

PRODUCTIVITY  
**OVER 90**  
PPM



## FlexiBowl® Solution: A turnkey system

The FlexiBowl Solution is the result of our long-standing experience on flexible systems for precision assembly and parts handling, gained in a wide range of industries. A constant cooperation with clients and commitment to R&D, make ARS the ideal partner to meet every production requirement. We are committed to achieve the highest quality and results.

### COMPATIBLE WITH A WIDE CHOICE OF ROBOTS

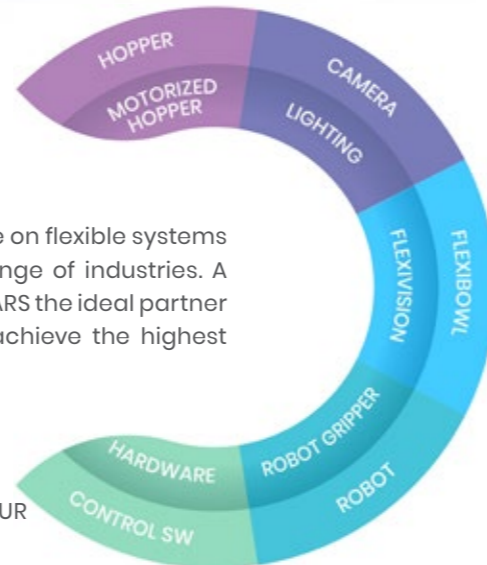
- › ABB › Denso › Doosan › Epson › Fanuc › Hyundai › Kawasaki
- › Kuka › Mecademic › Mitsubishi › Omron-Adept › Stäubli › TM › UR

### PLC COMPATIBLE WITH FLEXIBOWL®

- › Beckhoff › Allen Bradley › Omron › Siemens.

### OUR SERVICES

- |                                   |  |                                    |                  |
|-----------------------------------|--|------------------------------------|------------------|
| Preliminary Analysis              | Technical Support and Feasibility Test | Layout and Cycle Time Optimization | Equipment Design |
| Real-time Assistance and Diagnose | Training                               | On-site Support for System Ramp-up | Remote Support   |



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ARS Automation

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Grafica: Atlantide ADV

# FlexiBowl

BY ars

A Single Feeding System for many different parts



# FlexiBowl® A flexible part feeding system

FlexiBowl® is a **flexible** parts feeder that is compatible with every robot and vision system. Entire families of parts within **1-250 mm** and **1-250 g** can be handled by a single FlexiBowl® replacing a whole set of vibrating bowl feeders. Its lack of dedicated tooling and its **easy-to-use** and **intuitive programming** allows quick and multiple product changeovers inside the same work shift.

## INDUSTRIES



## The Benefits of the Circular System

The linear hopper dropping, the feeder separating and the robot picking are performed **simultaneously** in specific sectors of the FlexiBowl® surface. A **quick feeding sequence** is guaranteed.

### HOW IT WORKS

- 0 | **Connectivity**  
Digital I/O, TCP/IP, UDP, Ethernet-IP
- 1 | **Linear Hopper**  
Drops components and rear emptying
- 2 | **Diverter / Blow Unit**  
Diverts components from the ring
- 3 | **NEW Rotary Disc**  
Custom Discs upon request
- 4 | **Flip Unit**  
Separates components
- 5 | **Backlight**
- 6 | **NEW Quick Emptying**  
Automatic Product Changeover
- 7 | **NEW Quick Release**  
Quick Disc Change
- 8 | **Toplight**
- 9 | **FlexiVision System**  
Sends parts coordinates to the robot. Controls feeder movements and manages the parts flow from the hopper. Parts database manager.

### INDEPENDENT AND SIMULTANEOUS ACTIVITIES

- A | Dropping
- B | Separating
- C | Picking

### FlexiVision



# FlexiBowl® Five Sizes to meet all your production requirements

## A VERSATILE SOLUTION

FlexiBowl® solution is highly versatile and is able to feed parts with every:

- > Geometry
- > Surface
- > Material

## SURFACE OPTIONS

The Rotary Disc is available in various **colours, textures, degrees of surface adhesion.**



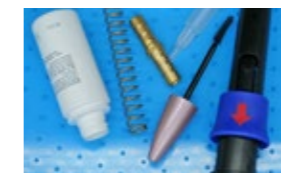
## WHY FLEXIBOWL®

- > **High** Performance
- > **7 Kg** Max Payload
- > **Reliable** and **Lean** Design
- > Low Maintenance
- > **Intuitive** Programming
- > Works in **Extreme** Environments
- > **Ready** to Ship
- > Suitable for **Tangly** and **Sticky** Parts

## OPTIONS



**Quick Emptying** for fast product changeovers



**Spike Disc** suitable for cylindrical parts



For **Multiple Parts** feeding



**Custom Made** upon request

PRODUCT RANGE	Recommended Part size	Recommended Part Weight	Max Payload	Backlight Area	Recommended Linear Hopper	Pick Height	Weight
<b>NEW</b> FlexiBowl® 200	1<x<10 mm	<20 gr	1 kg	180x90,5 mm	1+5 dm <sup>3</sup>	270 mm	18 kg
FlexiBowl® 350	1<x<20 mm	<40 gr	3 kg	230x111 mm	5+10 dm <sup>3</sup>	270 mm	25 kg
FlexiBowl® 500	5<x<50 mm	<100 gr	7 kg	334x167 mm	10+20 dm <sup>3</sup>	270 mm	42 kg
FlexiBowl® 650	20<x<110 mm	<170 gr	7 kg	404x250 mm	20+40 dm <sup>3</sup>	270 mm	54 kg
FlexiBowl® 800	60<x<250 mm	<250 gr	7 kg	404x325 mm	20+40 dm <sup>3</sup>	270 mm	71 kg