

Collaborative Robots

TM5

Collaborative robot for assembly, packaging, inspection and logistics

- Designed to promote a safe and harmonious workplace between humans and machines.
- Easy-to-use graphical programming environment for quick startup and operation.
- Built-in vision-based robot control enables visual serving, inspection, and measurement operations.
- TMvision and landmark allows truly flexible, fast changeover.
- Plug & Play ecosystem provides the tools and versatility for many manufacturing needs.
- Capability to integrate with mobile robots enables fully autonomous machine tending and logistics handling applications.



Specification

		TM5					
Product Name		TM5-700	TM5M-700	TM5M-700 SEMI	TM5-900	TM5M-900	TM5M-900 SEMI
Weight (kg)		22.1			22.6		
Controller Weight (kg)		13.5	14.5	14.5	13.5	14.5	14.5
Max Payload (kg)		6			4		
Reach (mm)		700			900		
Mounting		Wall, Table, Ceiling					
Typical Speed (m/s)		1.1			1.4		
Joint Range	Joint 1	±270°					
	Joint 2, 4, 5	±180°					
	Joint 3	±155°					
	Joint 6	±270°					
Joint Speeds	Joint 1, 2, 3	180°/s					
	Joint 4, 5, 6	225°/s					
Repeatability (mm)		±0.05					
IP		IP54 (robot arm), IP32 (control box), IP40 (robot stick)					
Cleanroom Class		ISO Class 3					
Food Grade Grease Version		Yes	No	No	Yes	No	No
Operating Temperature and Humidity		0 to 50°C, 85% max. (with no condensation)					
Storage Temperature and Humidity		-20 to 60°C, 75% max. (with no condensation)					
Operating and Storage Atmosphere		No corrosive gases or exposure to water-soluble cutting oil*					
Power Supply		100-240 VAC, 50-60 Hz	22-60 VDC	22-60 VDC	100-240 VAC, 50-60 Hz	22-60 VDC	22-60 VDC
Robot Arm Cable Length		3m/12m	1.5m	1.5m	3m/12m	1.5m	1.5m
I/O Ports	Control Box	Digital In: 16 Digital Out: 16 Analog In: 2 Analog Out: 1					
	Tool	Digital In: 4 Digital Out: 4 Analog In: 1 Analog Out: 0					
I/O Interface		3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0					
Communication		RS232, Ethernet (master), Modbus TCP/RTU (master & slave), Optional Fieldbus (EtherNet/IP or PROFINET)					
Integrated Camera		5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color
I/O Power Supply		24V 1.5A (control box and tool)					
Programming Environment		TMflow, flowchart based					
SEMI S2 Certified*		No	No	Yes	No	No	Yes

* SEMI safety SEMI safety guidelines are issued by an industry association with the same name: SEMI (Semiconductor Equipment and Materials International), which is the central global network of manufacturers of micro- and nano-electronics industries.

* SEMI S2 is the most well-known standard in semiconductor manufacturing equipment for Environmental, Health, and Safety (EHS).

* If water-soluble cutting oil is present, use a protective sleeve to prevent damage to the robot housing. OMRON offers enhanced joint covers for these applications. Contact your local OMRON representative for more information.

Collaborative Robots

TM12/14

Collaborative robot for assembly, packaging, inspection and logistics

- Designed to promote a safe and harmonious workplace between humans and machines.
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TM12

TM14

Specifications

		TM12			TM14		
Product Name		TM12	TM12M	TM12M SEMI	TM14	TM14M	TM14M SEMI
Weight (kg)		33.3			32.6		
Controller Weight (kg)		13.8	14.5	14.5	13.8	14.5	14.5
Max Payload (kg)		12			14		
Reach (mm)		1300			1100		
Mounting		Wall, Table, Ceiling					
Typical Speed (m/s)		1.3			1.1		
Joint Range	Joint 1	±270°					
	Joint 2, 4, 5	±180°					
	Joint 3	±166°			±163°		
	Joint 6	±270°					
Joint Speeds	Joint 1, 2	120°/s					
	Joint 3	180°/s					
	Joint 4, 5	180°/s			150°/s		
	Joint 6	180°/s					
Repeatability (mm)		±0.1					
IP		IP54 (robot arm), IP32 (control box), IP40 (robot stick)					
Cleanroom Class		ISO Class 3					
Food Grade Grease Version		Yes	No	No	Yes	No	No
Operating Temperature and Humidity		0 to 50°C, 85% max. (with no condensation)					
Storage Temperature and Humidity		-20 to 60°C, 75% max. (with no condensation)					
Operating and Storage Atmosphere		No corrosive gases or exposure to water-soluble cutting oil*					
Power Supply		100-240 VAC, 50-60 Hz	22-60 VDC	22-60 VDC	100-240 VAC, 50-60 Hz	22-60 VDC	22-60 VDC
Robot Arm Cable Length		3m/12m	1.5m	1.5m	3m/12m	1.5m	1.5m
I/O Ports	Control Box	Digital In: 16 Digital Out: 16 Analog In: 2 Analog Out: 1					
	Tool	Digital In: 4 Digital Out: 4 Analog In: 1 Analog Out: 0					
I/O Interface		3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0					
Communication		RS232, Ethernet(master), Modbus TCP/RTU (master & slave), Optional Fieldbus (EtherNet/IP or PROFINET)					
Integrated Camera		5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color
I/O Power Supply		24V 1.5A (control box and tool)					
Programming Environment		TMflow, flowchart based					
SEMI S2 Certified*		No	No	Yes	No	No	Yes

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Collaborative Robots

TM16

Collaborative robot for assembly, packaging, inspection and logistics

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TM16

Specifications

		TM16			
Product Name		TM16	TM16M	TM16M SEMI	TM16X
Weight (kg)		32.2			31.9
Controller Weight (kg)		14.1			
Max Payload (kg)		16			
Reach (mm)		900			
Mounting		Wall, Table, Ceiling			
Typical Speed (m/s)		1.1			
Joint Range	Joint 1	±270°			±360°
	Joint 2, 4, 5	±180°			±360°
	Joint 3	±166°			±163°
	Joint 6	±270°			±360°
Joint Speeds	Joint 1, 2	±120°			
	Joint 3, 4, 5, 6	±180°			
Repeatability (mm)		±0.1			
IP		IP54 (robot arm), IP32 (control box), IP40 (robot stick)			
Cleanroom Class		ISO Class 3			
Operating Temperature and Humidity		0 to 50°C, 85% max. (with no condensation)			
Storage Temperature and Humidity		-20 to 60°C, 75% max. (with no condensation)			
Operating and Storage Atmosphere		No corrosive gases or exposure to water-soluble cutting oil*			
Power Supply		100-240 VAC, 50-60 Hz	22-60 VDC	22-60 VDC	100-240 VAC, 50-60 Hz
Robot Arm Cable Length		3m/12m	1.5m	1.5m	3m/12m
I/O Ports	Control Box	Digital In: 16 Digital Out: 16 Analog In: 2 Analog Out: 1			
	Tool	Digital In: 4 Digital Out: 4 Analog In: 1 Analog Out: 0			
I/O Interface		3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0			
Communication		RS232, Ethernet(master), Modbus TCP/RTU (master & slave), Optional Fieldbus (EtherNet/IP or PROFINET)			
Integrated Camera		5M pixels, color			
I/O Power Supply		24V 1.5A (control box and tool)			
Programming Environment		TMflow, flowchart based			
SEMI S2 Certified*		No	No	Yes	No

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Collaborative Robots

TM20

Increased power and versatility for assembly, packaging, inspection and logistics

- The combined 20 kg payload capacity and 1300 mm reach expands material handling capabilities.
- Easy-to-use graphical programming environment for quick startup and operation.
- Built-in vision-based robot control enables visual serving, inspection, and measurement operations.
- TMvision and landmark allows truly flexible, fast changeover.
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Specifications

Product Name		TM20		TM20X	
Power Source		AC	DC	AC	DC
Weight (kg)		33		33	
Controller Weight (kg)		14.1			
Max Payload (kg)		20			
Reach (mm)		1300			
Mounting		Wall, Table, Ceiling			
Average Speed (m/s)		1.3			
Joint Range	Joint 1	±270°		±360°	
	Joint 2, 4, 5	±180°		±360°	
	Joint 3	±163°			
	Joint 6	±270°		±360°	
Joint Speeds	Joint 1, 2	90°/s			
	Joint 3	120°/s			
	Joint 4	150°/s			
	Joint 5	180°/s			
	Joint 6	225°/s			
Repeatability (mm)		±0.1			
Ingress Protection		IP54 (robot arm), IP32 (control box), IP40 (robot stick)			
Cleanroom Class		ISO Class 3			
Operating Temperature and Humidity		0 to 50°C, 85% max. (with no condensation)			
Storage Temperature and Humidity		-20 to 60°C, 75% max. (with no condensation)			
Operating and Storage Environment		No corrosive gases or exposure to water-soluble cutting oil*			
Power Supply		100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC
Robot Arm Cable Length		3 or 12	1.5	3 or 12	1.5m
I/O Ports	Control Box	Digital In: 16 Digital Out: 16 Analog In: 2 Analog Out: 1			
	Tool	Digital In: 4 Digital Out: 4 Analog In: 1 Analog Out: 0			
I/O Interface		COM: 3, HDMI: 1, LAN: 3, USB2.0: 4, USB3.0: 2			
Communication		RS232, Ethernet(master), Modbus TCP/RTU (master & slave), PROFINET (optional), EtherNet/IP (optional)			
I/O Power Supply		24 VDC 2.0 A (control box) / 24 VDC 1.5 A (tool)			
Programming Environment		TMflow, flowchart based			
Integrated Camera Available		5 MP, color		None	
SEMI S2 Certified*1 Available		No	Yes	No	No
Fieldbus Available		EtheNet/IP, PROFINET			

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Ordering Information

Model Number Legend

RT6 -
 (1) (2) (3) (4) (5) (6) (7) (8)

No.	Item	Specifications	Symbol
(1)	Collaborative Robots - Omron Techman		
(2)	Model Type	TM5	0
		TM12	1
		TM14	2
		TM 16	8
		TM 20	4
(3)	Power Supply	AC	0
		DC	1
(4)	Vision System	Integrated Camera	0
		No Camera (X Model)	1
(5)(6)	Arm Length	700 (TM5)	70
		900 (TM5 and TM16)	90
		1300 (TM12)	13
		1100 (TM14)	11
(7)	Other Options	Standard	0
		SEMI S2 Certified	1
		Fieldbus (EtherNet/IP or PROFINET)	2
(8)	Cable Length	Standard Length (3m/1.5m) *2	1
		Extended Length (12m) *3	2

Robot Parts Code and Bundled Accessories

Type	TM5-700					TM5-900				
Product Name	TM5-700	TM5M-700	TM5M-700 SEMI	TM5X-700	TM5MX-700	TM5-900	TM5M-900	TM5M-900 SEMI	TM5X-900	TM5MX-900
Overview	Robot and control box with built-in vision system				Robot and control box without vision system	Robot and control box with built-in vision system				Robot and control box without vision system
Purpose	Typical for use in single collaborative robot system					Typical for use in single collaborative robot system				
Bundled Accessories	<ul style="list-style-type: none"> • TM5-700 robot arm (1), standard cable length 300 cm, optional 600 cm and 1200 cm • Robot stick (1), 300 cm • Control box (1) • Calibration plates (one large and one small) (not included with the X model bundles) • IO cables,(2) 100 cm • Landmark (2) (not included with the X model bundles) • Ground wire (2), 300 cm • Jumper wire (2), 3 cm • Power cable for the control box,(4 cable, Type B, I, G, F), 180 cm, (4 standard part number, 1 mobile part number) • SEMI emergency OFF switch (SEMI model only) • SEMI Estop cable (1), 300 cm 					<ul style="list-style-type: none"> • TM5-900 robot arm (1), standard cable length 300 cm, optional 600 cm and 1200 cm • Robot stick (1), 300 cm • Control box (1) • Calibration plates (one large and one small) (not included with the X model bundles) • IO cables,(2) 100 cm • Landmark (2) (not included with the X model bundles) • Ground wire (2), 300 cm • Jumper wire (2), 3 cm • Power cable for the control box,(4 cable, Type B, I, G, F), 180 cm, (4 standard part number, 1 mobile part number) • SEMI emergency OFF switch (SEMI model only) • SEMI Estop cable (1), 300 cm 				
Type	TM12					TM14				
Product Name	TM12	TM12M	TM12M SEMI	TM12X	TM12MX	TM14	TM14M	TM14M SEMI	TM14X	TM14MX
Overview	Robot and control box with built-in vision system				Robot and control box without vision system	Robot and control box with built-in vision system				Robot and control box without vision system
Purpose	Typical for use in single collaborative robot system					Typical for use in single collaborative robot system				
Bundled Accessories	<ul style="list-style-type: none"> • TM12 robot arm (1), standard cable length 300 cm, optional 600 cm and 1200 cm • Robot stick (1), 300 cm • Control box (1) • Calibration plates (one large and one small) (not included with the X model bundles) • IO cables,(2) 100 cm • Landmark (2) (not included with the X model bundles) • Ground wire (2), 300 cm • Jumper wire (2), 3 cm • Power cable for the control box,(4 cable, Type B, I, G, F), 180 cm, (4 standard part number, 1 mobile part number) • SEMI emergency OFF switch (SEMI model only) • SEMI Estop cable (1), 300 cm 					<ul style="list-style-type: none"> • TM14 robot arm (1), standard cable length 300 cm, optional 600 cm and 1200 cm • Robot stick (1), 300 cm • Control box (1) • Calibration plates (one large and one small) (not included with the X model bundles) • IO cables,(2) 100 cm • Landmark (2) (not included with the X model bundles) • Ground wire (2), 300 cm • Jumper wire (2), 3 cm • Power cable for the control box,(4 cable, Type B, I, G, F), 180 cm, (4 standard part number, 1 mobile part number) • SEMI emergency OFF switch (SEMI model only) • SEMI Estop cable (1), 300 cm 				

Type	TM16					TM20				
Product Name	TM16	TM16M	TM16M SEMI	TM16X	TM16MX	TM20	TM20M	TM20M SEMI	TM20X	TM20MX
Overview	Robot and control box with built-in vision system			Robot and control box without vision system		Robot and control box with built-in vision system			Robot and control box without vision system	
Purpose	Typical for use in single collaborative robot system					Typical for use in single collaborative robot system				
Bundled Accessories	<ul style="list-style-type: none"> • TM16 robot arm (1), standard cable length 300 cm, optional 600 cm and 1200 cm • Robot stick (1), 300 cm • Control box (1) • Calibration plates (one large and one small) (not included with the X model bundles) • IO cables, (2) 100 cm • Landmark (2) (not included with the X model bundles) • Ground wire (2), 300 cm • Jumper wire (2), 3 cm • Power cable for the control box, (4 cable, Type B, I, G, F), 180 cm, (4 standard part number, 1 mobile part number) • SEMI emergency OFF switch (SEMI model only) • SEMI Estop cable (1), 300 cm 					<ul style="list-style-type: none"> • TM20 robot arm (1), standard cable length 300 cm, optional 600 cm and 1200 cm • Robot stick (1), 300 cm • Control box (1) • Calibration plates (one large and one small) (not included with the X model bundles) • IO cables, (2) 100 cm • Landmark (2) (not included with the X model bundles) • Ground wire (2), 300 cm • Jumper wire (2), 3 cm • Power cable for the control box, (4 cable, Type B, I, G, F), 180 cm, (4 standard part number, 1 mobile part number) • SEMI emergency OFF switch (SEMI model only) • SEMI Estop cable (1), 300 cm 				

Accessories & Software

Accessories

Appearance	Product Name	Description	Remarks	Part Number
	Landmark	Robot positioning tool as a reference to the environment.	2 included with purchase of a robot. Compatible with all hardware versions.	RT6-A000021
	Landmark	Robot positioning tool as a reference to the environment.	Legacy version with TM logo. Compatible with all hardware versions.	RT6-A000008
	Mobile Workstation (MWS)	MWS is a convenient tool for users to mount the robot arm on work surface, and store the control box safely within. Users can move the MWS with the robot to different work cells easily.	Compatible with OMRON TM5-700, TM5-900, TM5S and TM7S.	RT6-A000010
	Robot stand	Similar to MWS, the robot stand can be moved with the robot to different work stations easily.	Height adjustable. Compatible with OMRON TM5-700, TM5-900, TM5S and TM7S.	RT6-A000009
	SSD with cable	128 GB solid state hard drive.	SATA cable included. Recommended for external cameras image logging.	RT6-A000012
	Kit, calibration set with additional pin	Toolkit for teaching a precise tool center point (TCP) that can be used for manual workspace calibration within TMvision	Required for TCP and manual vision calibration	RT6-A000002
	Robot stick stand	Mounting fixture for the robot stick.	Can be used on desktops, walls, and MWS.	RT6-A000000
	Air Filter (ROHS)	Replacement air filter for the control box.	The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual.	19936-443F
	Fieldbus Communication Adapter	Fieldbus retrofit kit for Omron TM cobots. Adds EtherNet/IP and Profinet communication capabilities.	Installation must be performed by Omron personnel.	19936-820F
	Robotiq Adaptive Gripper 2-Finger 85/140 for OMRON TM robot	A 2-finger adaptive gripper that can adapt to parts of various shapes and sizes. Comes in two stroke options – 85mm and 140mm.	Each kit includes: - End effector coupling kit - 10-meter communication cable - RS485 to RS232 converter - RS485 to USB converter - Screw kit - Quick start guide	85 kit: AGC-OMRON-KIT-85
				140 kit: AGC-OMRON-KIT-140
	Robotiq Hand-E gripper for OMRON TM robot	A 2-finger parallel gripper with an IP67 rating. 50mm stroke.	Each kit includes: - Fingertip starting kit - End effector coupling kit - 10-meter communication cable - RS485 to RS232 converter - RS485 to USB converter - Screw kit - Quick start guide	HND-OMRON-KIT
	Robotiq EPick for Omron TM robot	A vacuum gripper that uses an integrated vacuum generator. Each kit includes: -Basic gripper unit -End effector coupling kit -10-meter communicable cable -RS485 to RS232 converter -RS485 to USB converter -Quick start guide -Vacuum cup(s): 1.5 bellows, 55mm diameter	1 vacuum cup	VAC-OMRON-EPICK-KIT1
			A suction system for 2 cups	VAC-OMRON-EPICK-KIT2
			A suction system for 4 cups	VAC-OMRON-EPICK-KIT4

Appearance	Product Name	Description	Remarks	Part Number
	Robotiq AirPick for Omron TM robot	A vacuum gripper that uses an external pneumatic supply. Each kit includes: -Basic gripper unit -Tubing 8mm-8m -End effector coupling kit -RS485 to RS232 converter -RS485 to USB converter -Quick start guide -Vacuum cup(s): 1.5 bellows, 55mm diameter	1 vacuum cup	VAC-OMRON-AIRPICK-KIT1
			A suction system for 2 cups	VAC-OMRON-AIRPICK-KIT2
			A suction system for 4 cups	VA-OMRON-AIRPICK-KIT4
	Robotiq I/O Coupling	Component that connects the Robotiq adaptive/vacuum gripper to the wrist of the OMRON TM robot to eliminate the need for an external serial communication cable.	Each kit includes: - I/O Coupling - Screw kit - Micro-USB to USB cable	IO-CPL-OMRON-KIT
	Robotiq Dual-Grip Adapter Plate	Adapter plate and mounting screws to mount two grippers onto the OMRON TM robot.		AGC-APL-159-002
	Robotiq 2F-85 Dual kit for OMRON Robots	Kit that enables dual gripper setting.	Each kit includes: - Chosen gripper x 2 - Mechanical coupling x 2 - USB to RS485 Adapter - Communication Cable - M12 5 Pins Splitter - Dual-Grip Adapter Plate - Screw kit x 2	OMRON-DUAL-AGC-85
	Robotiq 2F-140 Dual kit for OMRON Robots			OMRON-DUAL-AGC-140
	Robotiq HAND-E Dual kit for OMRON Robots			OMRON-DUAL-HND
	Robotiq Force sensor FTS-300	Six-axis force/torque sensor with RS485 Serial Communication.	Each kit includes: - Coupling - RS485 to RS232 converter - Power and communication cable	FTS-300-OMRON-KIT
	Basler GigE Camera	External camera for eye-to-hand robot applications. Maximum 2 external cameras per robot.	Monochrome, 640 x 480, 120 fps, CCD (1/4-inch equivalent) 24114-100	
			Monochrome, 1600 x 1200, 60 fps, CMOS (1/1.8-inch equivalent) 24114-250	
			Monochrome, 2048 x 2048, 25 fps, CMOS (1-inch equivalent)	24114-300
	NexCobot	A handheld operating teach pendant and well-integrated with OMRON TM Robot. Features an ergonomic housing with safety	TP Package-Plug&Play for OM	RT6-A000020

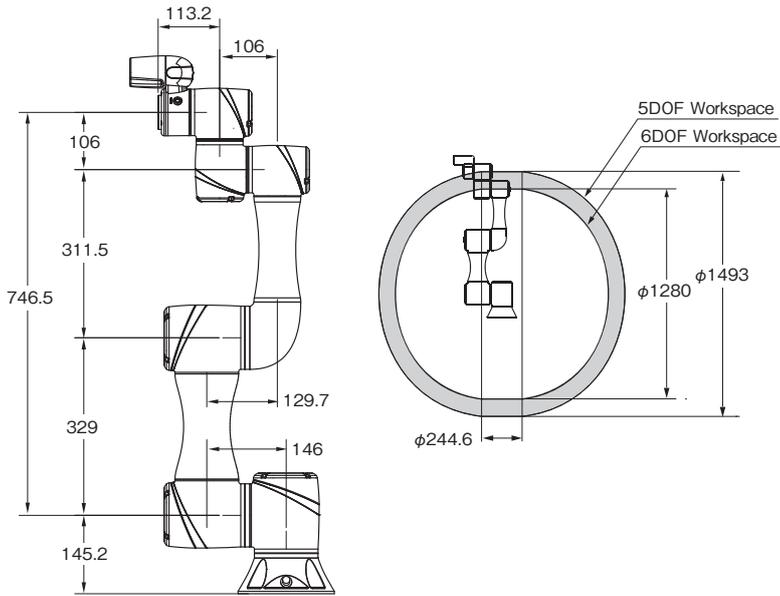
Software

Product Name	Add-On Product Names	Remarks	Part Number
TM Flow	N/A	Software required to control the cobot. Free download	N/A
Super Software Dongle	USB dongles with below software licenses		RT6-A000026
	TM Identify & Measure	License, add-on to TMflow. Includes: identification of pose variation, specific color area size, subtract reference image, line/circle burr, counting and gauge.	
	TM External Vision	License, add-on to TMflow. Required when using eye-to-hand cameras.	
	TM OCR	License, add-on to TMflow. Includes: Text OCR and Number OCR.	
	TMflow Editor	License, provides a convenient way to open and edit projects online.	
	TMflow Editor - AOI	License, add-on to TMflow Editor. Enables TMflow Editor to offline edit a TMflow project that includes AOI version.	

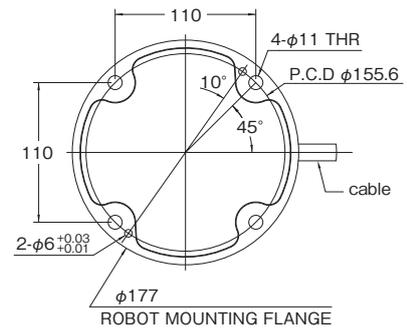
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(Unit: mm)

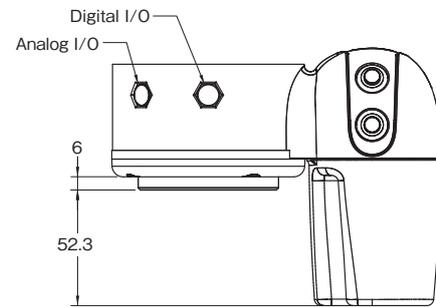
TM5-700



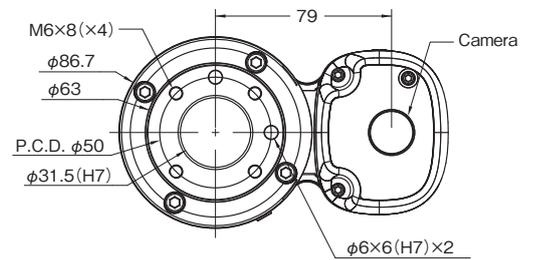
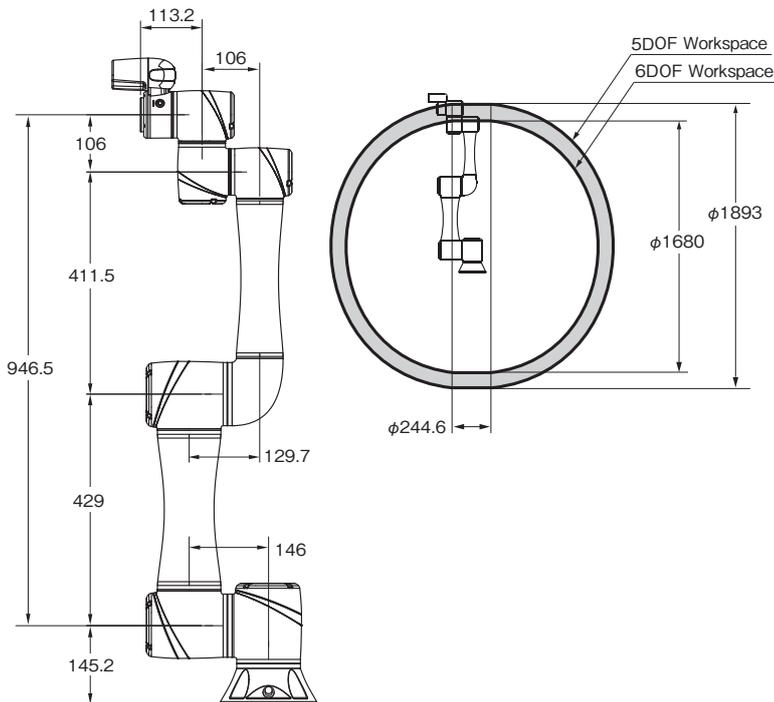
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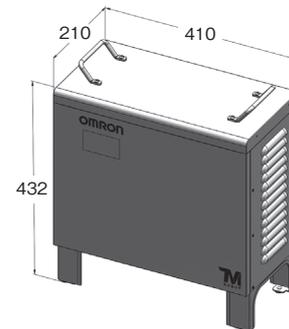
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TM5-900



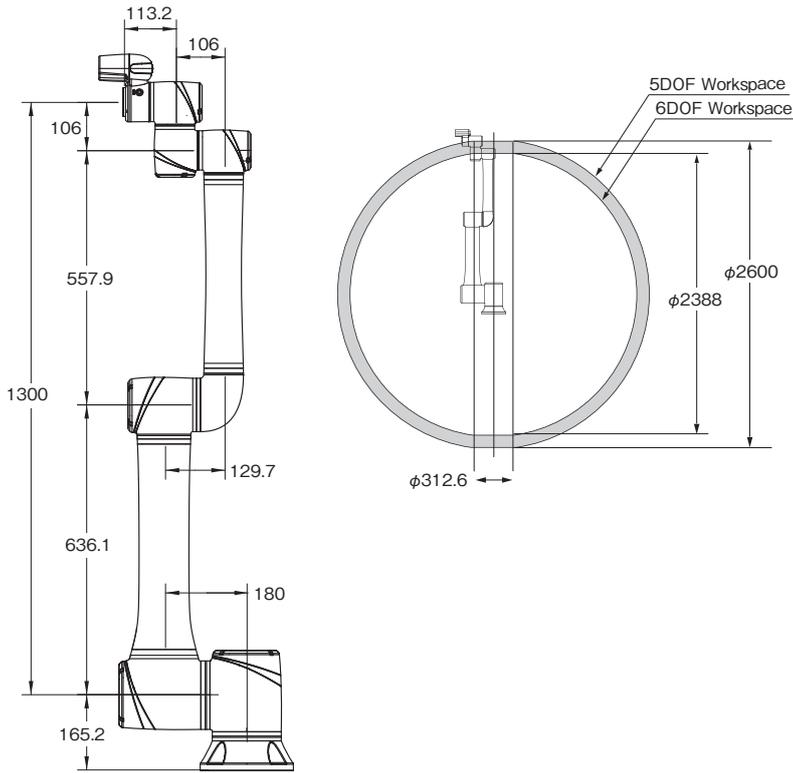
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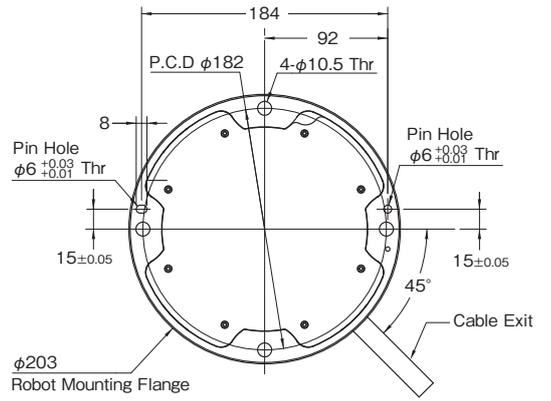
Dimensions

(Unit: mm)

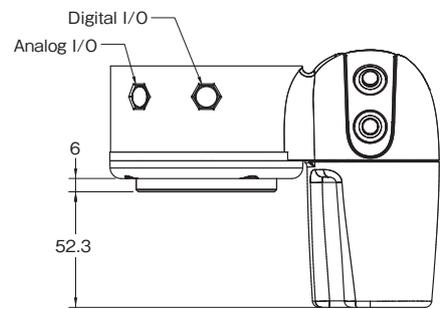
TM12



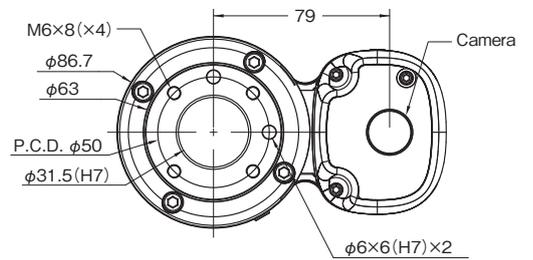
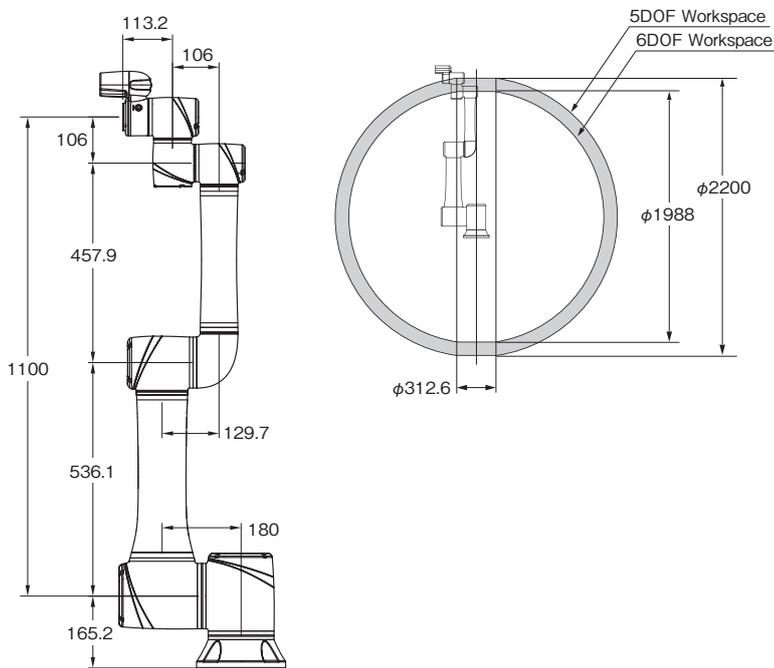
Footprint



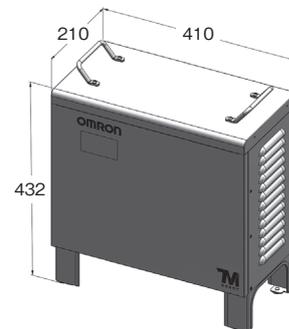
Flange



TM14



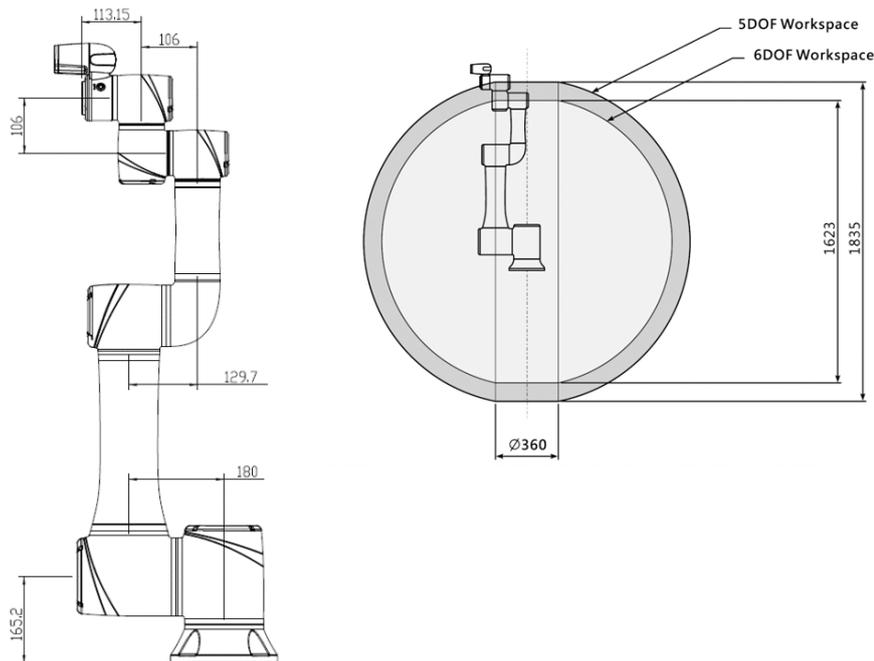
Control Box



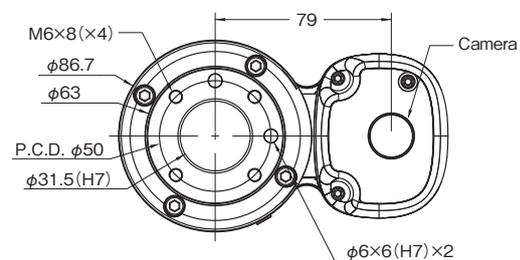
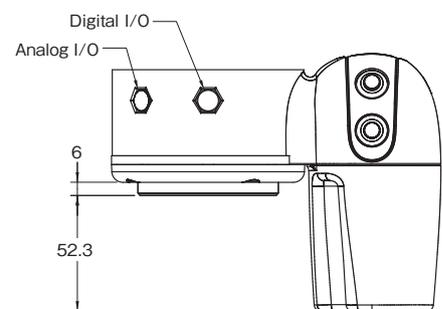
Dimensions

(Unit: mm)

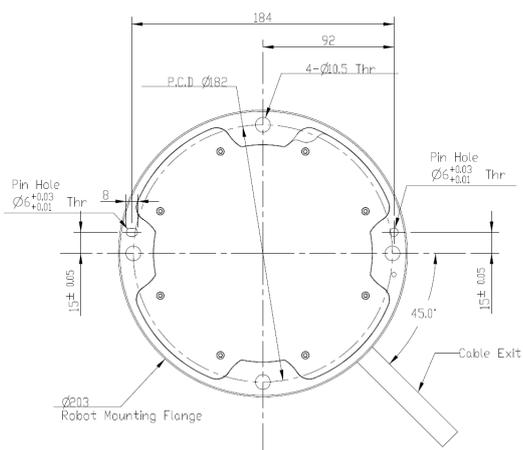
TM16



Flange

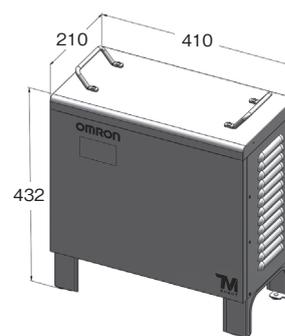


Footprinting



BOTTOM VIEW OF ROBOT BASE

Control Box

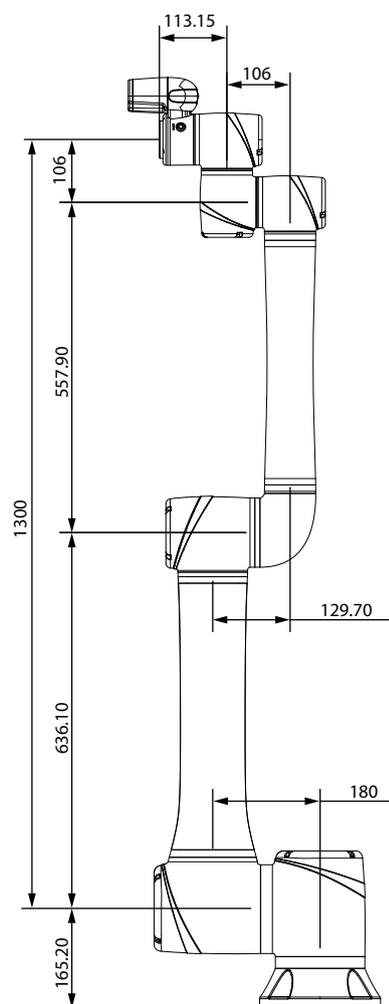


Dimensions

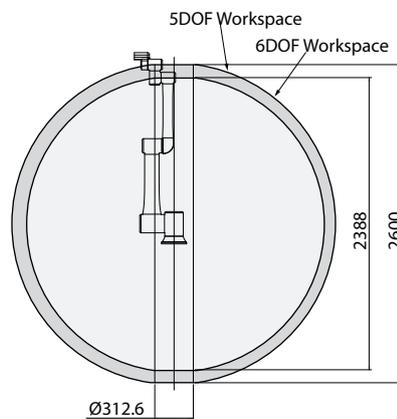
(Unit: mm)

TM20

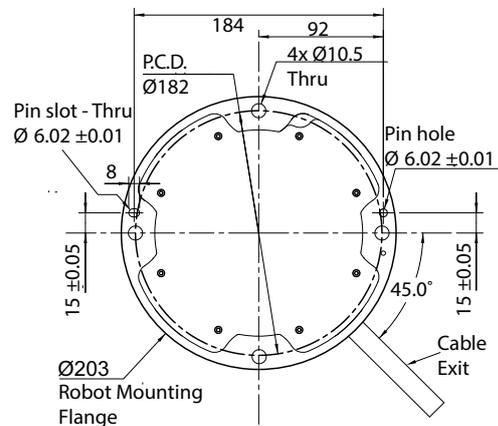
TM 20



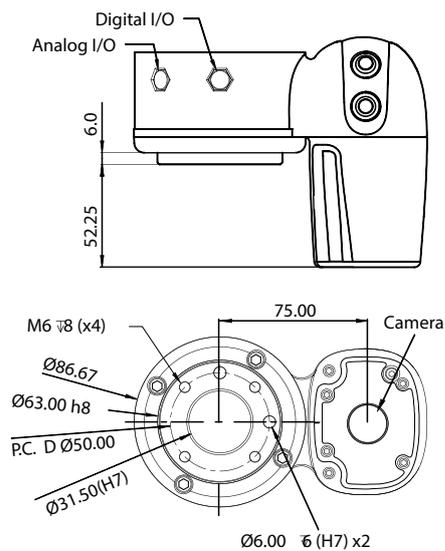
Workspace Side View



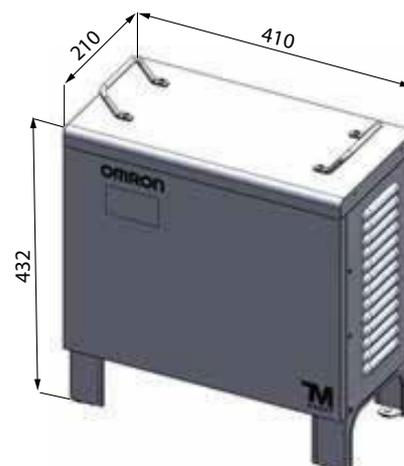
Footprint



Flange



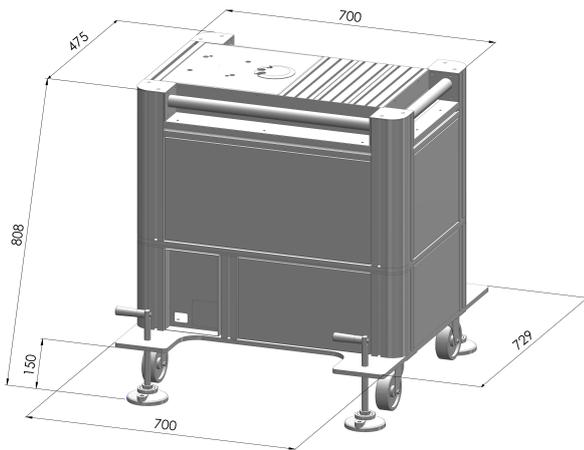
Control Box



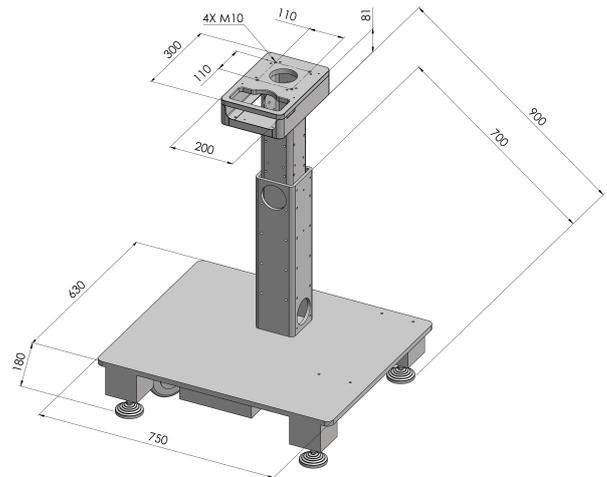
Accessories Dimensions

(Unit: mm)

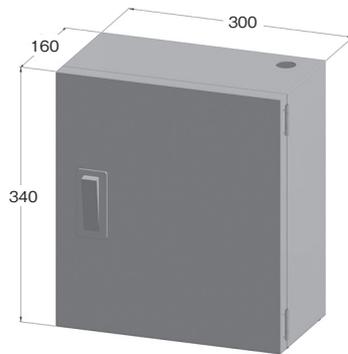
Mobile Work Station (MWS)



Robot Stand



Pneumatic Control Box



Related Manuals

Manual No.	English Title
I623	TM5 Regular Payload Series Hardware Installation Manual
I624	TM12 & TM14 Medium & Heavy Payload Series Hardware Installation Manual
I626	Software Manual TMflow
I627	Software Manual TMvision
I628	TM Mobile Work Station Manual
I629	TM Robot Stand Manual
I630	Pneumatic Control Box Manual
I648	Safety Manual Safety System 3.2
I848	Expression Editor and Listen Node Reference Guide

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