

Arm

Performance	
Tool Speed	1 m/s
Repeatability	±0.1 mm
Temperature	0~45 °C

Joint Movement (Range : ° / Speed : °/s)				
	M0609	M1509	M1013	M0617
J1	±360 ° / 150 ° /s	±360 / 150 ° /s	±360 ° / 120 ° /s	±360 / 100 ° /s
J2	±360 ° / 150 ° /s	±360 / 150 ° /s	±360 ° / 120 ° /s	±360 / 100 ° /s
J3	±150 ° / 180 ° /s	±150 / 180 ° /s	±160 ° / 180 ° /s	±165 / 150 ° /s
J4	±360 ° / 225 ° /s	±360 / 225 ° /s	±360 ° / 225 ° /s	±360 / 225 ° /s
J5	±360 ° / 225 ° /s	±360 / 225 ° /s	±360 ° / 225 ° /s	±360 / 225 ° /s
J6	±360 ° / 225 ° /s	±360 / 225 ° /s	±360 ° / 225 ° /s	±360 / 225 ° /s

Other Features	
Installation Position	Any (Floor / Ceiling / Wall)
Protection Rating	IP 54
Digital I/O – Flange	6 In / 6 Out
I/O Power Supply	DC 24 V / Max. 3 A

Controller

Interfaces	Serial (RS232) / USB 3.0 (RS422/485*) / Ethernet (TCP/IP)
Industrial Network**	Modbus-TCP (Master/Slave) / Modbus-RTU (Master) / EtherNet/IP (Adapter) / PROFINET IO (Device)
Dimensions	490 x 390 x 287 mm
Weight	9 kg
Protection Rating	IP 30
I/O Port – Digital I/O	16 / 16
I/O Port – Analog I/O	2 / 2
I/O Power Supply	DC 24 V
Rated Supply Voltage	100~240 (50~60Hz) VAC
Cable Length (Arm)	6.0 m
Cable Length (TP)	4.5 m

*USB to RS422/485 converter required
**Network gateway can be used for wider variety of communication methods

Teach Pendant

Protection Rating	IP 40
Dimensions	264 x 218 x 42 mm
Weight / Screen Size	0.8 kg / 10.1 inch

Doosan Robotics

Visit www.doosanrobotics.com for more details on Doosan Robotics
For inquiries, please contact sales.robotics@doosan.com



Switch on the Future
Doosan Robotics





reddot award 2017
winner



reddot award 2018
winner

The Cobot of The Future

The ideal automation partner for human-robot collaboration



- **Sensitive & Safe**

Enhanced functional safety based on highly sensitive torque sensor

- **Talented & Skillful**

Precise and versatile force control for remarkable performance

- **Reliable & Innovative**

Leading-edge control algorithm upon a robust software platform

- **Intuitive & Simple**

Ultra-intuitive usability like smart devices





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winner

► Best-In-Class | Manipulator

- 6-axis articulated robot with top-class force sensitivity and collision detection
- Outstanding safety and precise operation by 6 joint torque sensors
- Most optimal solution of collaborative robots with diversified work payload capacity and reach of product lineup
- Diversified product lineup enabling to select the optimal robot solution

M0609

6 kg payload capacity, 0.9 m reach radius
Optimized for quick and repetitive tasks
in small spaces



Payload : 6 kg
Reach : 900 mm

M1509

Industry's largest payload capacity of 15 kg,
0.9 m reach radius
Suitable for handling heavy objects that pose
risk to humans



Payload : 15 kg
Reach : 900 mm

M1013

10 kg payload capacity, 1.3 m reach radius
Versatile model adequate for all work
processes



Payload : 10 kg
Reach : 1,300 mm

M0617

6 kg payload capacity, industry's largest reach
radius of 1.7 m
Most efficient for handling more than two work
processes or carrying out tasks to require long
reach



Payload : 6 kg
Reach : 1,700 mm

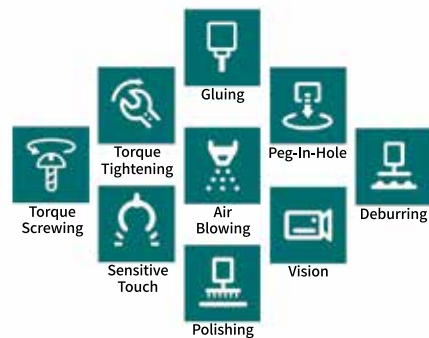
► State-of-the-Art | Controller

- 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

► Value-Adding | Enhancers

Direct Control Unit-Cockpit

- Convenient solution for direct teaching without teach pendant
- 5 buttons for selecting various teaching modes and coordinate input



Mobile Base

- Mounted with robot and controller for easy movement and relocation
- Spacious and convenient storage available for tools and peripherals



► 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

Dress Pack

- Allows efficient operation by organizing various cables attached to end effectors
- Built-in bracket inside tube holder makes it easier to reinstall in



※ Enhancers are optional items, not included in the basic robot system.

Stain-Resistant Model

- Enhanced anti-stain finish enabling easy maintenance against dirt and stain



※ Water Jacket option is available for prevention of moisture and stain