



Collobro Colla 0617

CC 0617

Safe - Flexible - Compact

Matchlessly compact yet fully comprehensive
Flexible for shifting workstations, applications
Ideal for collaborative mode tasks

SICK
Sensor Intelligence.



6 kg

1700mm

Collobro Colla
"Instant profitability"



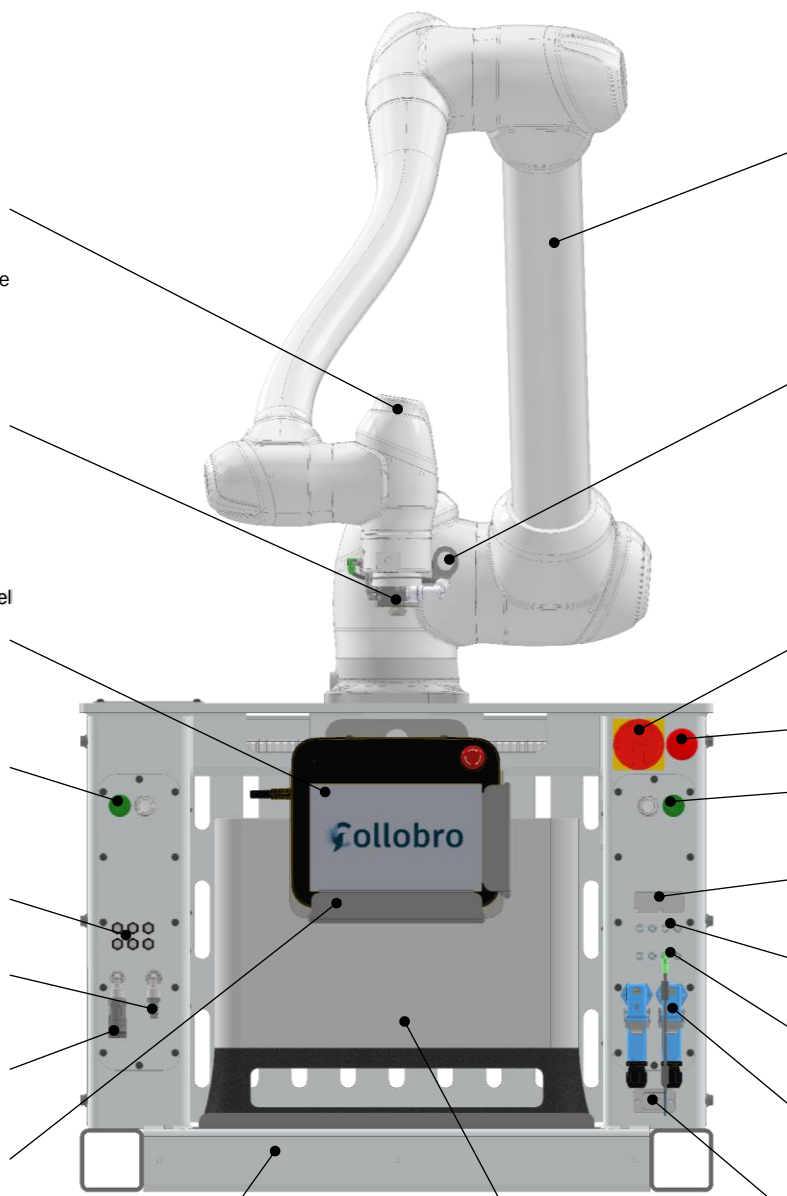
Some Feature Highlights

Collobro Colla 0617

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“The most compact yet comprehensive Cobot Concept ever”



- Direct control unit,**
- Free move of arm
 - Save positions
 - Control move in X/Y plane
 - Control move in Z axis
 - *Optional

- Automatic Tool Changer,**
- Fits all Collobro tools
 - 4x 3/2 valves
 - 3 digital inputs
 - 3 digital outputs
 - Power +24/-0 VDC

- Teach pendant touch panel**
- Simple robot teaching
 - Icon drag & drop based
 - Ready skills & templates

- Programmable buttons,**
- Start/stopp/control

- Pneumatic outputs,**
- Program controlled
 - 3x 5/2 valves

- Air supply connection,**
- Incoming air supply

- Air supply connection,**
- Feeding of external equipment.

Panel and cable holder

- Collobro Colla Heart,**
- Connect it to Collobro peripherals and tools and you get unlimited user possibilities
 - Delivered fully connected

- Doosan Cobot Controller,**
- Delivered fully connected to all functionality

- Doosan's awarded 6 axis Cobot,**
- Doosan Cobot M0617
 - *See further separately specified details

- Dress Pack,**
- Robot hose organizes tubes and cables connected to tool changer as well as additional

- Main Power Switch**
- Empowers front sign light showing machine power status

- Emergency stop button**

- Programmable buttons,**
- Start/stopp/control

- Ethernet, USB connections**
- Ethernet, Fieldbus, Serial, Wifi

- Digital input connections**
- 4x for external devices

- Digital output connections**
- 4x for external devices

- Power drive connections**
- 2x 4 Amp, program controlled by relays, for external device drive

- Main power connection**
- Typ F (CEE 7/4) IEC 60320, C19
 - 230 VAC, 16 Amp



Integrated Cobot – Doosan M0617

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► State-of-the-Art | Controller

- Top-notch control platform for perfect and reliable robot control
- Maximize performance of torque sensor through innovative and advanced motion control algorithm and robot language
- Providing the latest communications technology to ensure compatibility with other automation environment
- Icon-based Skills* for easy and simple teaching of complicated robot motions



Robust platform with Real-time OS and 1msec. communication speed of EtherCAT, ensuring perfect performance even in tough environments

* Ethernet, Fieldbus, Serial, Wifi, etc.



Easy and simple robot teaching by various types of Skills and Templates

► Human-Centered | Teach Pendant

- Capacitive touch and high resolution 1280x800 screen for friendly user experience
- Light-weight and ergonomic design enabling inherently-comfortable grip
- Ultra-intuitive usability by simple graphic-informative communication



Intuitive Card View to monitor all information on robot operation environment at a glance



Simple and easy robot teaching with icon drag-and-drops



Doosan M0617 – Performance

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Performance

| | |
|--------------------|---------|
| Degrees of freedom | 6 |
| Rated payload | 6kg |
| Max.reach | 1,700mm |
| Tool speed | 1m/s |
| Repeatability | ± 0.1mm |
| Temperature | 0-45°C |

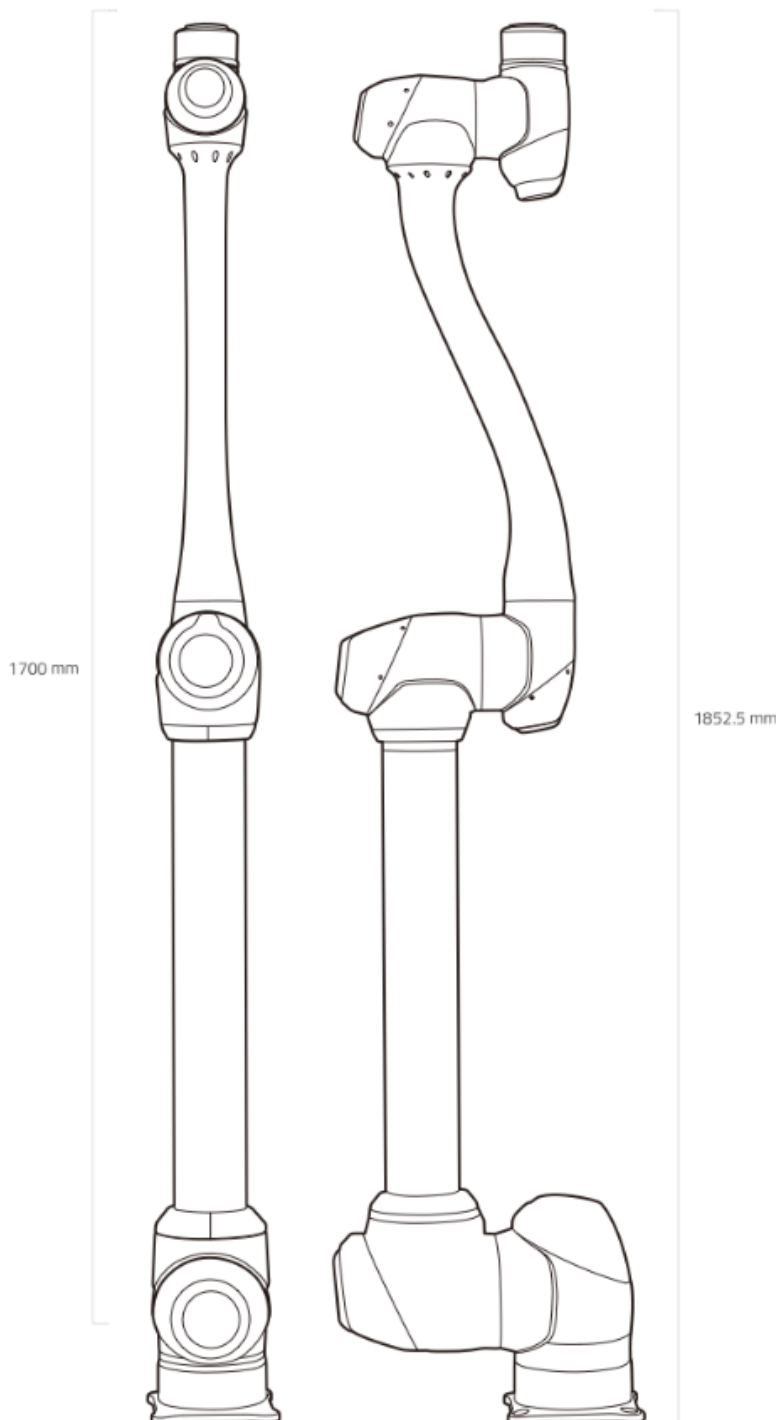
Joint Movement

| | |
|------------------|----------------|
| J1 Range / Speed | ±360° / 100°/s |
| J2 Range / Speed | ±360° / 100°/s |
| J3 Range / Speed | ±165° / 150°/s |
| J4 Range / Speed | ±360° / 225°/s |
| J5 Range / Speed | ±360° / 225°/s |
| J6 Range / Speed | ±360° / 225°/s |

Other Features

| | |
|-----------------------|----------------------------|
| Weight | 34kg |
| Installation position | Any (Floor, ceiling, wall) |
| Protection Rating | IP54 |
| Digital I/O – flange | 6 In / 6 Out |
| I/O power supply | DC 24V/ Max. 3A |

* The above specification is subject to change without prior notice.





Doosan M0617 – Performance

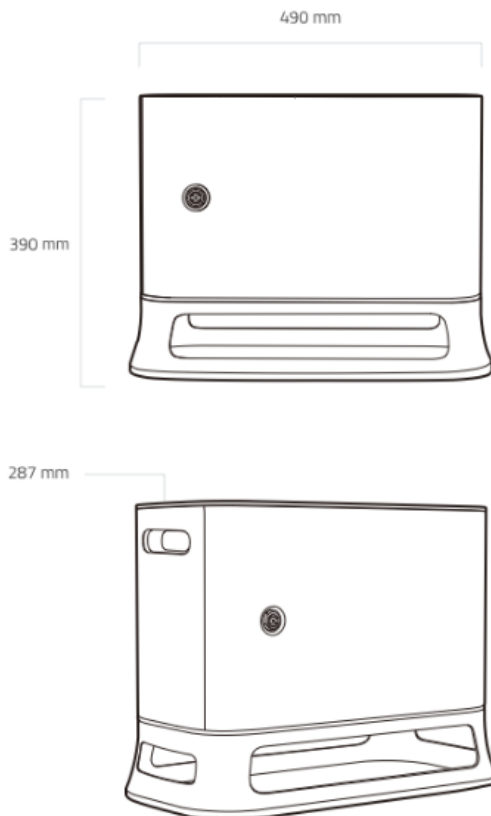
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Arm

Controller

Teach Pendant



Basic

| | |
|-------------------|----------------------------------------------------------|
| Interfaces | Ethernet / Wifi / RS232 / Modbus / Ethernet TCP/IP |
| Dimensions | 490 x 390 x 287 mm |
| Weight | 9 kg |
| Protection Rating | IP20 |

Other Features

| | |
|------------------------|-------------------------|
| I/O Port – Digital I/O | 16 / 16 |
| I/O Port – Analog I/O | 2 / 2 |
| I/O power supply | DC 24 V |
| Fieldbus | Modbus |
| Rated supply voltage | 100~240(50~60Hz) VAC |

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Doosan M0617 – Performance

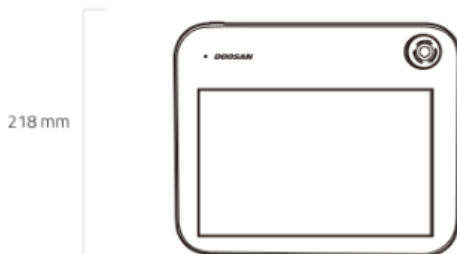
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Arm

Controller

Teach Pendant



Basic

| | |
|----------------------|--------------------|
| Protection Rating | IP20 |
| Dimensions | 264 x 218 x 42 mm |
| Weight / Screen Size | 0.8 kg / 10.1 inch |
| Cable Length | 4.5 m |

* The above specification is subject to change without prior notice.



Doosan M0617 VALUE ADDING *of the COBOT*

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DM0617-01

Value-Adding | Enhancer

Direct Control Unit : Cockpit

The optimal option to maximize user experience enables you to select a wide range of teaching modes and save coordinates with a simple five-button operation.



DM0617-03

Value-Adding | Enhancer

Robot Jacket

Protects robot from contamination by liquids used during cutter support work, etc. PU coating forms a 2-stage water barrier which ensures Doosan robot to maintain optimum operation conditions.





Doosan M0617 VALUE ADDING *of the* COBOT

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DM0617-04

Value-Adding | Enhancer 03

Stain-Resistant Model

The enhanced anti-stain function makes it easy to manage the appearance even in a work environment that is exposed to contamination.

