



Dorna 25

Easy to use, cost-effective, and industrial-grade robotic arm in a compact form factor.

DORNA ROBOTICS

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Features

Robot Arm

- Up To 2 kg Payload.
- 500 mm Reach.
- 1,200 mm/s Speed.

Controller

- 3 Auxiliary Closed Loop Axes.
- Web-Based Multi-Platform Software.
- High-Speed And Real-Time Communication.





Tool-head Connectors

4 x IO pins and 2 x air-ports available at the head of the robot.



Absolute Encoders

High-resolution absolute encoders on all joints, provide accurate and repeatable positioning with no homing required at the startup.



Regenerative Braking

A novel braking mechanism prevents crashes and damage to the robot or workpiece by activating when power is abruptly disconnected.



Applications

A compact and lightweight robot designed to excel in industrial automation by delivering superior ease of use, speed, accuracy, and versatility. 01

High-Speed Pick And Place

02

Assembly

03

Lab Automation

04

Creative Production

Specs



Mechanical	
Payload	1.5 kg / 3.3 lb (max 2 kg / 4.4 lb)
Reach	500 mm / 19.7 in
Repeatability	0.1 mm / 0.0039 in
Tool speed	1,200 mm/s / 47.24 in/s
Physical	
Robot arm weight	7.5 kg / 16.5 lb
Controller box weight	3.8 kg / 8.4 lb
Robot cable length	3 m / 118.11 in
Robot footprint	72 x 72 mm / 2.83 x 2.83 in
I/O	
Digital inputs	8 pins, 24 V
Digital outputs	8 pins, 24 V
PWM	2 channels, 3.3 V
Air ports	2 ports at the robot head
Auxiliary axes	3 step/dir interface with encoder inputs
Electrical	
Power supply	100-240 VAC (selectable), 47-440 Hz
Power consumption	100 W using a typical program (350 W max)
Interface	
Programming	Dorna Lab, Python API, Blockly, Socket API
Communication	Ethernet, WiFi



Contact Us

Contact us to learn more

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