# FLEXBOW Brocks

Large challenges need simple solutions

### Ease and Reliability

A lean and reliable design guarantees predictable and low maintenance costs

## Flexibility and Productivity

FLEXIBOWL

An answer to complex demand for high performance and frequent product changeovers

# Resilience and Strength

Suitable for both harsh and clean environments

😹 EN

# FlexiBowl® A flexible part feeding system

**FlexiBowl**® is a flexible part feeding device that can be easily integrated 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 dedicated traditional feeders. Its lack of dedicated tooling and its easy to use and intuitive programming software allows quick and multiple product changeovers inside the same work shift.

#### APPLICATION FIELDS



# Fashion accessories and metal parts

Eyeglass components, Buckles, Buttons, Zip Fasteners, etc.



Consumer Electronics Appliance components, Computer,

Cellular Phones, Remote Controls, etc.



House and Personal Care Perfume Dispensers, Spray Pumps, Dental Brushes, etc.



#### Toys and Gadgets

Assembly kitting, loading of painting and pad printing machines, etc.



#### Cosmetics

Mascara, Lipsticks, Powder Compacts, Brushes, Perfumes, etc.

#### COMPONENTS

- 0 | Motorized Hopper Provides higher system capacity
- 1 | Linear Hopper Allows to dispense parts more accurately
- 2 | Wiper Diverts parts from outer wall, back under picking area
- 3 | Servo drive
- 4 | Direct Drive Motor
- 5 | Flip Unit Flips parts and helps distribution
- 6 | Air Blow To separate parts from the lateral sides
- 7 | Belt Disk Wide selection to provide the right grip, background contrast, easy to replace
- 8 | Backlight Infrared, red, white options
- 9 | Toplight Infrared, red, white options
- 10 | FlexiVision vision robot guidance Sends part coordinates to the robot. Controls feeder movements, manages the part flow from the hopper. Part database manager



#### Electrical Components Switches, connectors, fuse holders,

electromagnetic components, coils, etc.



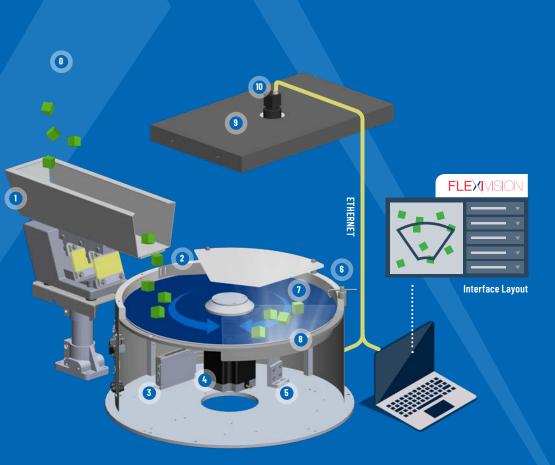
Automobile Switches, actuators, connectors, clins, suspension, gearbox, clutch

Switches, actuators, connectors, clips, suspension, gearbox, clutch, hydraulic fittings, etc.



Medical Disposables

Hypodermic needles &Syringes, Dentistry, etc.





# FlexiBowl<sup>®</sup> Four Sizes easily tailored to meet all your production requirements

#### **A VERSATILE SOLUTION**

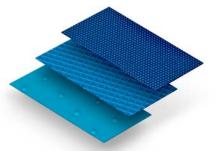
FlexiBowl® solution is highly versatile and able to feed a large variety of parts, differing by: Geometry – curvilinear, complex tridimensional, thin Surface – smooth, sticky, greasy, tangled Material – fragile, silicon and rubber, conductive, pressed and

sheared **Weight and dimensions** 

heavy, voluminous, small

#### **SURFACE OPTIONS**

The rotating disk is available in various colours, textures, degrees of surface adhesion. Ars technical support can assist you to make the correct selection for your application.



#### WHY CHOOSE FLEXIBOWL®

- Feeds gently ideal for delicate parts
- Handles heavier parts in dirty environments
- > No Jams
- > Lean and reliable design
- Low and predictable maintenance
- Easy and intuitive programming
- > Suitable for precision assembly
- > Delivery in 4 weeks
- > Parts always available in stock
- Patented









MODEL SPECIFICATIONS	FlexiBowl® 350	FlexiBowl <sup>®</sup> 500	FlexiBowl <sup>®</sup> 650	FlexiBowl <sup>®</sup> 800
Part size	< 15 mm	< 40 mm	< 110 mm	< 250 mm
Part weight	< 40 g	< 100 g	< 170 g	< 250 g
Backlight area size	177 cm <sup>2</sup>	475 cm <sup>2</sup>	900 cm <sup>2</sup>	1183 cm <sup>2</sup>
Backlight area size (Max. dimensions)	125/220 mm	205/360 mm	390/250 mm	390/315 mm
FlexiBowl Maximum load	3 kg	5 kg	5 kg	5 kg
Hopper Maximum load	5/10 dm³	10/20 dm <sup>3</sup>	20/40 dm <sup>3</sup>	20/40 dm <sup>3</sup>
Overall dimension / Height pick-up surface	Ø 460 / 240 mm	Ø 640 / 240 mm	Ø 800 / 270 mm	Ø 945 / 270 mm
Weight	25 kg	36 kg	51 kg	71 kg





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