

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

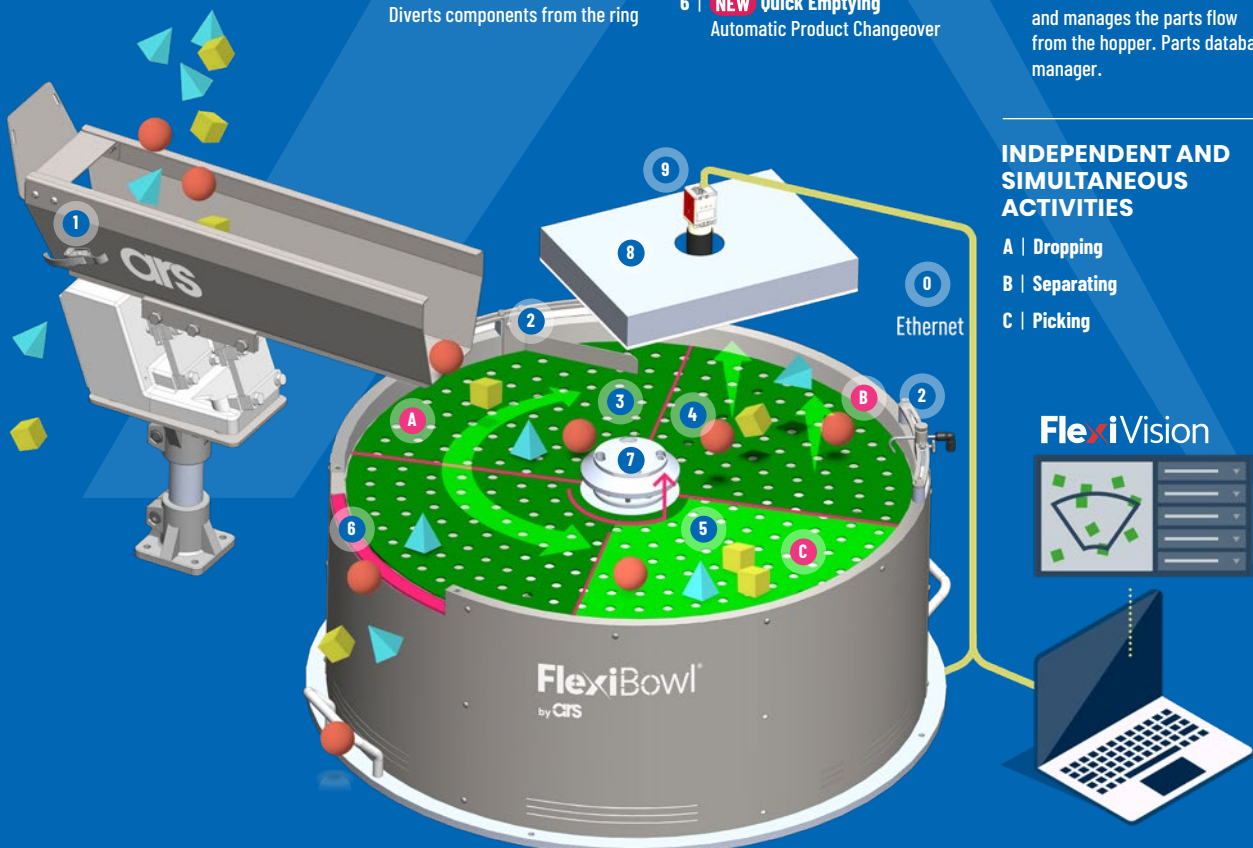
The linear hopper dropping, the feeder separating and the robot picking are performed **simultaneously** in specific sectors of the FlexiBowl® surface. A **quick feeding sequence** is guaranteed.

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



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

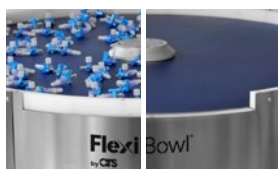
The Rotary Disc is available in various **colours, textures, degrees of surface adhesion.**



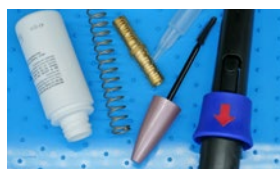
WHY FLEXIBOWL®

- › 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
NEW FlexiBowl® 200 	1<x<10 mm	<20 gr	1 kg	180x90,5 mm	1÷5 dm ³	270 mm	18 kg
FlexiBowl® 350 	1<x<20 mm	<40 gr	3 kg	230x111 mm	5÷10 dm ³	270 mm	25 kg
FlexiBowl® 500 	5<x<50 mm	<100 gr	7 kg	334x167 mm	10÷20 dm ³	270 mm	42 kg
FlexiBowl® 650 	20<x<110 mm	<170 gr	7 kg	404x250 mm	20÷40 dm ³	270 mm	54 kg
FlexiBowl® 800 	60<x<250 mm	<250 gr	7 kg	404x325 mm	20÷40 dm ³	270 mm	71 kg

PRODUCTIVITY
OVER
9 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

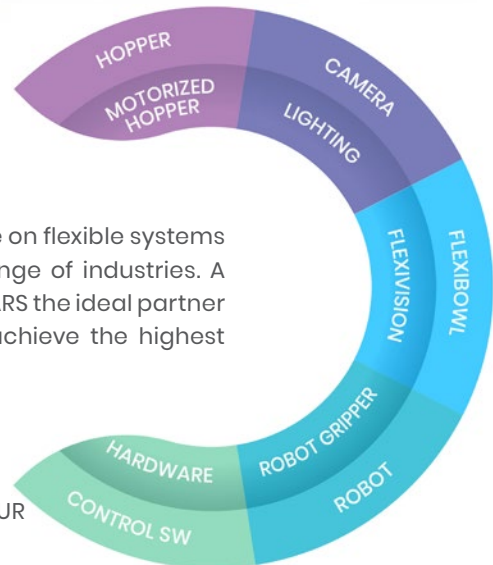
- › ABB › Denso › Doosan › Epson › Fanuc › Hyundai › Kawasaki
- › Kuka › Mecademic › Mitsubishi › Omron-Adept › Stäubli › TM › UR

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 diagnosis |  Training |  On-site Support for System Ramp-up |  Remote Support |



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