



## Collobro Endure 0609

# CE 0609

Fast - Safe - Flexible

Matchlessly compact yet fully comprehensive  
Flexible for shifting workstations, applications  
Maximized Cobot speed – No safety jeopardy  
Unique, patented Safety System

**SICK**  
Sensor Intelligence.



6 kg

900mm

**Collobro Endure**  
"Instant profitability"



## Some Feature Highlights

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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/stop/control

### Pneumatic outputs,

- Program controlled
- 3x 5/2 valves

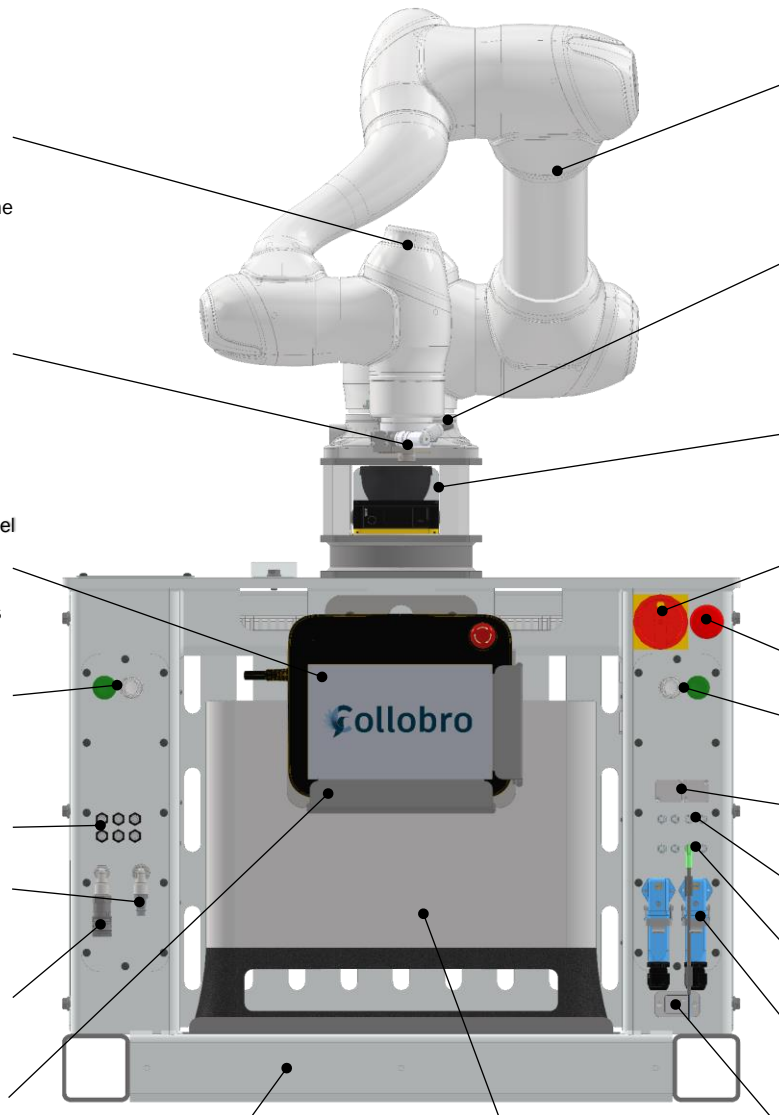
### Air supply connection,

- 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's smallest Cobot M0609  
 \*See further separately specified details

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

**SICK - Safety Laser Scanner,**  
 - Unique, patented safety system  
 - Continuous speed maximization without jeopardizing safety

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

**Emergency stop button**

**Programmable buttons,**  
 - Start/stop/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 M0609

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Fast – Safe – Flexible



### ► 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 M0609 – Performance

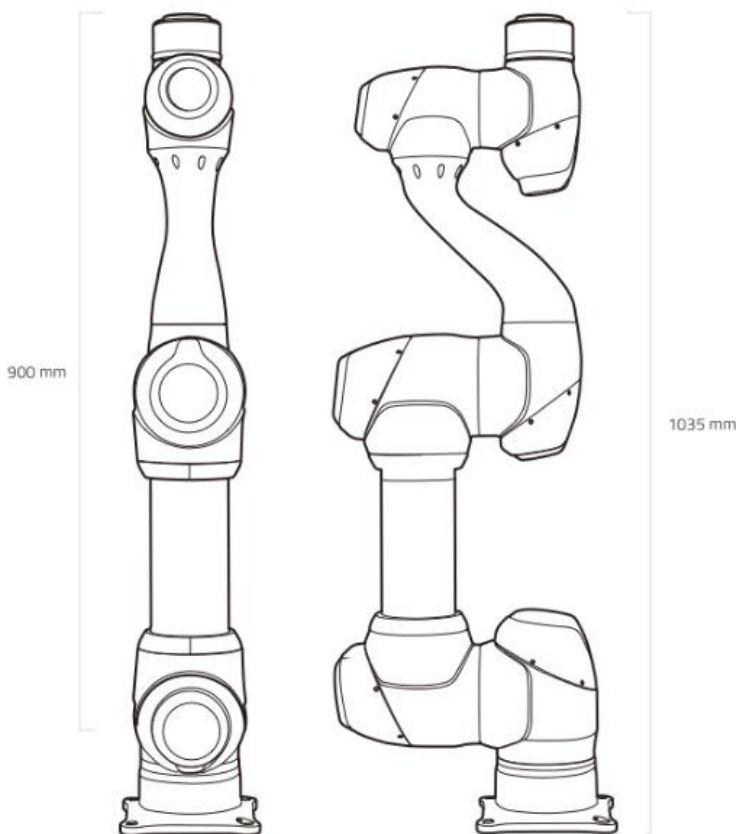
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### Arm

### Controller

### Teach Pendant



### Performance

Degrees of freedom	6
Rated payload	6 kg
Max.reach	900 mm
Tool speed	1 m/s
Repeatability	± 0.1 mm
Temperature	0-45°C

### Joint Movement

J1 Range / Speed	±360° / 150°/s
J2 Range / Speed	±360° / 150°/s
J3 Range / Speed	±150° / 180°/s
J4 Range / Speed	±360° / 225°/s
J5 Range / Speed	±360° / 225°/s
J6 Range / Speed	±360° / 225°/s

### Other Features

Weight	27 kg
Installation position	Any (Floor, ceiling, wall)
Protection Rating	IP54
Digital I/O – flange	6 In / 6 Out
I/O power supply	DC 24 V / Max. 3 A

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



## Doosan M0609 – Performance

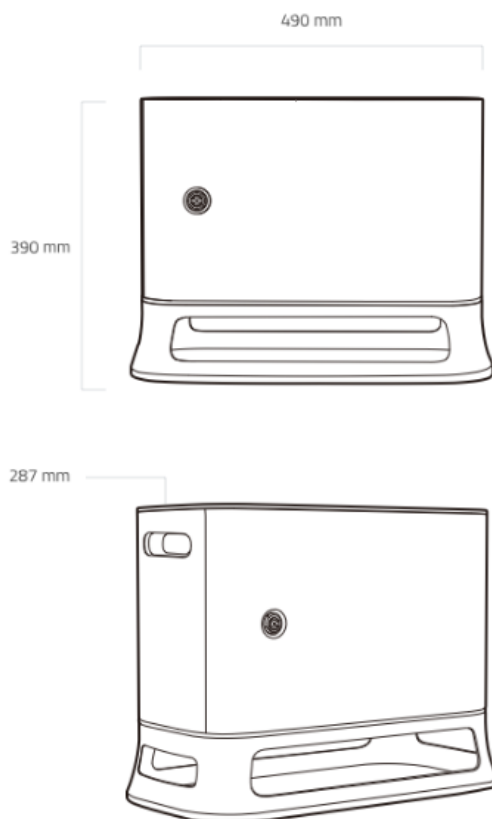
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Arm

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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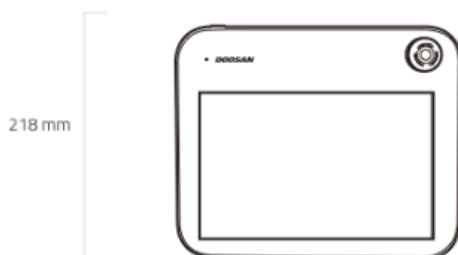
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### Basic

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 M0609 VALUE ADDING *of the COBOT*

# CE 0609

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### DM0609-01

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.



### DM0609-03

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 M0609 VALUE ADDING *of the* COBOT

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### DM0609-04

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.

