D4 - 500

The essence of

natural innovation for

pick and place robotics

The Codian Robotics D4-500 four-axis delta robot is ideal for high speed toploading pick & place processes.

The parallel kinematic design is clean, fast and silent. The D4-500 is designed to perform with payloads up to 2 kg and has a working envelope of 500 mm (in combination with a rotation axis 450 mm in diameter).

The robot can be controlled by various industry standard motion control systems. Combined with a vision system, it can also be used for random and/or mixed product flow picking.

- Open platform for servo motors and control systems
- Designed for applications up to 15G
- ISO mount gripper interface
- Materials: carbon fibre, anodized aluminium, titanium, plastic
- Zero footprint
- Low maintenance, easy accessible

Codian Robotics b.v.
Wildeman 2 | 3905 TL Veenendaal | The Netherlands
Phone: +31 (0)318 502 671 | info@codian-robotics.com

D4 - 500

THE NEW STANDARD FOR PICKING AND PLACING

SPECIFICATIONS

Kinematic structure:	delta type
Degrees of freedom:	3+1*
Protection:	IP 65
Noise level:	< 68 dB(A)
Weight:	25 kg

*with optional rotation axis

PERFORMANCE

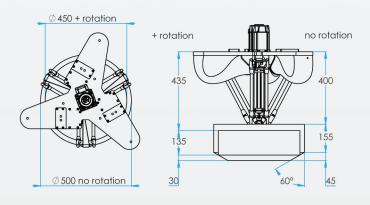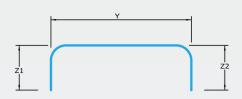|	
Rated working range:	ø 500 x 155 mm
	ø 450 x 135 mm*
Rotation-Axis (Rz):	angle unlimited*
Payload (max.):	2 kg
Pick and Place actions:	max. 200 p/min
Position repeatability X,Y,Z:	± 0.1 mm
Angular repeatability Rz*:	± 0.3 °
Limitation rotation axis torque*:	16 Nm

*with optional rotation axis

WORKING RANGE

CYCLE TIMES

Path Z1 x Y x Z2*:	Payload:	Cycle times **:
25 x 305 x 25	0.1 kg	0.30 s
25 x 305 x 25	0.5 kg	0.40 s
25 x 305 x 25	1 kg	0.50 s
25 x 305 x 25	2 kg	1.00 s

*one cycle is two moves: forwards and backwards to the start position without pick-up and place time

**cycle times are theoretical and can vary depending on the application, programming and other parameters