

## DATASHEET

# FlexiBowl® 500 C/CC















Flexible feeding system for all parts measuring between **5** and **50 mm** and weighing up to **100 g**

FlexiBowl® 500C/CC can feed products of any geometry, surface and material.

It is compatible with all industrial robots and vision systems. One FlexiBowl® can feed entire ranges of parts measuring 5 to 50 mm and weighing up to 100 g, replacing the need for the numerous units used in conventional systems.

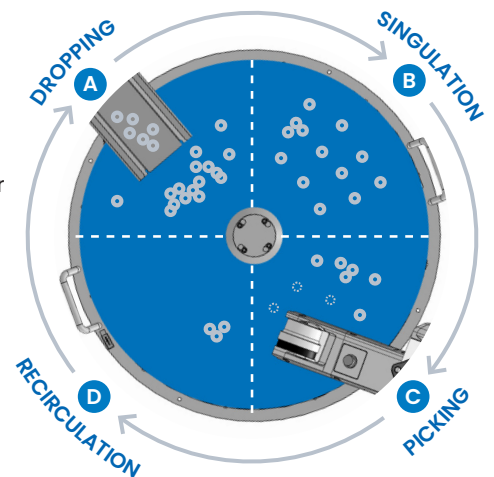


## ADVANTAGES

- |  |  |
|--|--|
|  High performance                                      |  Several singulation options             |
|  Compatible with 99.9% of parts                       |  Accurate location of parts             |
|  Maximum load 7 kg                                    |  Suitable for delicate parts            |
|  Essential design, robust construction                |  Large area for singulation and picking |
|  Cleanroom option (ISO 5)                             |  Quick emptying option                  |
|  Remote-controlled electronics for dirty environments |  Patented                               |
|  Rapid, intuitive integration                         |  Low maintenance                        |

## HOW IT WORKS

Parts dropping, singulation and picking take place simultaneously in dedicated sectors. For greater productivity. In FlexiTrack, all four operations take place simultaneously.



## OPERATING MODES



### Traditional

Parts are singulated by the **combined action of bidirectional** rotation and the pulse generator. Once the parts are separated, the robot uses the coordinates sent by the vision system to locate and pick them up, while the disc is not moving.

PRECISION	■■■■■	LAYOUT	■■■■■
PERFORMANCE	■■■■■	EASY TO INTEGRATE	■■■■■
SINGULATION	■■■■■		



### FlexiTrack

FlexiTrack enables **circular conveyor** tracking of the FlexiBowl®. In the FlexiTrack mode, the vision system operates in the sector just ahead of the robot picking area; processing for the vision system and the robot is simultaneous.

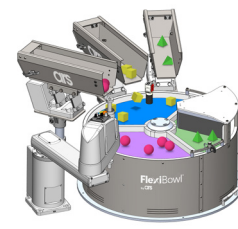
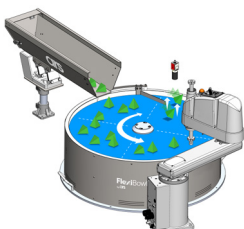
PRECISION	■■■■■	LAYOUT	■■■■■
PERFORMANCE	■■■■■	EASY TO INTEGRATE	■■■■■
SINGULATION	■■■■■		



### Multiple Parts Feeding

This mode permits simultaneous feeding of different parts. One FlexiBowl® can reliably **handle up to 6 different part types**, minimizing layout and production costs.

PRECISION	■■■■■	LAYOUT	■■■■■
PERFORMANCE	■■■■■	EASY TO INTEGRATE	■■■■■
SINGULATION	■■■■■		



## DATASHEET

# FlexiBowl® 500 C/CC

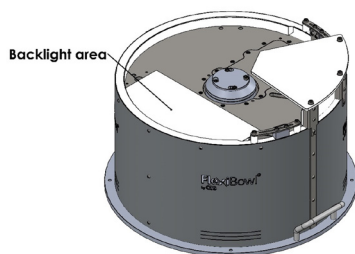
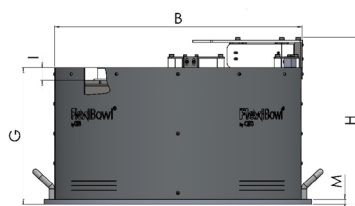
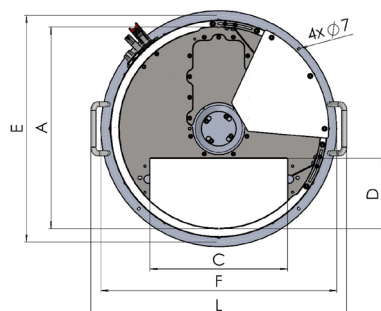
Flexible feeding system for all parts  
measuring between **5** and **50 mm**  
and weighing up to **100 g**

### SPECIFICATIONS

Dimensions of parts	5<x<50mm
Weight of parts	<100g
Backlit area	475cm2
Load capacity	7 kg
Bulk feeder/hopper load capacity	10/20 dm3
Overall dimensions	Ø640 mm
Picking height	270 mm
Installation temperature	0-45 °C
Installation position	Floor
Weight of mechanical assembly	25 Kg
Air pressure (dry and filtered)	6 bar – tubo Ø 6mm
Electronic power supply	110-230 Vac
Red backlight wavelength	630nm
Infrared backlight wavelength	850nm
Absorption	150W
Data connection	<ul style="list-style-type: none"> <li>- Ethernet IP</li> <li>- Digital I/O</li> <li>- TCP/IP-UDP</li> <li>- Gateway for other protocols</li> </ul>

### DIMENSIONS

A	503 mm	G	296 mm
B	533 mm	H	362 mm
C	334 mm	I	28 mm
D	167 mm	L	629 mm
W	556 mm	M	10 mm
F	580 mm	Weight	42 Kg



### OPTIONAL ACCESSORIES

- ▶ Analog electro pneumatic regulator
- ▶ Calibration plate
- ▶ Camera bracket base stand
- ▶ Cleanroom version
- ▶ Custom grooved discs
- ▶ Diverters
- ▶ External swivel gripper
- ▶ FlexiTrack
- ▶ Lighting (White, Red, IR)
- ▶ Multiple parts feeding
- ▶ Quick emptying
- ▶ Remote control box
- ▶ Rotary discs (including FDA-compatible and anti-static)

### PLUG-INS

FlexiBowl is compatible with all TCP/IP socket languages and offers plug-ins for a vast range of robots, including:

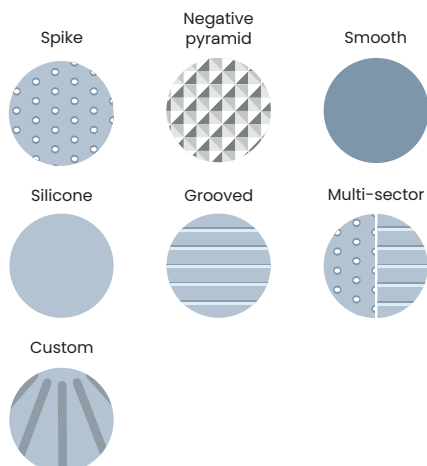
- ▶ ABB
- ▶ Denso
- ▶ Doosan
- ▶ Epson
- ▶ Fanuc
- ▶ Kawasaki
- ▶ Kuka
- ▶ Mecademic
- ▶ Mitsubishi Electric
- ▶ Omron
- ▶ Stäubli
- ▶ Techman Robot
- ▶ Universal Robots

### PLC PLUG-INS AVAILABLE:

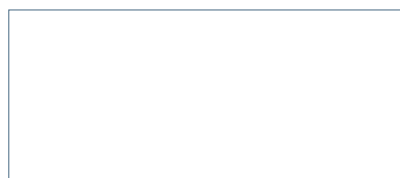
- ▶ Allen – Bradley
- ▶ Omron
- ▶ Siemens

### ROTARY DISC TYPES

Including FDA-compatible and anti-static



### CONTACTS



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