DATASHEET

FlexiBowl® 200 C/CC

Flexible feeding system for all parts measuring between **1** and **10 mm** and weighing up to **20 g**

FlexiBowl 200C/CC orients and separates components and can be integrated with any vision system and any robot for parts feeding. It is highly versatile and capable of feeding parts regardless of their:

→ **Geometry**
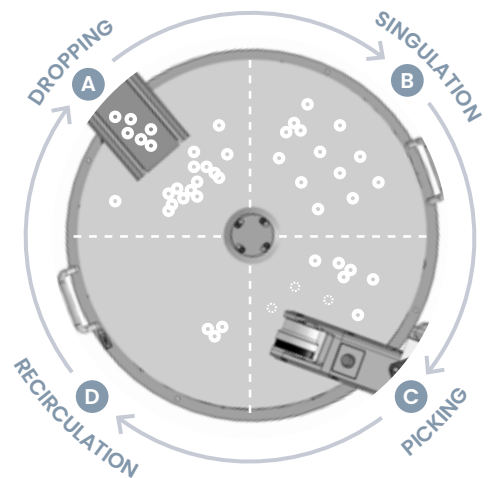→ **Surface**
→ **Material**

ADVANTAGES

- High performance
- Several singulation options
- Compatible with 99.9% of parts
- Accurate location of parts
- Essential design, robust construction
- Suitable for delicate parts
- Specifically engineered for small parts
- Large area for singulation and picking
- Remote-controlled electronics
- Low maintenance
- Rapid, intuitive integration
- Patented

HOW IT WORKS

Parts dropping, singulation and picking take place simultaneously in dedicated sectors. For greater productivity.

NOTE: The FlexiBowl® 200 C/CC is equipped with a rigid disc with an integrated edge to optimize component separation.

DROPPING — A
SINGULATION — B
PICKING — C
RECIRCULATION — D

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	■■■■■	

FlexiBowl® 200 C/CC
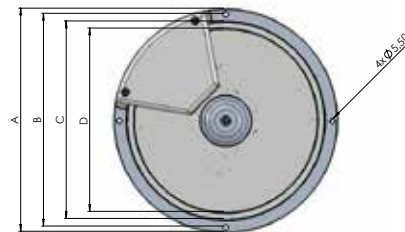
Flexible feeding system for all parts measuring between **1** and **10 mm** and weighing up to **20 g**

SPECIFICATIONS

Dimensions of parts	1<x<10 mm
Weight of parts	<20 g
Backlit area	90 cm2
Load capacity	1 kg
Bulk feeder/hopper load capacity	1.5 dm3
Overall dimensions	254x470 mm
Picking height	172 mm
Installation temperature	5-45 °C
Installation position	Floor
Air pressure (dry and filtered)	6 bar – Ø 6 mm pipe
Electronic power supply	110-230 VAC
Red backlight wavelength	630 nm
Infrared backlight wavelength	850 nm
Absorption	150 W
Data connection	– Ethernet IP – Digital I/O – TCP/IP-UDP – Gateway for other protocols

DIMENSIONS

A	235 mm	F	186,5 mm
B	224 mm	G	168 mm
C	209 mm	H	14 mm
D	193 mm	I	172,5 mm
E	218 mm	Weight	5,63 Kg

Backlight area

ROTARY DISC TYPES

Including FDA-compatible and anti-static

Anti-stick

Smooth

Anti-roll

Custom

OPTIONAL ACCESSORIES

▸ Analog Electro Pneumatic Regulator
▸ Calibration Plate
▸ Camera Bracket Base Stand
▸ Custom grooved Discs
▸ Diverters
▸ External Swivel Gripper
▸ Lighting (white, red, IR)
▸ 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
▸ Hyundai
▸ Kawasaki
▸ Kuka
▸ Mecademic
▸ Mitsubishi Electric
▸ Omron
▸ Shibaura
▸ Stäubli
▸ Techman Robot
▸ Universal Robots
▸ Yaskawa
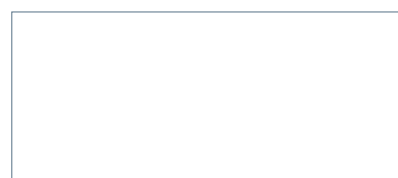
PLC PLUG-INS AVAILABLE:

▸ Allen – Bradley
▸ Omron
▸ Siemens

CONTACTS

Ars s.r.l.
Via G. Vico, 7
52100 Arezzo
Tel: +39.0575.398611
P.I. 01739760518
sales@arsautomation.com
www.flexibowl.com