ONT Robot 협동로봇 코보타   COBOTTA

Anywhere, anytime, hassle-free.
A robot that collaborates with everyone.

With the initial purpose of increasing the productivity of our own automobile component manufacturing facilities, we have been developing DENSO robots for 50 years. Today, we introduce the new collaborative robot "COBOTTA". The human-friendly, compact, and portable design allows you to take COBOTTA anywhere, and automate tasks right away. No expert knowledge is required, making operation amazingly easy.

Do you need that extra hand? Do you want to leave simple tasks to robots, and make more time for creative work? COBOTTA will open infinite possibilities to address your needs, and realize creative, new ideas.

1 safety design

Collaborative robots do not require safety fences. The unique outer contour has no sharp edges, and consists of curves that prevent hands from getting caught. Sensors are built into the six moving parts for constant monitoring of speed and torque, to guarantee safety from a functional aspect (planning to obtain certification from a third-party certification authority).

2 portable body

The main unit weighs approximately 4 kg providing easy portability, and offers a load capacity of 500 g. The integrated controller not only reduces wiring, but also allows consolidated control with other devices. ORiN is supported as standard.

3 easy to use

Equipped with a direct teaching function and an intuitive GUI for easy programming. An optional camera can be mounted to enable teaching using the camera.

4 open platform

The integrated controller is open, and COBOTTA's control API is made public, allowing creators to develop their own applications in the environment they choose (OSS version).

* COBOTTA is a registered trademark of DENSO CORPORATION.

Term	Specification
Axes	6 + 1 (for an electric gripper) [*1]
Drive motor / brake	All axes AC servo motor/J1 to J5 with brake
Total arm length (1st arm + 2nd arm)	342.5(165+177.5)mm
Rated load capacity (Maximum payload)	0.5 kg (* 0.7 kg wrist direction downward within ± 10 degrees)
Position repeatability	±0.05mm [*2]
Maximum composite speed (center of tool mounting face)	Default 500 (min. 100 to max. 1500.)
Protected type	IP30
Software	Standard type: COBOTTA dedicated software, OSS type: none (* Linux, etc. can be installed by customer)
Power supply specifications (AC adaptor)	Input: single-phase 100 to 240 AC/Output: 24DC (approx. 180 W)
External signal	System fix input: 8 points / System fix output: 8 points User open input: 8 points / User open output: 8 points Emergency stop device connector: 1ch
External communication	Ethernet x 1 line, USB x 2 lines, VGA output x 1 ch
Weight	Approx. 4 kg
Standards for safety	ISO 10218-1:2011 ISO/TS 15066 ISO 13849-1:2015 PL d (* planning to obtain certification from a third-party certification authority)

*1. Optional *2. At constant ambient temperature