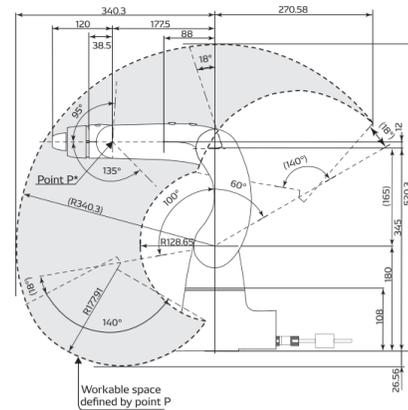
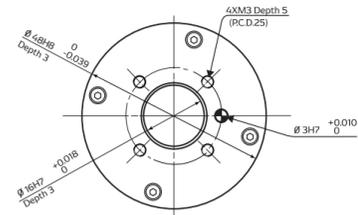
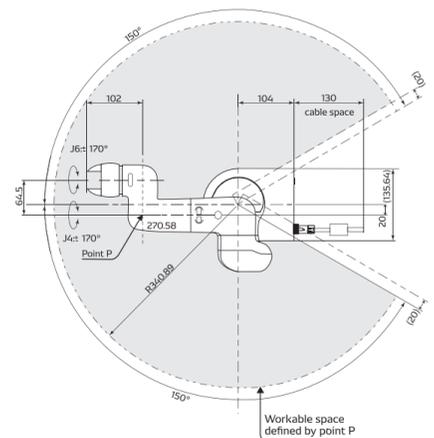


Workspace COBOTTA

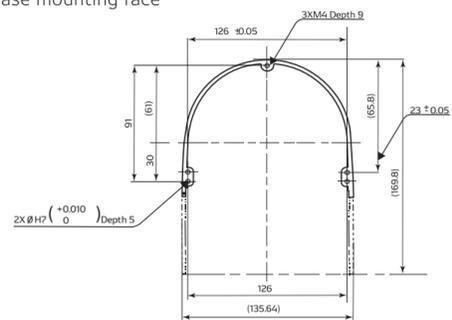
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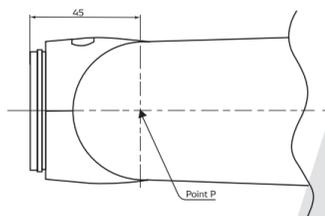
* Centre Point P axis 5



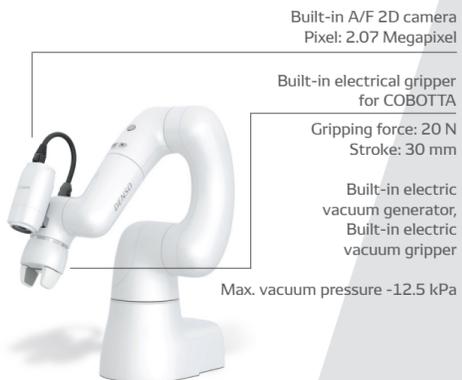
Detailed drawing of base mounting face



Without gripper



Gripper weight: 0.2 kg Camera weight: 0.213 kg <small>*Convert to 0.15 kg when camera is attached as option</small>	Payload	
	All directions (no limit of angles)	Wrist downward (+/-10 degrees)
1. Gripper: No Camera: No	0.5 kg	0.7 kg
2. Gripper: Yes Camera: No	0.3 kg	0.5 kg
3. Gripper: No Camera: Yes	0.3 kg	0.55 kg
4. Gripper: Yes Camera: Yes	0.1 kg	0.35 kg



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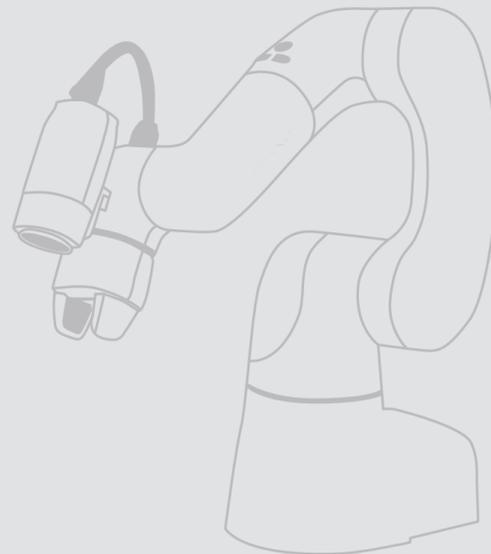
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COBOTTA



Specifications

Axes	6+1 (for an electric gripper) ⁽¹⁾
Drive motor/brake	All axes AC servo motor/J1 to J5 with brake
Arm length (1st arm + 2nd arm)	342.5 (165 + 177.5) mm, TCP 385 mm
Maximum payload	0.5 kg (*0.7 kg wrist direction downward within +/- 1.0 degrees) ⁽²⁾
Position repeatability	± 0.05 mm ⁽³⁾
Composite speed	Default 450 mm/s
Degree of protection	IP 30
Software	Standard type: COBOTTA dedicated OS software, OSS type: none
Power supply specifications (AC adapter)	Input: single-phase 230 V /Output: 24 VDC (approx. 180 W)
External signal	System fix input: 12 ports/ System fix output: 11 ports User open input: 8 ports / User open output: 9 ports External emergency stop device
External communication	Ethernet, 2x USB, Field Network prepared for EtherCAT, ProfiNet, EtherNet/IP as option
Weight	Approx. 4 kg
Standards for safety	ISO 10218-1:2011, ISO/TS 15066:2016, 150 13849-1:2015 PL d Cat. 3, TÜV Rheinland

⁽¹⁾ Options. ⁽²⁾ Without electric gripper. ⁽³⁾ At fixed ambient temperature or lower.

System configuration

Option

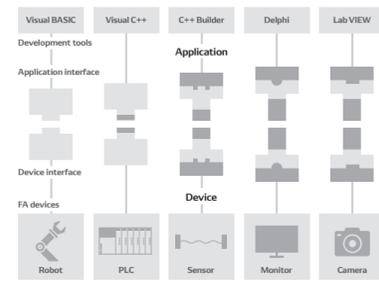
- Built-in A/F 2D camera¹
- Built-in Electric gripper
- Built-in electrical vacuum generator/vacuum gripper
- Mini I/O cable
- VGA cable²

Standard included items

- AC adapter / AC cable ³
- Manual disc
- Software DVD for **COBOTTA**
- **COBOTTA World** (App) ⁴
- Remote TP (App) ⁴
- WINCAPS III
- EVP (Easy Vision Picking) ⁵
- Emergency stop + cable

Peripherals

- Ethernet cable, USB cable, Mini I/O cable (option), VGA cable



ORiN

¹The hub must have a PoE supply function for use. ²Used to display the COBOTTA development screen when using the OSS version
³To be selected matched to power outlets in the country of use. ⁴Android OS applications can be downloaded from Google Play Store. ⁵To be installed on a tablet or PC

COBOTTA

For Human Robot Collaboration



Inherently safe design & functional safety

The unique design of **COBOTTA** has no sharp edges or pinch points and ensures safe collaboration with humans. In addition, there are sensors built into the six axis for constant monitoring of speed and torque, to guarantee functional safety as well.



Open platform

The integrated controller consists of an open platform, allowing developers to create their own applications in the environment they choose (OSS version). In addition to DENSO Robotics standard OS and programming possibilities, the robot is compatible with various programming languages for individual development environment (Linux ROS) and can be connected to all kind of devices. ORiN is supported.



Portable body

The **COBOTTA** arm with the integrated controller only weighs 4 kg, providing easy portability and maximum flexibility, i.e. to combine the robot with mobile platforms. The integrated controller reduces both the wiring and the required working space. Transporting and installing **COBOTTA** anywhere and anytime is simply & easy.



Built-in Controller

COBOTTA features a controller fully integrated in the robot arm – a unique DENSO Robotics design. This offers many advantages including a low total weight of only 4 kg, a small space requirement and easy transportation. The controller also facilitates joint control with other devices.

Easy to use

COBOTTA offers a direct teaching function and an intuitive GUI for easy programming. The built-in A/F camera and the built-in electrical gripper combined with the standard programming Apps allows creating new applications quickly - even for users not yet familiar with robots.



Easy programming

COBOTTA World is a teaching assistant application exclusively designed for **COBOTTA**. The intuitive App helps you easily and quickly create a new **COBOTTA** application. Moving the **COBOTTA** arm directly, you can easily teach position or complete paths and use them directly in visual block commands.

