D2 - 1000 TWIN

The essence of
natural innovation for
pick and place robotics

The Codian Robotics D2-1000 TWIN two-axis delta robot is ideal for high speed toploading pick & place processes. The robot consists of a double D2-1000 mechanic. This enables the application of stable (long) end-effectors on high speeds. The proven concept design with a minimum of mechanical components results in a high quality robot.

The parallel kinematic design is clean fast, and silent. The D2-1000 TWIN is designed to perform with high payloads up to 40 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
- Materials: carbon fibre, stainless steel and anodized aluminium
- Zero footprint
- Almost maintenance free, easy accessible

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

D2 - 1000 TWIN

THE NEW STANDARD FOR PICKING AND PLACING

SPECIFICATIONS

Kinematic structure:	delta type
Degrees of freedom:	2
Protection:	IP 65
Noise level:	< 70 dB(A)
Weight:	200 kg

WORKING RANGE

PERFORMANCE

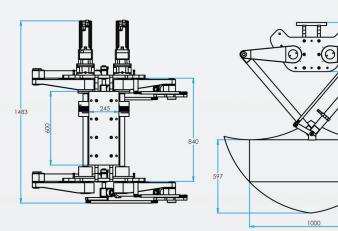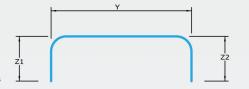|	
Rated working range:	1000 x 342 mm
Payload (max.):	40 kg
Pick and Place actions:	max. 40 p/min
Position repeatability X,Y,Z:	± 0.3mm

CYCLE TIMES

Path Z1 x Y x Z2*:	Payload:	Cycle times **:
500 x 300 x 100	10 kg	1.71 s
500 x 300 x 100	25 kg	2.00 s
500 x 300 x 100	40 kg	3.10 s
200 x 500 x 300	10 kg	2.40 s
200 x 500 x 300	25 kg	2.73 s
200 x 500 x 300	40 kg	3.85 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