rbc robotics basket stacking module

FX LOAD 600

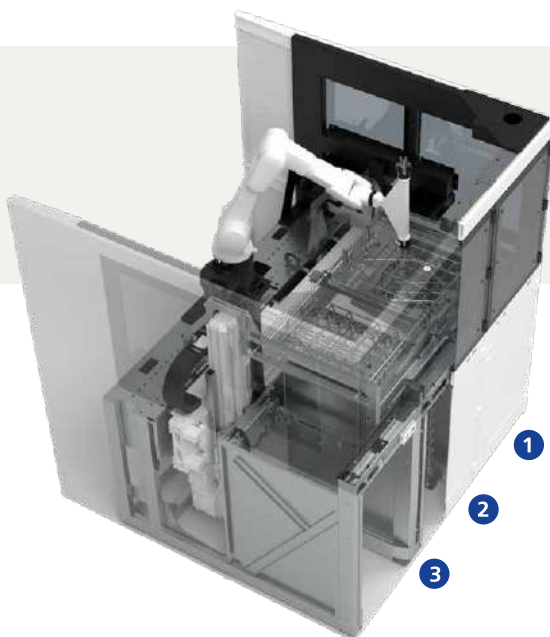**DVS TECHNOLOGY GROUP**

DVS-TECHNOLOGY.COM

rbc robotics basket stacking module

FX LOAD 600

The FX LOAD 600 module series offers many possibilities for separating your products. In particular it serves as a basket stacking module for plastic containers, blisters and wire baskets of 400 x 600 mm.

Technical Data

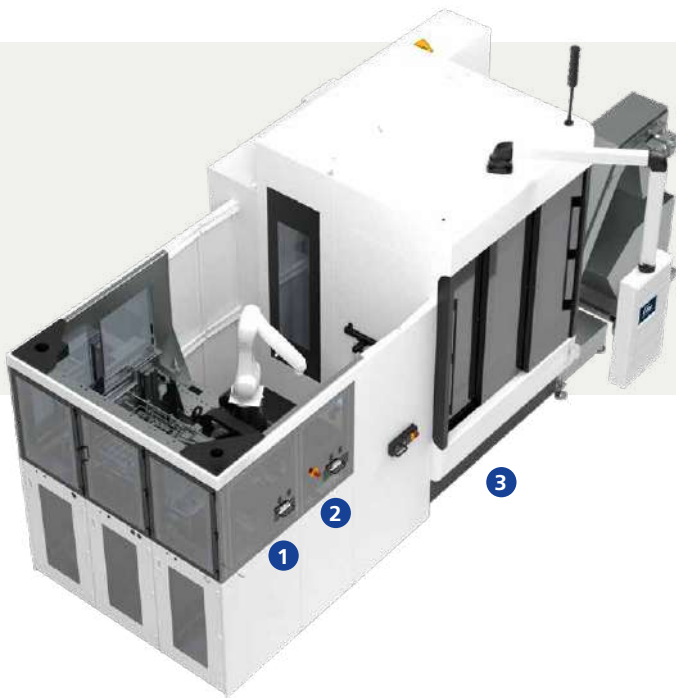|			
Width x length x height	2000 x 2000 x 2100 mm	2650 x 2000 x 2100 mm	3300 x 2000 x 2100 mm
Number of chambers	3	4	5
Container size	400 x 600 mm, basket height 80 to 150 mm, basket weight up to 50 kg		
Implementation	Wire baskets, small load carriers (plastic), blisters		
Max. stacking height	1100 mm		
Sliding protection	Integrated		
Drive	2 NC axes for internal basket handling		
Integrated automation	Roboter KUKA, ABB, FANUC, Epson or loading gantry		
Bottom tray	Sealed throughout, barrier-free basket stack loading cell		
Control	SIEMENS S7 1500		
Basket provision	max. 2 provision places	max. 3 provision places	max. 4 provision places

1 Stack of blanks

2 Stacks of finished parts

3 Buffer stacks for cycle time neutral loading and unloading

Application

The internal handling of the basket stacking module always removes the uppermost basket or container from the stack of unmachined parts and makes it available at a designated staging area. Here, the integrated robot can selectively remove individual workpieces and feed them for further use. The robot can be equipped with a single or double gripper, depending on cycle time and necessity.

The containers are always processed in a fixed sequence by the basket stacking module. Thanks to the integrated sliding protection, the respective stack of finished parts can be removed by the employee without affecting the cycle time and replaced by a stack of unfinished parts.

1 Integrated SPC drawer, lateral/frontal

2 Integrated NIO drawer, lateral/frontal

3 Direct connection to a machine tool

The workpieces are fed in via container stacks on floor rollers

- Simple transport of the workpieces in station-to-station operation
- High autonomy times due to flexible extensions to a higher number of chambers
- Flexible access to the individual chambers via secured doors

The restacking module is the internal handling and the heart of the basket stacking cell

- 2-axes-system for baskets and crates
- Basket handling for a total weight of up to 50 kg
- Two supply stations including sliding protection above the chambers provide the necessary workpiece supply for the integrated robot
- Can be equipped with a single or double gripper
- Flexible and decentralised use
- Memory can be used via „Front-of-Line", „End-of-Line" or on any machine or processing station
- Intelligent workpiece feeding for flexible manufacturing processes: many types of workpieces
- From single pieces to mass production
- Design of the FX modular modules for production processes according to DIN EN ISO 9001:2008 und VDA 6.4

- Clear and user-friendly operation facilitates handling of the automation in production operations and increases acceptance among your employees and customers
- Fast cycle times, simple changeover and user-friendly programming save valuable time and costs