

DATASHEET

FlexiBowl® 1200 C/CC

Flexible feeding system for all parts measuring between **50 and 300 mm** and weighing up to **300 g**

FlexiBowl® 1200 C/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 50 to 300 mm and weighing up to 300 g, replacing the need for the numerous units used in conventional systems.

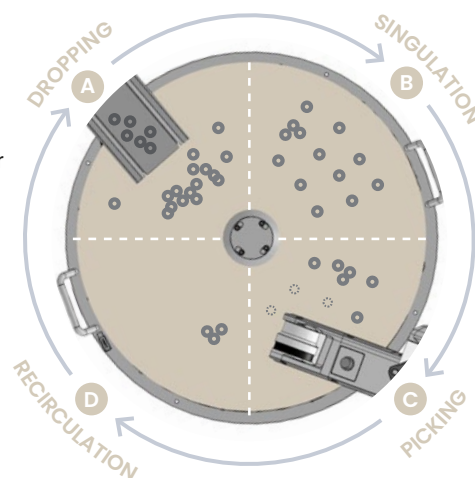


ADVANTAGES

- | | | | |
|--|--|--|--|
| | 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.



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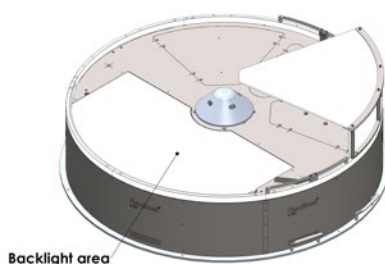
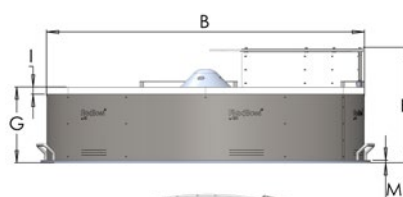
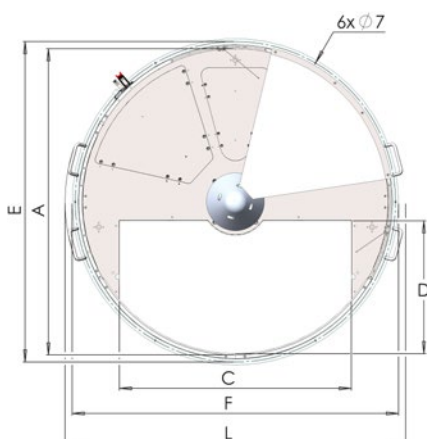
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FEATURES

Dimensions of parts	50<x<300 mm
Weight of parts	<300 g
Backlit area	4120 cm ²
Load capacity	7 kg
Bulk feeder/hopper load capacity	40/60 dm ³
Overall dimensions	1346 mm
Picking height	270 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	1210 mm	G	296 mm
B	1242 mm	H	451 mm
C	917 mm	I	28 mm
D	525 mm	L	1346 mm
E	1266 mm	M	10 mm
F	1290 mm	Weight	175 Kg



OPTIONAL ACCESSORIES

- ▶ Analog electro pneumatic regulator
- ▶ Calibration plate
- ▶ Camera bracket base stand
- ▶ Cleanroom version
- ▶ Diverters
- ▶ External swivel gripper
- ▶ FlexiTrack
- ▶ Lighting (White, Red, IR)
- ▶ 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-certified and anti-static

