

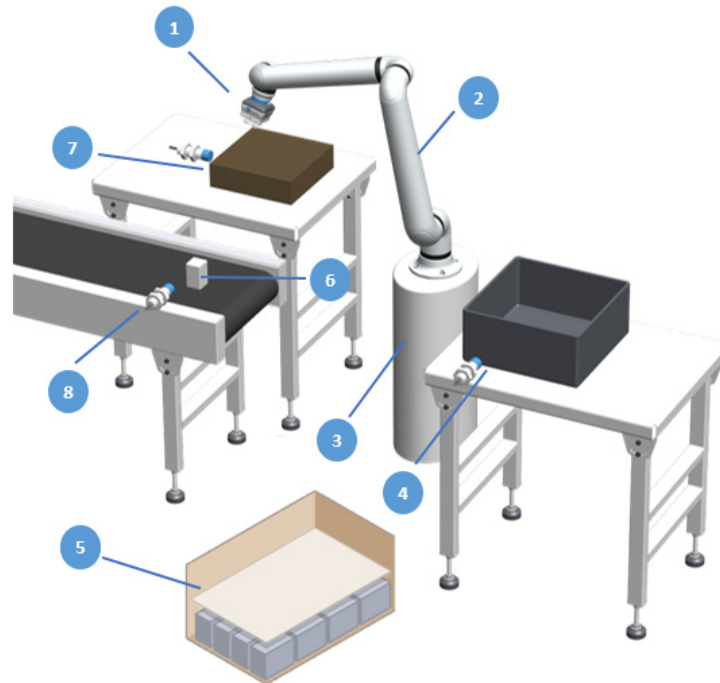


DATASHEET

D:PLOY - PACKAGING APPLICATION

v1.0

Packaging Application



1/ a.	Grippers	2FG7	2FGP20	3FG15	MG10	RG2/R G6	SG-a- H/SG-b- H	VG10	VGC10	VGP20	Gecko SP1/3/5
1/ b.	Tool mounting	Quick Changer			Angle Bracket 45°			Angle Bracket 90°			
2.	Robot brands	ABB	Denso	Doosan	FANUC	FANUC CRX	Techman	UR	Omron TM	Yaskawa	
3.	Robot mounting	Can be mounted at any height					Can be tilted 0°, 30°, 45° or 90°				
4.	Outfeed container (parts to pack into)	Any size (that the gripper and the robot can handle)			Can be mounted at any height, and tilted at any angle (container needs to be tough - 1/2/3 points)			Outfeed container device required. It keeps track of how full, and stop until it is emptied			
5.	Pattern options	Automatic (optionally having the labels facing outward, can calculate pattern to fill)					Manual (easy to use pattern editor, optionally have labels rotated outward, spacing within parts or from edges for snapping)				
6.	Product size/ weight/ type	Any size that the gripper can handle		Any weight that the gripper and robot can handle				Cuboid or Cylindrical (both may not available on a given gripper)			

7.	Interlayer sheet	Cardboard or Paper (full or half size)	Sheets can be picked from a fixed position (spring loaded tray) or based on thickness D:PLOY can “ search ” for the next one (normal tray)	Horizontal or tilted trays supported (can be placed anywhere within robot reach)
8.	Infeed type / multiple parts	Conveyor belt or Turn table	Single part or grouped parts (multiple parts at once for faster cycle time - recommended ot use two sensors in a twin signal configuration)	Can be at any height, and tilted at any angle

Additional information

1a. Grippers

Only OnRobot tools are supported, but can be customized with any **OnRobot accessory**, or custom fingertip/vacuum accessory.

		Finger grippers					Vacuum grippers			Special grippers		
		2FGP20	2FG7	3FG15	RG2	RG6	VG10	VGC10	VGP20	Gecko	MG10	SG
Can grip - single part	Cuboid	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
	Cylindrical	✓	✓ *	✓	✓ *	✓ *	✓	✓	✓	✓	✓	✓
Can grip - multiple parts	Cuboid	✗	✗	✗	✗	✗	✓ **	✓ **	✓ ***	✗	✗	✗
Can pick interlayer sheets		✗	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗
Can drop part		✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓

* With special fingertips.

** Up to two parts.

*** Up to four parts.

1b. Tool mounting

Dual QC and HEX-E/H QC are not supported.

2. Robot brands

Supported robot models and controllers

Robot Type	ABB	Denso	Doosan	FANUC	FANUC CRX	Techman	UR	Omron TM
Robot Model	CRB 15000-5/0.95 IRB 1100-4/0.58 IRB 1100-4/0.47 IRB 120 IRB 1200-5/0.9 IRB 1200-7/0.7 IRB 1600-6/1.2 IRB 1600-6/1.45 IRB 1600-10/1.2 IRB 1600-10/1.45	VM-6083 VM-60B1 VP-6242 VS050A3 VS087A4 VP-5243 VS-050-S2 VS-087A4 VS-6577 VS-6556 VS-087	A0509 A0509s A0912 A0912s H2017 H2515 M0609 M0617 M1013 M1509	CR-4iA CR-7iA CR-7iA/ L LR Mate 200iD LR Mate 200iD/ 4S LR Mate 200iD/ 7L LR Mate 200iD/ 14L	CRX-10iA CRX-10iA/ L CRX-20iA/ L CRX-25iA/ L CRX-5iA	TM12 TM14 TM5-700 TM5-900	UR10 UR10e UR16e UR3 UR3e UR5 UR5e	TM12 TM14 TM5-700 TM5-900
Robot Controller	IRC5 OmniCore	RC8	CS-03 CS-04	R-30iB R-30iB Plus R-30iB Mini Plus	R-30iB Mini Plus	TM	CB3 e-Series	TM

3. Robot mounting

The robot cannot be facing downward (ceiling mounted).

4. Outfeed container (parts to pack into)

Only one outfeed container is supported. The **Outfeed container** sensor can be any ultrasonic, laser/infra or any other type 24V digital sensor.

5. Pattern options

All calculations are done in the cloud using fast servers to save time.

6. Product size/weight/type

For parts smaller than the gripper, **drop part** function can be used if bottom cannot be reached.

7. Interlayer sheet

This is optional, and only shown if **Interlayer sheet sensor** device is configured in the cell setup. The sensor can be any ultrasonic, laser/infra or any other type 24V digital sensor.

8. Infeed type / multiple parts

Integrator must take care of the conveyor belt driving and timing (based on the infeed sensor). The infeed sensor can be any ultrasonic, laser/infra or any other type 24V digital sensor.

Estimated cycle time

The displayed cycle time in D:PLOY is an estimate. The actual cycle time might vary, depending on the parameters of your application and your robot:

- For ABB, the error on the estimation is expected to be less than 5%.
- For Denso, the error on the estimation is expected to be less than 5%.
- For Doosan, the error on the estimation is expected to be less than 15%.
- For FANUC, the error on the estimation is expected to be less than 10%.
- For Techman, the error on the estimation is expected to be less than 10%.
- For UR, the error on the estimation is expected to be less than 5%.
- For Omron TM, the error on the estimation is expected to be less than 10%.

Layout configuration

- With or without interlayer sheet
- Single or grouped parts being picked
- Infeed/interlayer at any angle

Examples

