



CODIAN
ROBOTICS

D4 - 1600

The essence of
natural innovation for
pick and place robotics

The Codian Robotics D4-1600 four-axis robot is the largest delta robot in the world (!) and is ideal for high speed toploading pick & place processes.

The parallel kinematic design is clean, fast and silent. The D4-1600 is designed to perform very high payloads up to 8 kg and has a working envelope of 1600 mm.

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 medium to heavy high-speed applications
- ISO mount gripper interface
- Materials: stainless steel, carbonfiber, titanium, anodized aluminium, plastic
- Zero footprint
- Low maintenance, easy accessible

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THE NEW STANDARD FOR PICKING AND PLACING

SPECIFICATIONS

Kinematic structure:	delta type
Degrees of freedom:	3+1*
Protection:	IP 65
Noise level:	< 70 dB(A)
Weight:	115 kg

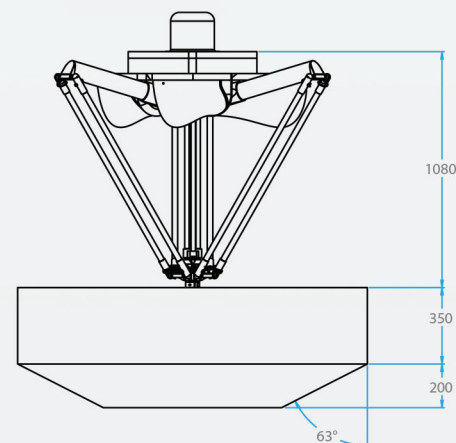
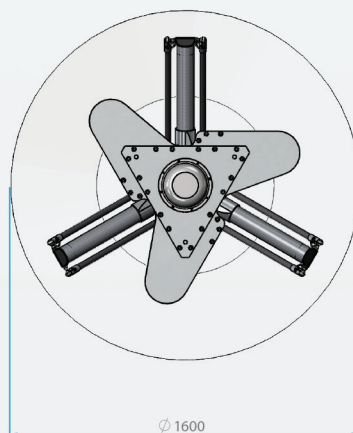
*with optional rotation axis

PERFORMANCE

Rated working range:	ø 1600 x 350 mm
Rotation-Axis (Rz):	angle unlimited*
Payload (max.):	8 kg
Pick and Place actions:	max. 100 p/min
Position repeatability X,Y,Z	± 0.8mm
Angular repeatability Rz*:	± 0.3 °
Limitation rotation axis torque*:	60 Nm

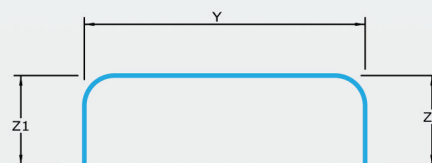
*with optional rotation axis

WORKING AREA



CYCLE TIMES

Path Z1 x Y x Z2*:	Payload:	Cycle times **:
25 x 300 x 25	8 kg	1.00 s
200 x 500 x 200	8 kg	1.50 s
200 x 1000 x 200	8 kg	1.65 s
200 x 1500 x 200	8 kg	1.77 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

