



CODIAN
ROBOTICS

D2 - 1000

The essence of
natural innovation for
pick and place robotics

The Codian Robotics D2-1000 two-axis delta robot is ideal for high speed toploding pick & place processes. The proven concept design with a minimum of mechanical components results in a high quality robot.

The parallel kinematics design is clean, fast and silent. The D2-1000 is designed to perform with high payloads up to 30 kg and has a working envelope of 1000 mm. The robot can be controlled by various industry standard motion control systems.

- Open platform for servo motors and control systems
- ISO mount gripper interface
- Materials: carbon fibre, stainless steel and anodized aluminium
- Zero footprint
- Almost maintenance free, easy accessible

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THE NEW STANDARD FOR PICKING AND PLACING

SPECIFICATIONS

Kinematic structure:	delta type
Degrees of freedom:	2+1*
Protection:	IP 65
Noise level:	< 70 dB(A)
Weight:	75 kg

*with optional rotation

PERFORMANCE

Rated working range:	1000 x 342 mm
Rotation (Rz):	angle unlimited*
Payload (max.):	30 kg
Pick and Place actions:	max. 50 p/min
Position repeatability X,Y,Z:	± 0.3mm
Angular repeatability Rz*:	± 0.1 °
Limitation rotation torque*:	22 Nm

*with optional rotation

CYCLE TIMES

Path Z1 x Y x Z2*:	Payload:	Cycle times **::
500 x 300 x 100	5 kg	1.20 s
500 x 300 x 100	10 kg	1.71 s
500 x 300 x 100	30 kg	2.00 s
200 x 500 x 300	5 kg	1.71 s
200 x 500 x 300	10 kg	2.40 s
200 x 500 x 300	30 kg	2.73 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

WORKING RANGE

