



FlexiBowl®

One feeding platform.
Any part.



Market **overview**

- ↗ New trends
- 🗺️ Geopolitical instability
- 🔄 Short product life cycles
- 🌐 Global Competition
- 📉 Demand volatility
- 👤 Supply chain instability



SMALL PRODUCTION LOTS
FREQUENT CHANGEOVER

INDUSTRIES



Life sciences



Automotive



Cosmetics



Personal care



Electrical & Electronics



Food



Metals



Consumer Goods



Many others



Smarter changeovers **Greater flexibility**

Unlike flexible automation, product-specific automation requires dedicated tooling and line adjustments for each new part, leading to longer changeovers, higher costs, increased downtime, and reduced production flexibility.

PRODUCTION
LOSS

+

TEST AND
VALIDATION

+

SET UP AND
ADJUSTMENTS



CHANGE OVER **COST**

New automation **system**

**PRODUCT-SPECIFIC
AUTOMATION**



Longer time-to-market



Mass production



Rigid Manufacturing

**FLEXIBLE
AUTOMATION**



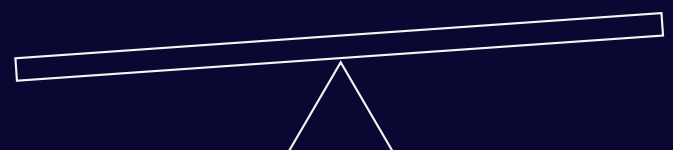
Shorter time-to-market



Mass Customization

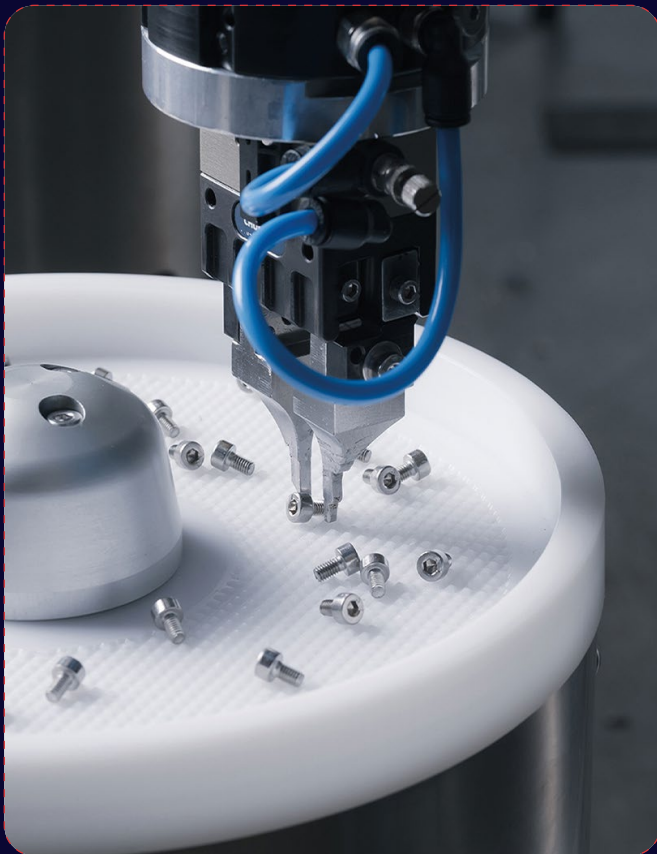
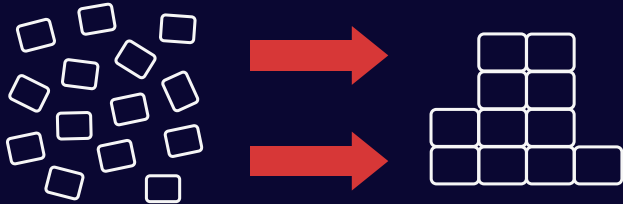


Modular Manufacturing



From bulk parts to final product

PARTS FEEDING BRIDGES THE GAP



With FlexiBowl®:

- ✓ Fast changeovers
- ✓ No mechanical retooling
- ✓ Maximum production flexibility



APPLICATIONS



Rotary table loading



Tray loading



Belt loading



Workpiece transport



Machine tending



Screw driving



Quality control



Press feeding



Mold feeding



Packaging



Kitting



... Many others

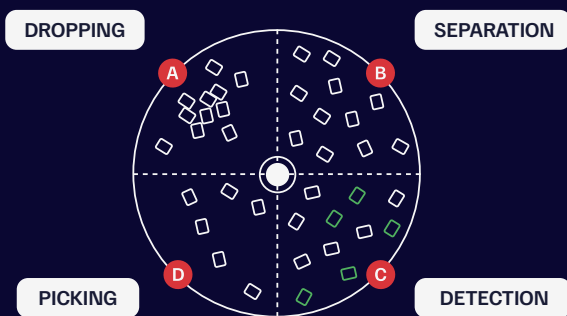




How does it work?

FlexiBowl® is a circular feeding system based on a patented combination of alternating rotation and high-frequency pulses to efficiently separate parts dropped by the bulk feeder for picking. A vision system detects correctly oriented components and sends

their coordinates to the robot for picking. All operating parameters can be remotely managed and optimized for different part geometries and feeding needs. Built-in automatic tuning tools make it easy to identify the best setup, ensuring reliable performance and consistently optimal feeding results.



Parallel feeding process Time Saved

The feeding process is organized into four continuous and simultaneous stages—dropping, separation, detection, and picking—each taking place in a dedicated sector of the operating surface. Parts are dropped, separated, detected, and picked in a seamless flow, ensuring smooth operation and high overall efficiency. This parallel process minimizes cycle time, increases throughput, and delivers a significant boost in productivity.

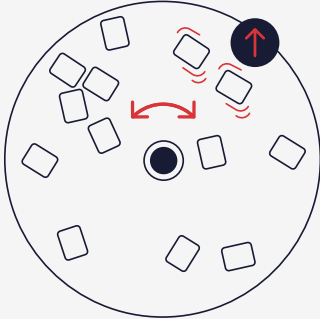
Parallel Feeding Process



Sequential Feeding Process



Operating Mode

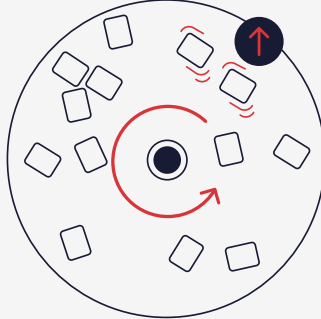


Standard

It ensures optimal separation of components on the surface.

ADVANTAGES

- ✓ Precision
- ✓ Separation
- ✓ Speed

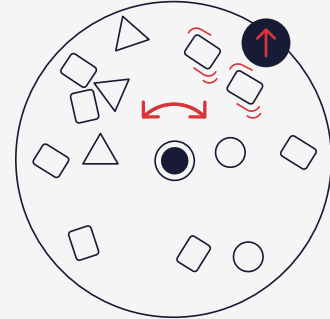


Circular Tracking

It enables picking on the fly for high-throughput applications.

ADVANTAGES

- ✓ Speed
- ✓ Cycle time stability
- ✓ Reduced footprint



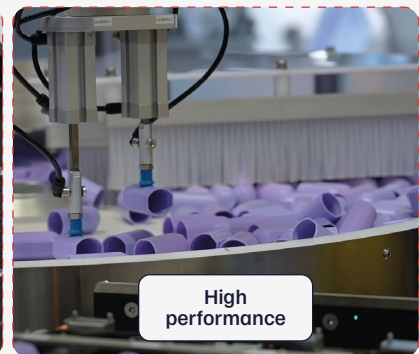
Mix

Simultaneous feeding of different parts.

ADVANTAGES

- ✓ Max flexibility
- ✓ Cost Reduction
- ✓ Reduced footprint

Why choose FlexiBowl®





Models

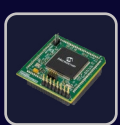
Available in six configurable models, FlexiBowl® can be tailored to a wide variety of applications. Simulation with real components helps identify the most suitable configuration and optional features, ensuring optimal performance for each specific requirement.

X THE MOST FLEXIBLE FEEDING SYSTEM IN THE WORLD
HANDLES 99% OF COMPONENTS

Patented

FlexiBowl® 200e

Part dimensions	1mm	—●—	400 mm
Part weights	1 g	—●—	450 g
Max load	1 kg	—●—	7 kg

Patented

FlexiBowl® 350e

Part dimensions	1mm	—●—	400 mm
Part weights	1 g	—●—	450 g
Max load	1 kg	—●—	7 kg




Patented

FlexiBowl® 500/500e

Part dimensions 1mm —●— 400 mm

Part weights 1 g —●— 450 g

Max load 1 kg —●— 7 kg



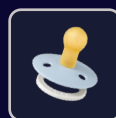
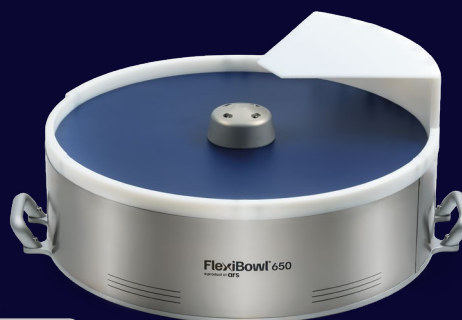
Patented

FlexiBowl® 650

Part dimensions 1mm —●— 400 mm

Part weights 1 g —●— 450 g

Max load 1 kg —●— 7 kg



Patented

FlexiBowl® 800

Part dimensions 1mm —●— 400 mm

Part weights 1 g —●— 450 g

Max load 1 kg —●— 7 kg



Patented

FlexiBowl® 1200

Part dimensions 1mm —●— 400 mm

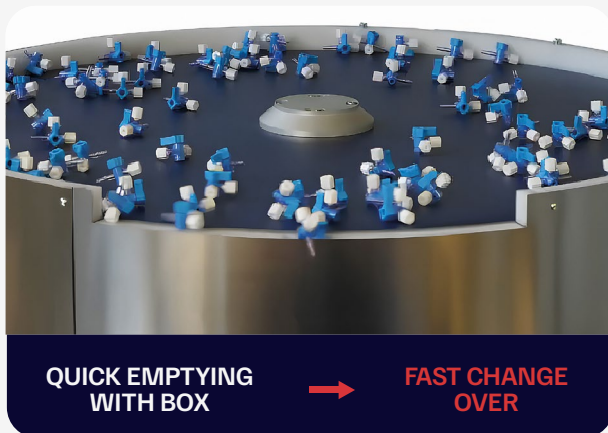
Part weights 1 g —●— 450 g

Max load 1 kg —●— 7 kg



Features

Each model can be configured with a range of optional features to address specific application requirements and optimize overall system performance.



FlexiVision One

Smart vision system for FlexiBowl®

We listened. We simplified. We evolved.

FASTER SETUP, FEWER ERRORS, SAME POWER

What's in the box?



GOALS & BENEFITS



Plug & Play



Reduction of average commissioning time



No code interface



Easy to use



Fewer errors



Increased profitability for flex feeding applications

FlexiVision One

GENERAL-PURPOSE VISION SYSTEM

Motion and parameter control of the feeding system



Integrated control of bowl filling and hopper feed



Integrated recipe manager



Optimized tools for flexible feeding applications

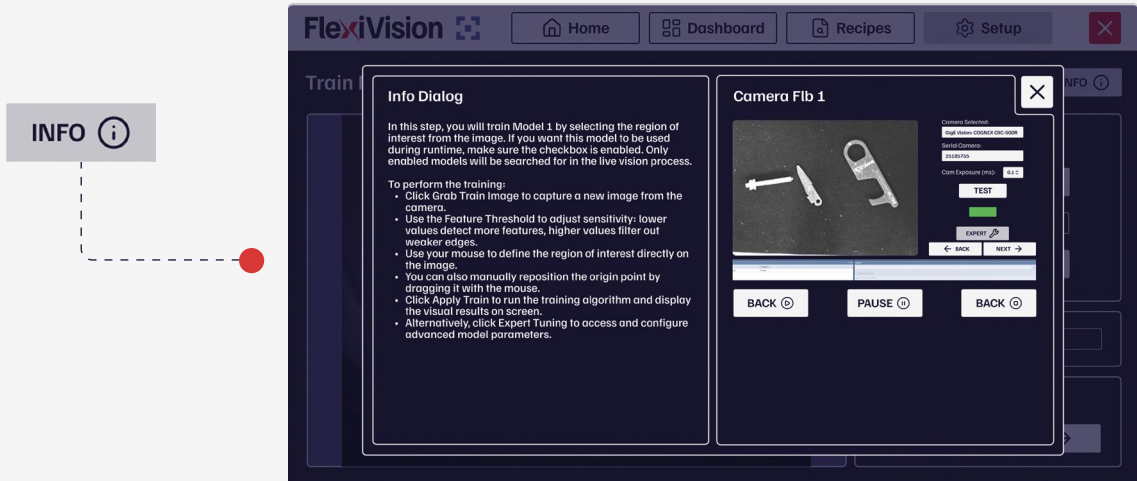


Automatic part-guided tuning



Key Features & Interface Highlights

Documentation & Tutorial Videos



Real Time Feedback



 **5'** From setup to vision model in only 5 minutes

Software and Integration

FlexiBowl® supports communication in all high-level programming languages. Fully-documented plug-ins for a wide range of robots and PLCs reduces integration costs.

Our software plug-ins for FlexiBowl® control are easy to integrate with any customer application software.

Features



Enhanced user experience

- ✓ Web based interface
- ✓ Zero manual tuning
- ✓ Smart parameters setting



Seamless Integration

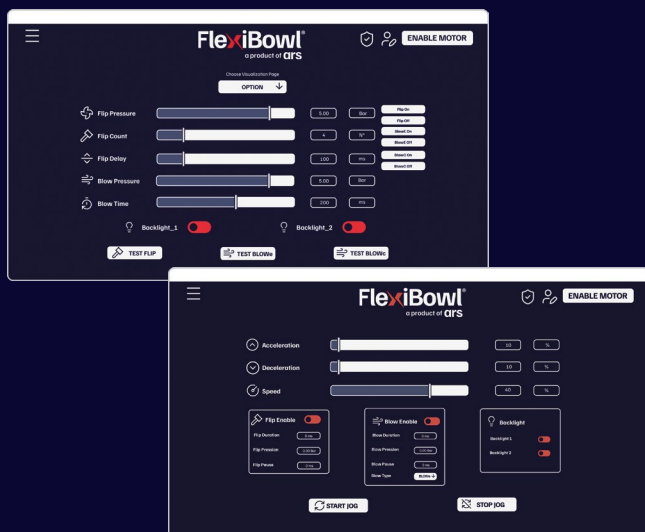
- ✓ No external gateways or custom scripts required
- ✓ No workarounds required
- ✓ Direct connectivity with robots and PLCs



Safety Torque (STO) - Built-In

- ✓ Full safety compliance: PLe [cat 4] and SIL 3
- ✓ Disables motor torque without cutting power
- ✓ No external safety relays required

WITH A MODERN INTERFACE



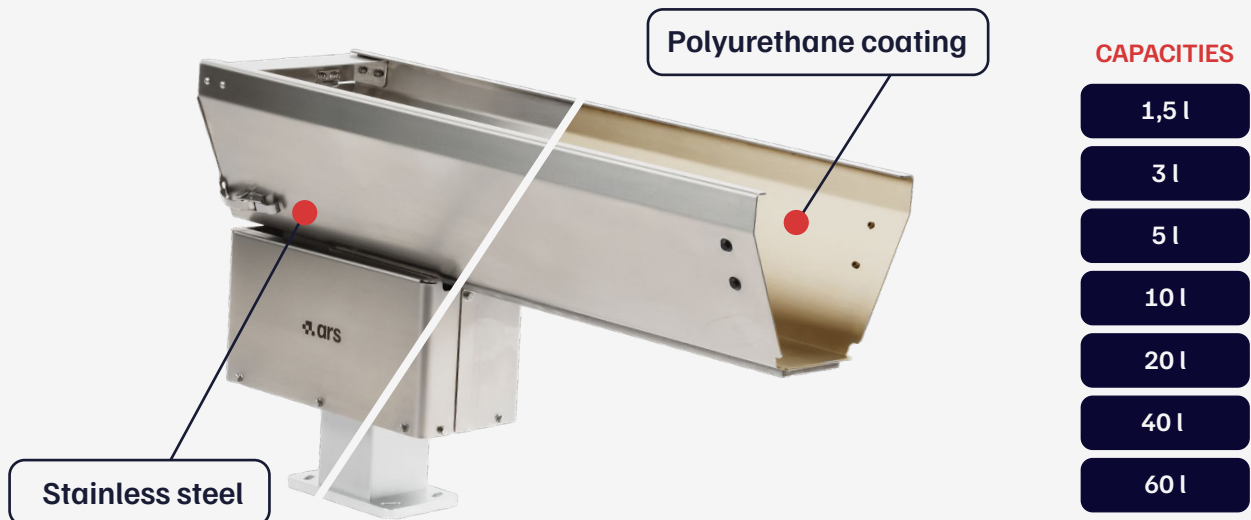
NATIVELY SUPPORT



Bulk Feeders

Bulk feeders are the first stage of the feeding process, providing pre-feeding and ensuring a constant, controlled flow of components into the FlexiBowl®

system. The range is designed to handle different part types, materials, and production speeds, always ensuring smooth and reliable part supply.



Native Bulk Feeders Control

Integrated and parametric

-  **Handled as an integrated device**
Part of the FlexiBowl® ecosystem
-  **Turn it on or off**
Activate the hopper directly from FlexiBowl®
-  **Adjust amplitude and frequency**
Settings fully configurable via software

FEATURES

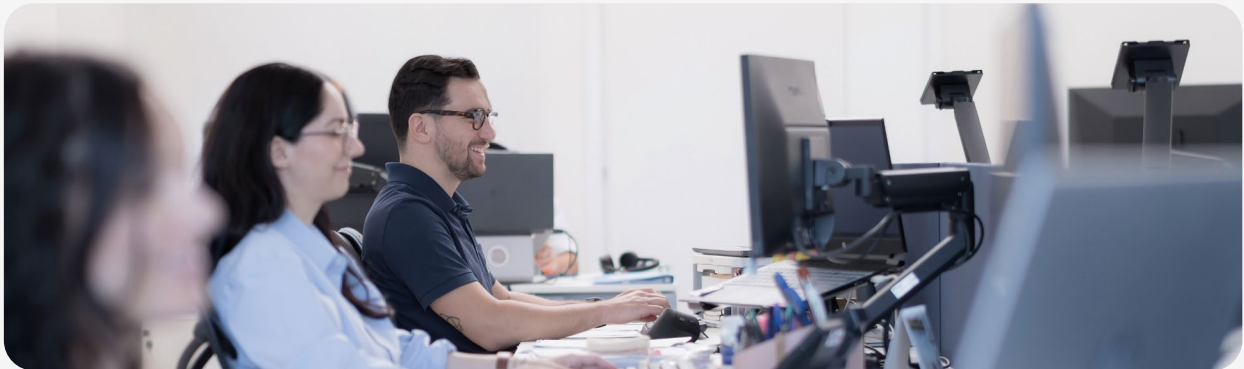


Service

ARS Automation's service and support team is committed to maximizing system reliability and long-term performance.

With a responsive and **customer-oriented approach**, we provide technical trainings, remote support, and on-site service whenever required, helping customers reduce downtime and maintain uninterrupted

production. Our global service network is structured to support every stage of the system lifecycle, from installation and commissioning to maintenance, optimization, and upgrades. Combining efficiency, expertise, and a problem-solving mindset, ARS Automation delivers fast and effective support tailored to each customer's application.

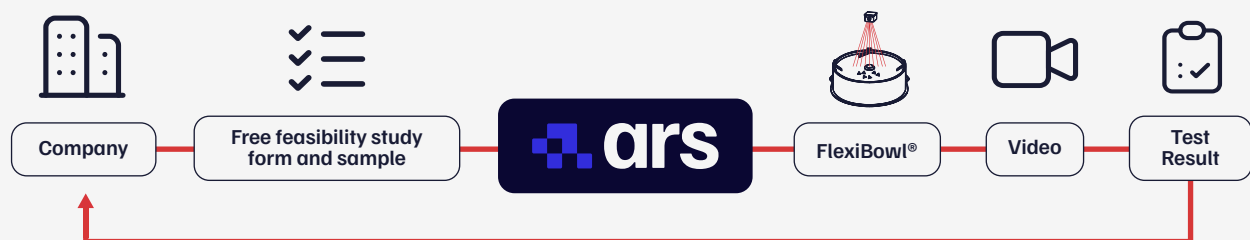


Free Feasibility Study

ARS Automation offers a Free Feasibility Study to evaluate the suitability of its solutions for specific applications. By analyzing parts and requirements, we assess handling feasibility and expected

performance.

This provides a clear initial indication of results, supporting informed decision-making and **reducing project risks** from the very beginning.



SERVICES



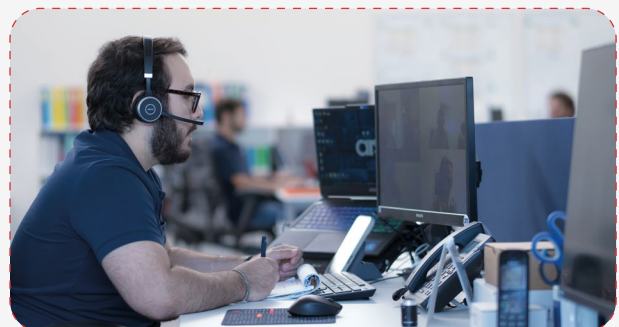
Layout and cycle-time optimization



On-site and online training



Comprehensive online documentation for fast access anytime



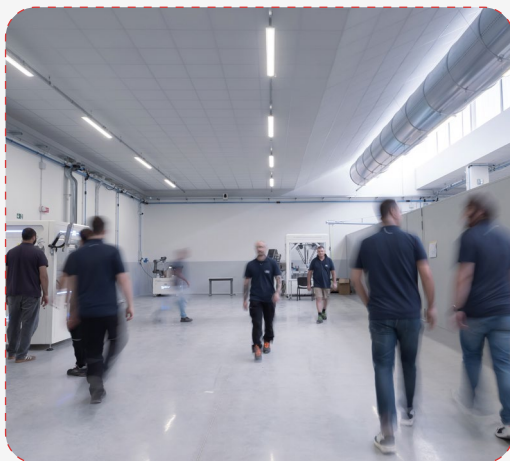


About us

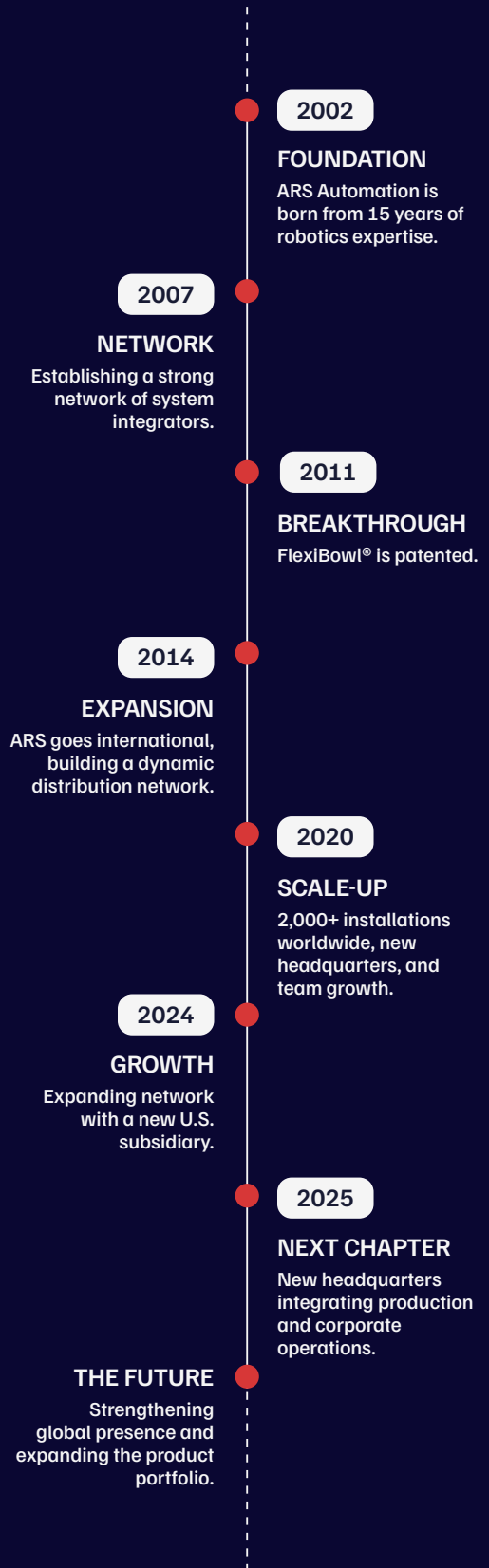
For over 35 years, ARS Automation has been developing and delivering advanced solutions for flexible automation.

Headquartered in Arezzo, Tuscany, the company has gained solid expertise in areas ranging from industrial robotics and artificial vision to the integration of advanced AI technologies, serving international customers across multiple industries.

Through ongoing collaboration with universities and research centers worldwide, ARS Automation continues to deliver state-of-the-art solutions that combine flexibility, reliability, efficiency, and innovation. Customers are at the core of our approach, and every solution is designed around their specific needs.



Timeline



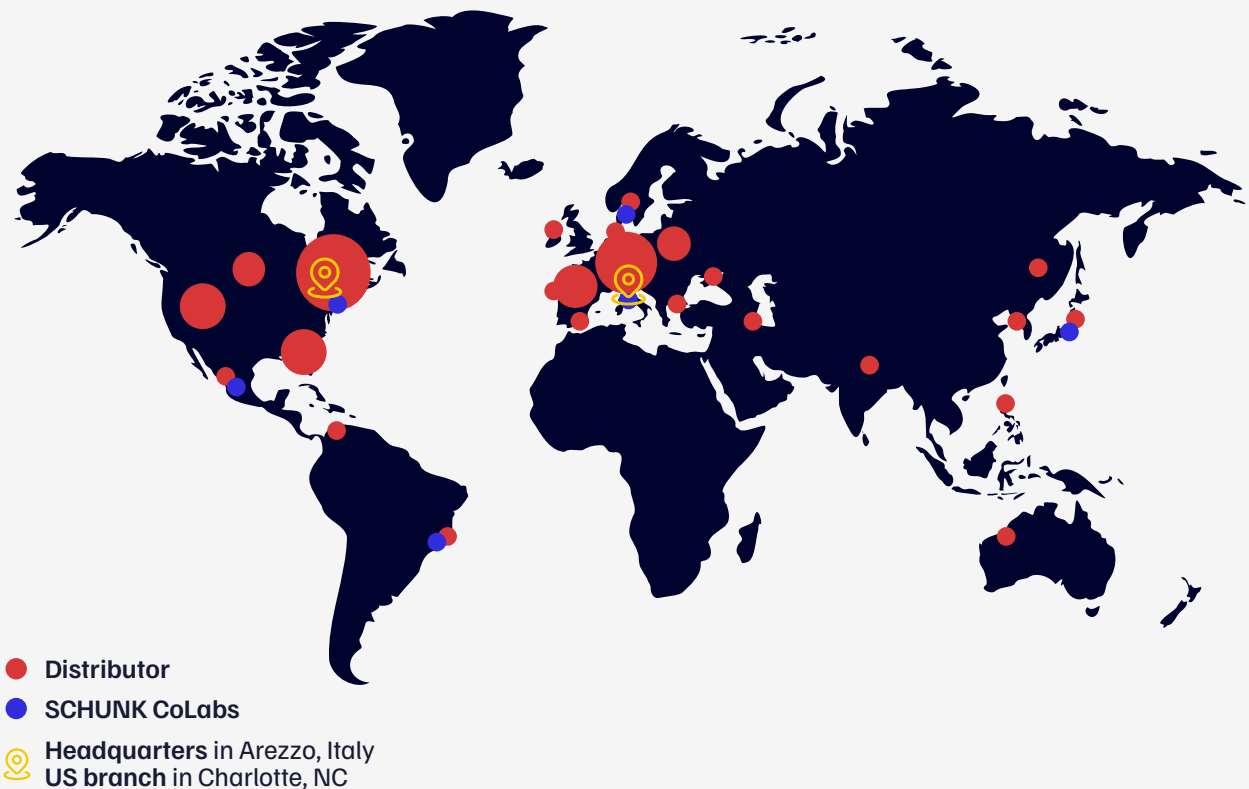
Distribution Network Global Connection

Local Presence

Thanks to a solid network of selected partners and distributors, ARS Automation is present in the main international markets. Our global network allows us to offer commercial and technical support wherever

our customers are, ensuring fast response times and local service.

ARS Automation has been chosen by SCHUNK as the sole provider of feeding solutions for its CoLabs.



80+ Distributors
and partners globally

40+ Countries covered
Global presence



Italian Headquarters

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US Headquarters

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  ARS Automation