

DATASHEET

FlexiBowl® 650 C/CC

Flexible feeding system for all parts measuring between 10 and 110 mm and weighing up to 170 g

FlexiBowl® 650C/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 10 to 110 mm and weighing up to 170 g, replacing the need for the numerous units used in conventional systems.

ADVANTAGES



performance



Compatible with 99.9% of parts



Maximum load



Essential design, robust construction



Cleanroom option (ISO 5)



Remote-controlled electronics for dirty environments



Rapid, intuitive integration



Several singulation options



Accurate location of parts



Suitable for delicate parts



Large area for singulation and picking



Quick emptying option



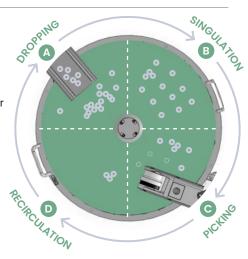
Patented



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.



FlexiBowl

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		
PERFORMANCE		
STNGIII ATTON		



INTEGRATE



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	
SINGULATION	INTEGRATE	





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	 LAY0UT	
PERFORMANCE	EASY TO	
07110111 177011	 INTEGRATE	







DATASHEET

FlexiBowl® 650 C/CC

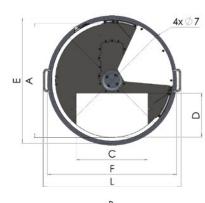
Flexible feeding system for all parts measuring between 10 and 110 mm and weighing up to 170 g

SPECIFICATIONS

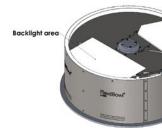
Dimensions of parts	10 <x<110 mm<="" td=""></x<110>	
Weight of parts	<170 g	
Backlit area	922 cm2	
Load capacity	7 kg	
Bulk feeder/hopper load capacity	20/40 dm3	
Overall dimensions	778 mm	
Picking height	270 mm	
Installation temperature	5-45 °C	
Installation position	Floor	
Air pressure (dry and filtered)	6 bars - tube Ø 6 mm	
Electronic power supply	110-230 Vca	
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

Α	662 mm	G	296 mm
В	692 mm	Н	362 mm
С	404 mm	I	28 mm
D	250 mm	L	788 mm
W	716 mm	М	10 mm
F	740 mm	Weight	54 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 FDAcompatible 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









