

CODIAN
ROBOTICS

D4 - 500 DEMO

The essence of
natural innovation for
pick and place robotics

The Codian Robotics D4-500 demo pick & place robot is a delta robot, which can be easily transported for educational applications, demonstrations or exhibitions.

With the table legs the robot can be placed on a table top within 5 minutes. The robot can be ordered with a flight case (only possible for robots without rotation axis).

The parallel kinematic design is clean, fast and silent. The D4-500 demo is designed to perform with payloads up to 2 kg and has a working envelope of 500 mm. The robot can be controlled by various industry standard motion control systems.

- Open platform for servo motors and control systems
- ISO mounted gripper interface
- Materials: carbon fibre, anodized aluminium, stainless steel, titanium, plastic
- Low maintenance, easy accessible

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D4 - 500 DEMO

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

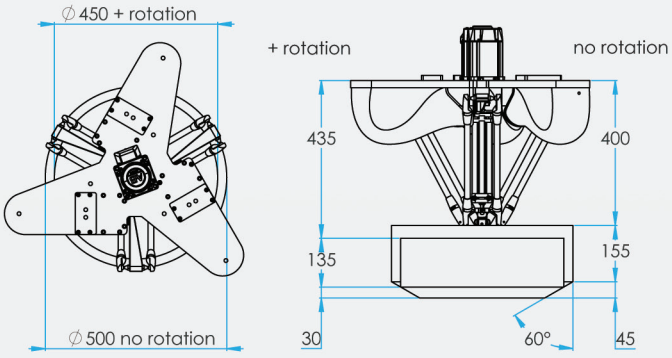
*with optional rotation axis

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

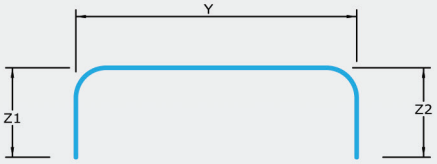
*with optional rotation axis

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	0.55 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