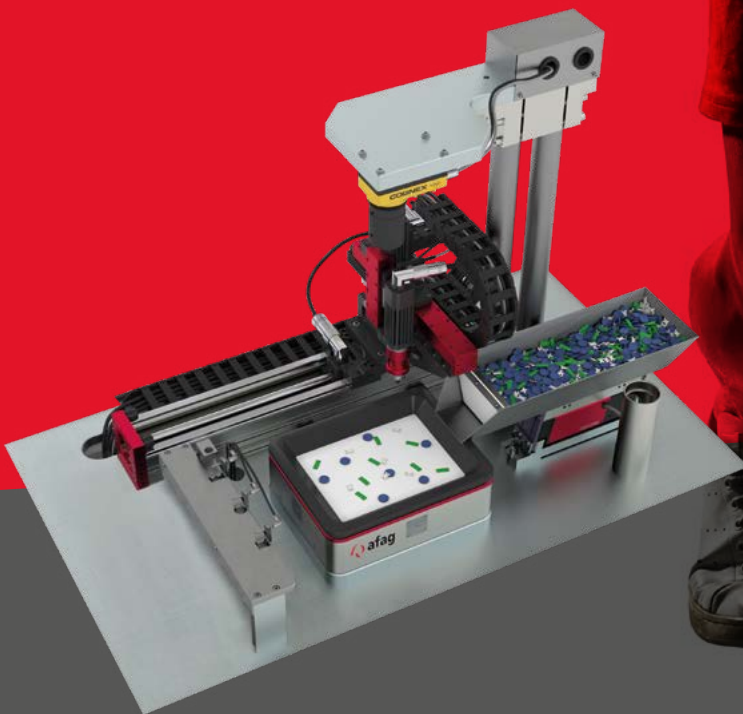




Packaging
technology
**More than
Motion.**

Yesterday. Today. Tomorrow.



Excellent all-round care

As a leading supplier, we have been developing and producing components and solutions for feeding, handling and transportation for more than 60 years. Our objective is to meet the high standards of the global automation industry with state-of-the-art technologies and innovative solutions.

In addition to standardized handling, feeding, and transport systems, we develop innovative solutions especially for specific applications in the packaging sector. Reliability, quality and economy are very important to us.

Thanks to our branch offices in Europe, Asia and the USA as well as our sales partners in over 30 countries, our customers worldwide enjoy professional advice and service.

Our worldwide service

- › Free download of CAD models and operating instructions
- › Calculation and design of applications
- › Product training on site or at one of our locations
- › Support from globally represented branch offices and sales partners
- › Telephone consultation and remote maintenance via Teamviewer
- › Repair service - incl. local stocking of components in Europe, Asia and America

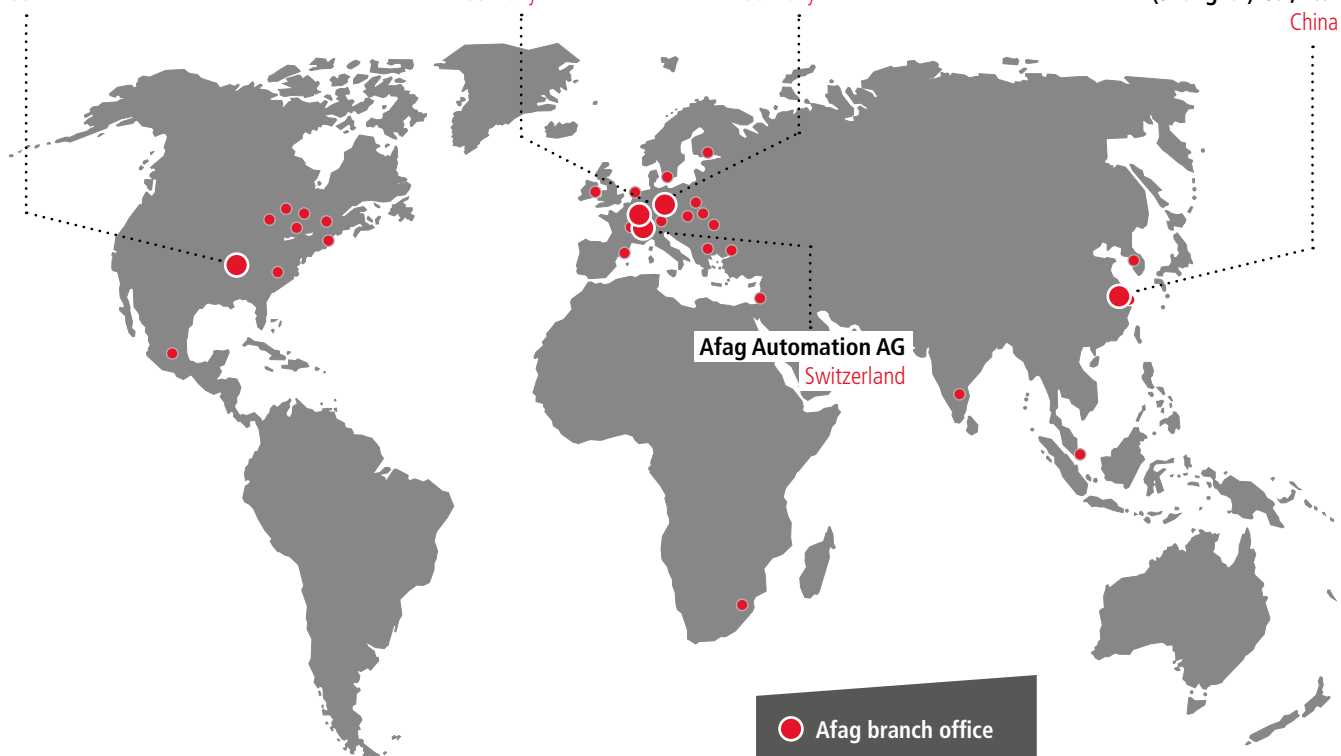
Afag Automation North America
Schaeff Machinery & Services LLC
USA

Afag Engineering GmbH
Germany

Afag GmbH
Germany

Afag Automation Asia
Afag Automation Technology
(Shanghai) Co., Ltd.
China

Afag Automation AG
Switzerland



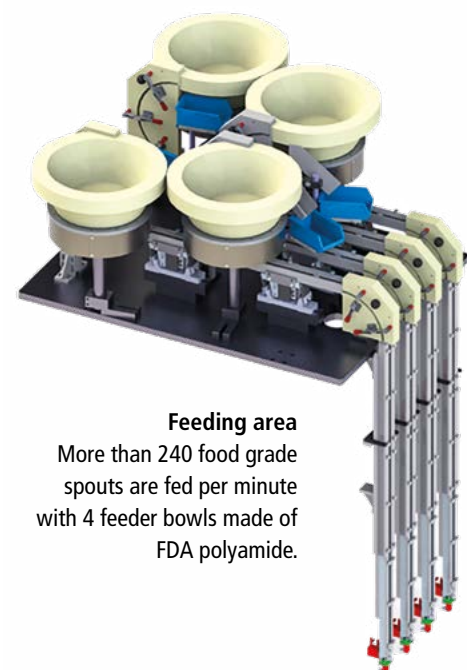
- Afag branch office
- Sales partner

Components and systems for the packaging industry

Overview

Components and systems in the Industry 4.0 environment aim to continuously improve plant availability by recording and intelligently evaluating process data. The consideration of effectiveness must therefore begin with the components that are used in the packaging machine. The assemblies must be reliable and consistently ready for use in order to guarantee the required high performance of the entire system.

Afag delivers exactly these enduring and high-quality solutions. Whether single components or subsystems, with our products your machines work fast and effectively. Downtimes, errors and costs are noticeably reduced and sustainably support your production in the primary and secondary packaging areas.



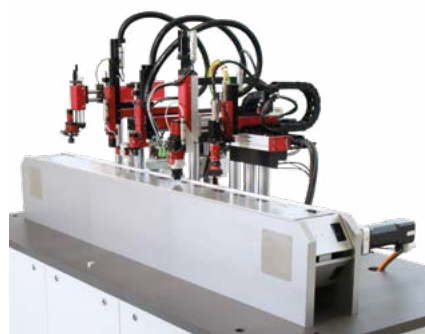
Feeding area

More than 240 food grade spouts are fed per minute with 4 feeder bowls made of FDA polyamide.



Handling area

Built from high-precision Afag components, the FlexSpeed electric handling system places more than 180 parts per minute at the intended positions in the packaging container.



Transportation area

Together with the handling and feeding areas, Afag provides you with a complete package including a transfer system.

Our strengths

- › Support for all planning steps (Needs analysis, conceptual design, layout, constructional integration, commissioning)
- › Constant, recurring quality and performance through complete reproducibility of the products
- › Digital documentation and CAD data always available (CADENAS, ePlan)
- › Short commissioning times for all components and solutions
- › Synergy effects, because everything is supplied from a single source from the supply, handling and transportation sectors

Feeding technology

Afag's innovative feeding technology is based on two pillars. Firstly, the 3D CAD-supported design and 5-axis simultaneous milling of polyamide, aluminum and stainless steel bowls. Secondly, the system of reactive force compensation of vibratory feeders. This means interference vibrations are reduced to a minimum due to the reactive force compensation. A worldwide unique patent and principle, only available from Afag. We adapt to your needs and find a suitable solution for virtually every part shape for precise feeding to the final packaging step.



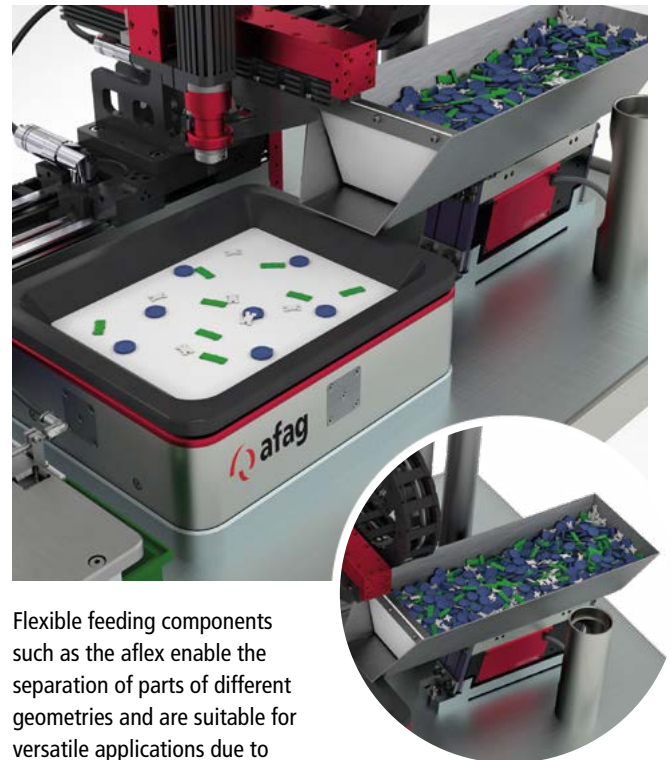
CAD-CAM produced feeder bowls provide 55 spouts per minute.



More than 250 coffee cream containers per minute are fed to the secondary packaging system.

Feeding technology highlights

- › Gentle conveying of parts
- › Thanks to patented reactive force compensation, consistent and quiet feeding takes place with little to no cross-talk
- › Long, multi-lane conveyor lines
- › Verified cleanroom compatibility in accordance with ISO Class 7
- › FDA approval for polyamide/aluminum and stainless steel feeder bowls
- › Easy cleaning
- › Linear feeders for counting, weighing and dispensing in the packaging industry
- › Feeding of very small parts of less than 1 mm



Flexible feeding components such as the aflex enable the separation of parts of different geometries and are suitable for versatile applications due to short changeover times.

Refill hopper and linear feeder with reactive force compensation.

Handling technology

The handling technology from Afag impresses with a finely tuned modular system of components and handling solutions. Modular, precise, high-performance. The right solution is available for every application in modern automation. Our handling products guarantee millions of precise load changes. Our handling products are used, for example, in the assembly of carton and folding boxes. Our products also ensure that your production runs smoothly when filling and sealing boxes, cups and cans.

Handling highlights

- › Precision and flexibility with extremely high speed and cycle performance
- › Fast commissioning due to preconfigured components and assembled solutions
- › Cost-effective and space-saving complete solutions
- › Highly dynamic linear motor axes with compact controllers
- › Reproducible connection technology
- › High availability of all components and solutions

Folding boxes initially arriving upright are reoriented here in the correct position at 80 cycles per minute by space-saving electrical axes. The boxes are picked up simultaneously, swiveled twice or rotated by 90° each, deposited and then conveyed across a belt to the final packaging line.



Afag handling components can be used to quickly and easily change the size of each folding box.



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