



# 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 **0,04-10 in** and **0,035-8,8 oz** 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

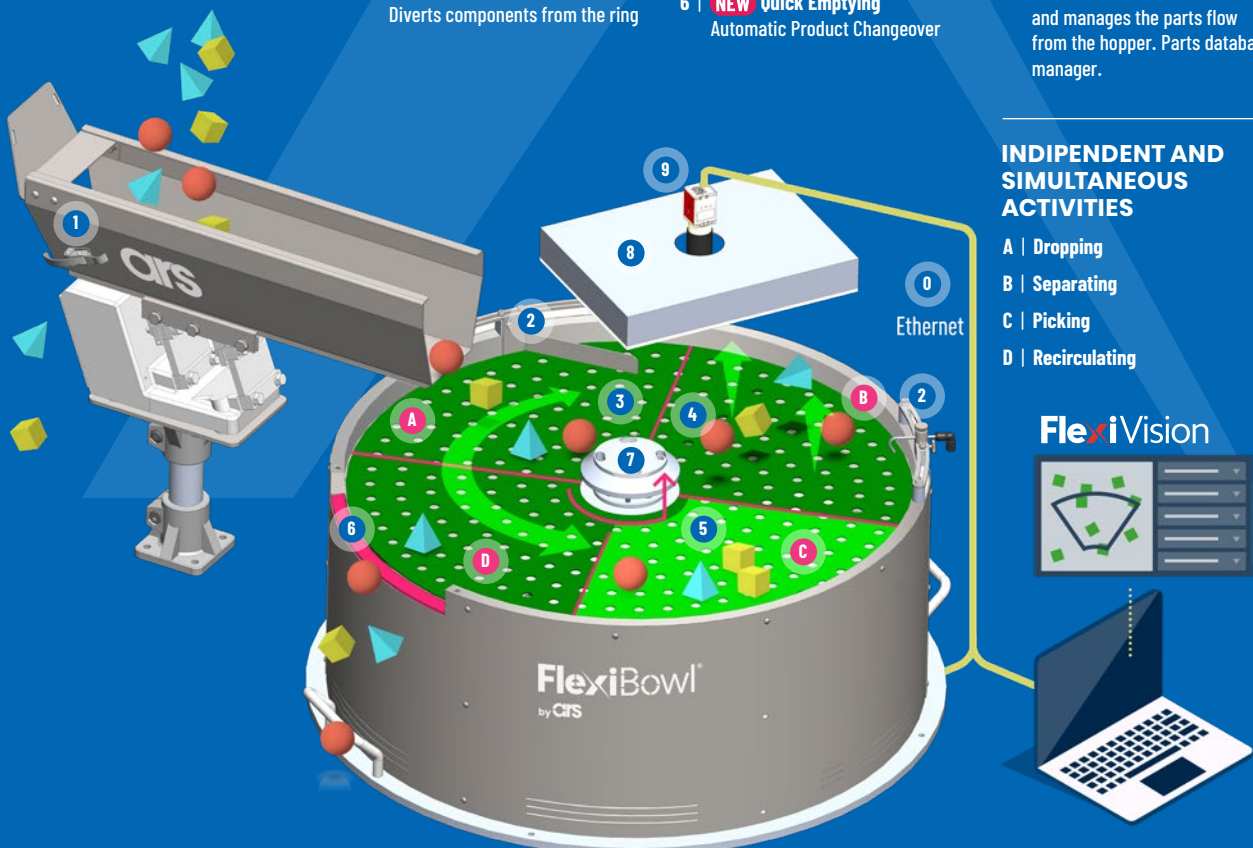
The linear hopper dropping, the feeder separating and the robot picking are performed **simultaneously** in specific sectors of the FlexiBowl® surface. A **quick feeding sequence** is guaranteed.

### HOW IT WORKS

- 0 | **Connectivity**  
Digital I/O, TCP/IP, UDP, Ethernet-IP
- 1 | **Linear Hopper**  
Drops components and rear emptying
- 2 | **Divorter/ 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
- D | Recirculating



# FlexiBowl® Five Sizes to meet all your production requirements

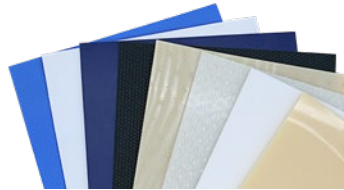
## A VERSATILE SOLUTION

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
- › **15,4 lb** 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	0,04<x<0,4 in	<0,71 oz	2,20 lb	7x3,6 in	61+305 in <sup>3</sup>	10,6 in	39,6 lb
 FlexiBowl® 350	0,04<x<0,8 in	<1,4 oz	6,6 lb	9x4,4 in	305+610 in <sup>3</sup>	10,6 in	55 lb
 FlexiBowl® 500	0,2<x<2 in	<3,5 oz	15,4 lb	13x7,4 in	610+1220 in <sup>3</sup>	10,6 in	92 lb
 FlexiBowl® 650	0,8<x<4,3 in	<6 oz	15,4 lb	16x9,8 in	1220+2440 in <sup>3</sup>	10,6 in	119 lb
 FlexiBowl® 800	2,3<x<10 in	<8,8 oz	15,4 lb	16x12,7 in	1220+2440 in <sup>3</sup>	10,6 in	156 lb



PRODUCTIVITY  
**OVER**  
**90** PPM

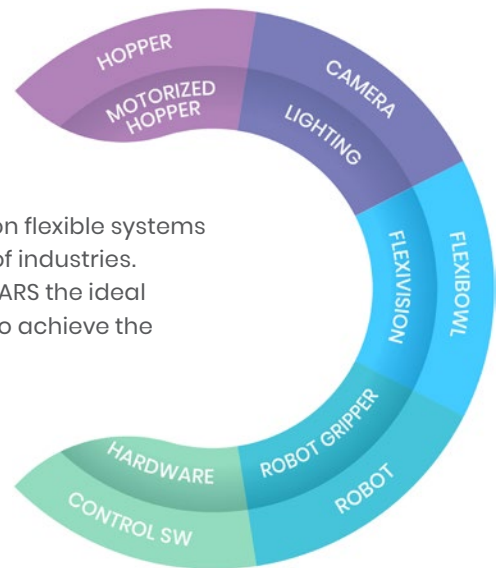


## FlexiBowl® Solution: A turnkey system


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 › Epson › Fanuc › Kuka › Mecalonic › Mitsubishi
- › Omron-Adept › Shibaura › Stäubli › TM › UR › Yaskawa




### OUR SERVICES

 Preliminary Analysis


 Technical Support and Feasibility Test

 Layout and Cycle Time Optimization

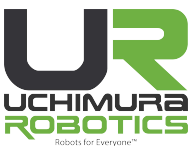
 Equipment Design

 Real-time Assistance and Diagnose

 Training

 On-site Support for System Ramp-up

 Remote Support



1600 Parkwood Circle SE Suite 320 Atlanta, GA 30339  
TEL +1(864) 561-3678  
sales@uchimurrobotics.com

4050 Executive Park Drive Suite 205 Cincinnati, OH 45241  
TEL +1(864) 561-3678  
sales@uchimurrobotics.com www.uchimurrobotics.com



Via G. Vico, 7 | 52100 Arezzo (AR) Italy  
Tel. +39 0575 398611 | Fax +39 0575 398620 | info@arsautomation.com  
[www.arsautomation.com](http://www.arsautomation.com) | [www.flexibowl.com](http://www.flexibowl.com)

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