

# OMRON Collaborative Robot

# TM S Series

## S Series Collaborative Robot (Cobot) HW 5.03 for assembly, palletizing, inspection, logistics and other applications

- Designed to promote a safe and harmonious workplace between humans and machines.
- 33 safety functions, all ISO 13849-1, Cat.3, PLd, certified
- Full ISO 10218-1 compliance
- Easy-to-use graphical programming environment for quick startup and operation.
- Built-in, vision-based, robot control enables visual servoing, inspection, and measurement operations.
- Optional camera and Landmark allows for truly flexible, fast changeover.
- Capability to integrate with mobile robots enables fully-autonomous machine tending and logistics handling applications.
- TM S Series robot arms are finished with an ESD-compliant coating.



## Ordering Information

RT6 -

1 2 3 4 5 6

No.	Item	Specifications	Model	Designation
1	Payload (kg max.)	5	TM5S	0
		6	TM6S	9
		7	TM7S	6
		12	TM12S	1
		14	TM14S	2
		20	TM20S	4
		25	TM25S	7
		30	TM30S	8
2	Power Source	AC		0
		DC *1		1
3	Vision	With Integrated Camera		0
		Without Integrated Camera		1
4	Reach/Arm Length (mm) *2	900	TM5S	90
		1800	TM6S	18
		700	TM7S	70
		1300	TM12S	13
		1100	TM14S	11
		1300	TM20S	13
		1902	TM25S	19
		1702	TM30S	17
5	Option	Standard		0
		SEMI S2 *3		1
		Fieldbus		2
		SEMI S2 *3, Fieldbus		5
6	Cable Length (m)	Standard Length (1.5 m for DC unit / 3.0 m for AC unit)		4
		Extended Length (3.0 m for DC unit / 12 m for AC unit)		5

**Note:** Not all combinations are possible. Please refer to the Ordering Information tables for available combinations.

\*1. DC-powered cobots are capable of mobile operation when paired with an Autonomous Mobile Robot.

\*2. The payload and arm length are determined by model.

\*3. Semiconductor Equipment and Materials International (SEMI), is the central, global network of micro and nanoelectronics manufacturers that issues safety guidelines. SEMI S2 is the most well-known SEMI standard for Environmental, Health, and Safety (EHS).

# TM S Series

## Ordering Information

### TM5S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM5S	5	900	Yes	No	No	No	No	RT6-0009004	
TM5S, 12 m cable				Yes				RT6-0009005	
TM5S-X			No	No	Yes	Yes		RT6-0019004	
TM5S-X, 12 m cable				Yes				RT6-0019005	
TM5S-M			Yes	No	Yes	Yes		RT6-0109004	
TM5S-M, 3 m cable				Yes				RT6-0109005	
TM5S-M SEMI				No				RT6-0109014	
TM5S-MX			No	No	Yes	No	Yes	RT6-0119004	
TM5S-MX, 3 m cable				Yes				RT6-0119005	
TM5S, Fieldbus			Yes	No	No	No	Yes	RT6-0009024	
TM5S, 12 m cable, Fieldbus				Yes				RT6-0009025	
TM5S-X, Fieldbus			No	No	Yes	Yes		RT6-0019024	
TM5S-X, 12 m cable, Fieldbus				Yes				RT6-0019025	
TM5S-M, Fieldbus			Yes	No	Yes	Yes		RT6-0109024	
TM5S-M, 3 m cable, Fieldbus				Yes				RT6-0109025	
TM5S-M SEMI, Fieldbus				No				RT6-0109054	
TM5S-MX, Fieldbus			No	No	Yes	No		RT6-0119024	
TM5S-MX, 3 m cable, Fieldbus				Yes				RT6-0119025	

### TM6S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM6S	6	1800	Yes	No	No	No	No	RT6-9001804	
TM6S, 12 m cable				Yes				RT6-9001805	
TM6S-X			No	No	Yes	Yes		RT6-9011804	
TM6S-X, 12 m cable				Yes				RT6-9011805	
TM6S-M			Yes	No	Yes	Yes		RT6-9101804	
TM6S-M, 3 m cable				Yes				RT6-9101805	
TM6S-MX			No	No	Yes	Yes		RT6-9111804	
TM6S-MX, 3 m cable				Yes				RT6-9111805	
TM6S, Fieldbus			Yes	No	No	No	Yes	RT6-9001824	
TM6S, 12 m cable, Fieldbus				Yes				RT6-9001825	
TM6S-X, Fieldbus			No	No	Yes	Yes		RT6-9011824	
TM6S-X, 12 m cable, Fieldbus				Yes				RT6-9011825	
TM6S-M, Fieldbus			Yes	No	Yes	Yes		RT6-9101824	
TM6S-M, 3 m cable, Fieldbus				Yes				RT6-9101825	
TM6S-MX, Fieldbus			No	No	Yes	Yes		RT6-9111824	
TM6S-MX, 3 m cable, Fieldbus				Yes				RT6-9111825	

## TM7S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM7S	7	700	Yes	No	No	No	No	RT6-6007004	
TM7S, 12 m cable				Yes				RT6-6007005	
TM7S-X			No	No	Yes	Yes		RT6-6017004	
TM7S-X, 12 m cable				Yes				RT6-6017005	
TM7S-M			Yes	No	Yes	Yes	No	RT6-6107004	
TM7S-M, 3 m cable				Yes				RT6-6107005	
TM7S-M SEMI				No				RT6-6107014	
TM7S-MX			No	No	Yes	No	Yes	RT6-6117004	
TM7S-MX, 3 m cable				Yes				RT6-6117005	
TM7S, Fieldbus			Yes	No	No	No	Yes	RT6-6007024	
TM7S, 12 m cable, Fieldbus				Yes				RT6-6007025	
TM7S-X, Fieldbus			No	No	Yes	Yes		RT6-6017024	
TM7S-X, 12 m cable, Fieldbus				Yes				RT6-6017025	
TM7S-M, Fieldbus			Yes	No	Yes	Yes	No	RT6-6107024	
TM7S-M, 3 m cable, Fieldbus				Yes				RT6-6107025	
TM7S-M SEMI, Fieldbus				No				RT6-6107054	
TM7S-MX, Fieldbus			No	No	Yes	No	Yes	RT6-6117024	
TM7S-MX, 3 m cable, Fieldbus				Yes				RT6-6117025	

## TM12S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM12S	12	1300	Yes	No	No	No	No	RT6-1001304	
TM12S, 12 m cable				Yes				RT6-1001305	
TM12S-X			No	No	Yes	Yes		RT6-1011304	
TM12S-X, 12 m cable				Yes				RT6-1011305	
TM12S-M			Yes	No	Yes	Yes	Yes	RT6-1101304	
TM12S-M, 3 m cable				Yes				RT6-1101305	
TM12S-M SEMI				No				RT6-1101314	
TM12S-MX			No	No	Yes	No	Yes	RT6-1111304	
TM12S-MX, 3 m cable				Yes				RT6-1111305	
TM12S, Fieldbus			Yes	No	No	No	Yes	RT6-1001324	
TM12S, 12 m cable, Fieldbus				Yes				RT6-1001325	
TM12S-X, Fieldbus			No	No	Yes	Yes		RT6-1011324	
TM12S-X, 12 m cable, Fieldbus				Yes				RT6-1011325	
TM12S-M, Fieldbus			Yes	No	Yes	Yes	Yes	RT6-1101324	
TM12S-M, 3 m cable, Fieldbus				Yes				RT6-1101325	
TM12S-M SEMI, Fieldbus				No				RT6-1101354	
TM12S-MX, Fieldbus			No	No	Yes	No	Yes	RT6-1111324	
TM12S-MX, 3 m cable, Fieldbus				Yes				RT6-1111325	

# TM S Series

## TM14S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM14S	14	1100	Yes	No	No	No	No	RT6-2001104	
TM14S, 12 m cable				Yes				RT6-2001105	
TM14S-X			No	No	Yes	Yes		RT6-2011104	
TM14S-X, 12 m cable				Yes				RT6-2011105	
TM14S-M			Yes	No	Yes	Yes		RT6-2101104	
TM14S-M, 3 m cable				Yes				RT6-2101105	
TM14S-M SEMI			No	No	Yes	No		RT6-2101114	
TM14S-MX				Yes				RT6-2111104	
TM14S-MX, 3 m cable			Yes	No	Yes	No		RT6-2111105	
TM14S, Fieldbus				Yes				RT6-2001124	
TM14S, 12 m cable, Fieldbus			No	No	No	No	Yes	RT6-2001125	
TM14S-X, Fieldbus				Yes				RT6-2011124	
TM14S-X, 12 m cable, Fieldbus			Yes	No	Yes	Yes		RT6-2011125	
TM14S-M, Fieldbus				Yes				RT6-2101124	
TM14S-M, 3 m cable, Fieldbus			No	No	Yes	Yes		RT6-2101125	
TM14S-M SEMI, Fieldbus				Yes				RT6-2101154	
TM14S-MX, Fieldbus			No	No	Yes	No		RT6-2111124	
TM14S-MX, 3 m cable, Fieldbus				Yes				RT6-2111125	

## TM20S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM20S	20	1300	Yes	No	No	No	No	RT6-4001304	
TM20S, 12 m cable				Yes				RT6-4001305	
TM20S-X			No	No	No	No		RT6-4011304	
TM20S-X, 12 m cable				Yes				RT6-4011305	
TM20S, Fieldbus			Yes	No	Yes	Yes	Yes	RT6-4001324	
TM20S, 12 m cable, Fieldbus				Yes				RT6-4001325	
TM20S-X, Fieldbus			No	No	Yes	Yes		RT6-4011324	
TM20S-X, 12 m cable, Fieldbus				Yes				RT6-4011325	

## TM25S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code	
TM25S	25	1902	Yes	No	No	No	No	RT6-7001904	
TM25S, 12 m cable				Yes				RT6-7001905	
TM25S-X			No	No	Yes	Yes		RT6-7011904	
TM25S-X, 12 m cable				Yes				RT6-7011905	
TM25S-M			Yes	No	Yes	Yes	No	RT6-7101904	
TM25S-M, 3 m cable				Yes				RT6-7101905	
TM25S-MX			No	No	Yes	Yes		RT6-7111905	
TM25S-MX, 3 m cable				Yes				RT6-7001904	
TM25S, Fieldbus			Yes	No	No	No	Yes	RT6-7001924	
TM25S, 12 m cable, Fieldbus				Yes				RT6-7001925	
TM25S-X, Fieldbus			No	No	Yes	Yes		RT6-7011924	
TM25S-X, 12 m cable, Fieldbus				Yes				RT6-7011925	
TM25S-M, Fieldbus			Yes	No	Yes	Yes		RT6-7101924	
TM25S-M, 3 m cable, Fieldbus				Yes				RT6-7101925	
TM25S-MX, Fieldbus			No	No	Yes	Yes		RT6-7111925	
TM25S-MX, 3 m cable, Fieldbus				Yes				RT6-7001924	

## TM30S Units

Product Model	Maximum Payload (kg)	Reach (mm)	Integrated Camera	Extended Cable	DC Power Source	SEMI S2 Certified	Fieldbus	Ordering Code		
TM30S	30	1702	Yes	No	No	No	No	RT6-8001704		
TM30S, 12 m cable				Yes				RT6-8001705		
TM30S-X			No	No	Yes			RT6-8011704		
TM30S-X, 12 m cable				Yes				RT6-8011705		
TM30S-M			Yes	No	Yes		Yes	RT6-8101704		
TM30S-M, 3 m cable				Yes				RT6-8101705		
TM30S-MX			No	No	Yes			RT6-8111705		
TM30S-MX, 3 m cable				Yes				RT6-8001704		
TM30S, Fieldbus			Yes	No	No		No	RT6-8001724		
TM30S, 12 m cable, Fieldbus				Yes				RT6-8001725		
TM30S-X, Fieldbus			No	No	Yes			RT6-8011724		
TM30S-X, 12 m cable, Fieldbus				Yes				RT6-8011725		
TM30S-M, Fieldbus			Yes	No	Yes		Yes	RT6-8101724		
TM30S-M, 3 m cable, Fieldbus				Yes				RT6-8101725		
TM30S-MX, Fieldbus			No	No	Yes			RT6-8111725		
TM30S-MX, 3 m cable, Fieldbus				Yes				RT6-8001724		

## Items Included with a System

Control Box Cable	1.5, 3, and 12 m options		
Robot Stick	Hand control to manually position and teach cobot		
Control Box	Robot Control Box		
Calibration Plate	Plate for calibrating cobot integrated camera. Not included with S-X model cobots		
I/O Cable	1 m 8-pin digital I/O cable		
Landmark	Two robot positioning tools. Not included with S-X model cobots		
Ground Wire	Two 2 m wires		
Jumper Wire	Two 3 cm wires		
Power Cord	(TM5S, TM6S, TM7S, TM12S, TM14S, TM20S) Three 1.8 m Control Box power cords, types B, G, and F	(TM25S and TM30S) Control Box power cord. 1 cable, 5 m	
SEMI Switch	Emergency OFF switch (SEMI cobots)		
SEMI ESTOP Cable	3 m Emergency OFF cable (SEMI cobots)		
External Brake Release Cable	3 m cable for external brake release (TM25S and TM30S only)		
Joint 6 Force/Torque Sensor	Force/Torque sensor for force control applications and improved load manipulation (TM25S and TM30S only)		

# TM S Series

## Accessories and Optional Items

Appearance	Product Name	Description	Remarks	Ordering Code
	Landmark 2.0	Robot positioning tool as a reference to the environment.	Two included with purchase of a cobot. Not included with S-X model cobots.	RT6-A000028
	Mobile Workstation (MWS)	MWS is a convenient tool for users to mount the cobot arm on work surface, and safely store the control box. Users can easily move the MWS with the cobot to different work cells.	Compatible with OMRON TM5S, TM7S, TM5-700, and TM5-900.	RT6-A000010
	Robot stand	Similar to MWS, the robot stand can be easily moved with the cobot to different work stations.	Compatible with OMRON TM5S, TM7S, TM5-700, and TM5-900.	RT6-A000009
	SSD with cable	128 GB solid-state disk	SATA cable included. Recommended for external cameras image logging.	RT6-A000012
	Kit, calibration set with additional pin	The 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
	Polarizer Light Module, S-Series	Improves the reflection caused by the cobot's own light source on the surface of highly-reflective objects.	For S-series cobots only.	RT6-A000025
	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.	19937-214F
	TM Screen (Teaching Pendant) with Pen	The TM Screen devices can be combined with the Robot Stick design to become a teaching pendant, and operate the cobot from the touch screen environment.	The TM Screen is only compatible with S-Series units. No additional wiring is needed.	RT6-A000024
	TM5S/TM7S Metal Joint Cover Sets	6-piece-set of black metal joint covers without logo. Designed for harsh working environments.	Only available for TM5S and TM7S units.	RT6-A000027

## Software

Product Name	Add-On Product Names	Remarks	Ordering Code
TMflow 2.X.X	N/A	Software required to control the cobot. Free download	N/A
Super Software Dongle	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.	RT6-A000026
	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.	
	PalletBoost 5 License	License, add-on to TMFlow 2.22 or above. Additional 5 kg payload license for TM25S and TM30S.	

## Specifications

Product	TM5S	TM6S	TM7S	TM12S	TM14S	TM20S	TM25S	TM30S				
<b>Robot Arm Weight, With Camera / Without Camera (kg)</b>	23.9 / 23.6	35.5 / 35.2	22.9 / 22.6	33.3 / 33.0	33 / 32.7	33.3 / 33.0	81.6 / 81.3	80.6 / 80.3				
<b>Control Box Weight, AC unit / DC unit (kg) *1</b>	13.5 / 8.9						17.5 / 11.7					
<b>Maximum Payload (kg)</b>	5	6	7	12	14	20	25	30				
<b>Reach (mm)</b>	900	1800	700	1300	1100	1300	1902	1702				
<b>Mounting</b>	Wall, Table, Ceiling											
<b>Joint Ranges</b>	J1, J2, J4, J5, J6	$\pm 360^\circ$										
	J3	$\pm 158^\circ$	$\pm 166^\circ$	$\pm 152^\circ$	$\pm 162^\circ$	$\pm 159^\circ$	$\pm 162^\circ$	$\pm 166^\circ$	$\pm 170^\circ$			
<b>Joint Speed</b>	J1	210°/s	130°/s	210°/s	130°/s		130°/s	100°/s				
	J2				95°/s		125°/s	130°/s				
	J3	210°/s		210°/s		160°/s		195°/s				
	J4	225°/s				190°/s		210°/s				
	J5					450°/s		225°/s				
<b>Average Speed (m/s) *2</b>		1.4	1.1		1.3	1.1		2.1				
<b>Repeatability (mm)</b>		$\pm 0.03$	$\pm 0.1$	$\pm 0.03$		$\pm 0.05$						
<b>Degrees of Freedom</b>		6 rotating joints										
<b>I/O Ports</b>	Control Box	Digital In: 16 / Digital Out: 16 Analog In: 2 / Analog Out: 2										
	Tool Conn.	Digital In: 3 / Digital Out: 3										
<b>I/O Power Supply</b>	Control Box	24 V 2.0 A										
	Tool Conn.	24 V 1.5 A										
<b>Ingress Protection</b>		IP65 for Robot Arm, IP54 for Control Box *3, Robot Stick and TM Screen										
<b>Cleanroom Class</b>		ISO Cleanroom Class 3										
<b>Operating Temperature and Humidity</b>		0 to 50°C, 85% max. (with no condensation)										
<b>Motor Power Supply</b>	AC Units	100 to 240 VAC, 50/60 Hz					200 to 240 VAC, 50/60 Hz					
	DC Units	24 to 60 VDC					48 to 60 VDC					
<b>I/O Interface</b>		2 COM, 1 HDMI, 3 LAN, 2 USB2.0, 4 USB3.0										
<b>Communication</b>		RS-232/RS-422/RS-485, Ethernet, Modbus TCP/RTU (MainDevice & SubDevice), EtherCAT (optional), PROFINET (optional), EtherNet/IP (optional)										
<b>Programming Environment</b>		TMFlow (flowchart-based), TMScript (script-based), TMCraft (developer-based)										
<b>Certifications</b>		TÜV-certified ISO 13849-1, ISO 10218-1, ISO/TS 15066, UL1740, CAN/CSA Z424-14 (R2019), SEMI S2 (optional)										
<b>Positioning Accuracy</b>		2D Positioning: 0.1 mm *4 (camera models only)										
<b>Robot Vision</b>	Eye in Hand (Built in)	1.2MP / 5MP, color camera (camera models only)										
	Eye to Hand (Optional)	Supports maximum of 2 GigE 2D cameras										
<b>Force x-y-z (TM25S/30S)</b>	Range	$\pm 300$ N										
	Precision	2% full scale										
	Accuracy	5.5% full scale										
<b>Torque x-y-z (TM25S/30S)</b>	Range	$\pm 30$ Nm										
	Precision	0.3% full scale										
	Accuracy	5% full scale										

- \*1. The weight indicated applies to robots with no option. The weight for the fieldbus option will be 0.02 kg heavier than that of the standard unit. The weight of the DC SEMI S2 option for the TM5S/6S/7S/12S/14S units is 9.9 kg.
- \*2. Average speed is determined for each robot by performing a large linear motion at full project speed and default acceleration with no payload.
- \*3. The AC Control Box has an IP54 rating. The DC Control Box is not IP rated.
- \*4. The data in this table are measured by TM laboratory and the working distance is 100 mm. It should be noted that in practical applications, the relevant values may be different due to factors such as the on-site ambient light source, object characteristics, and vision programming methods that will affect the change in accuracy.

## Version Information

The details in this document apply to products operating with the following hardware and software versions.

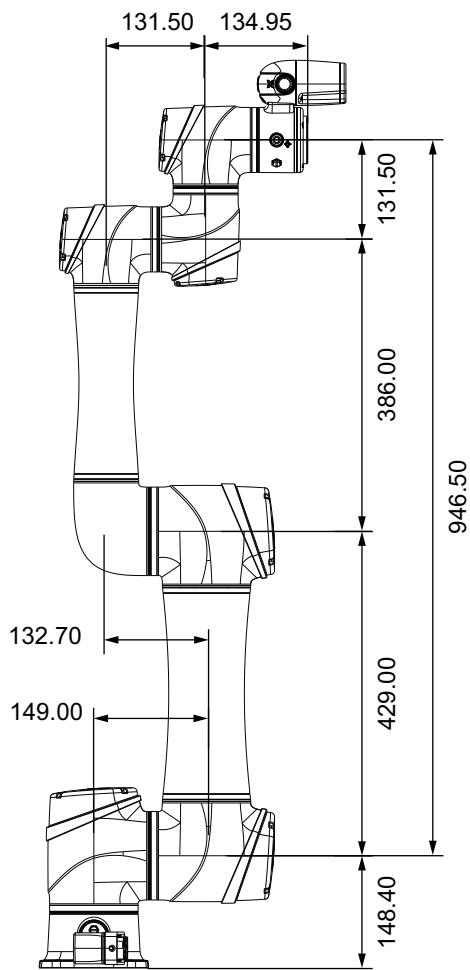
- Robot Hardware Version: 5.03
- TMFlow Version: 2.22

# TM S Series

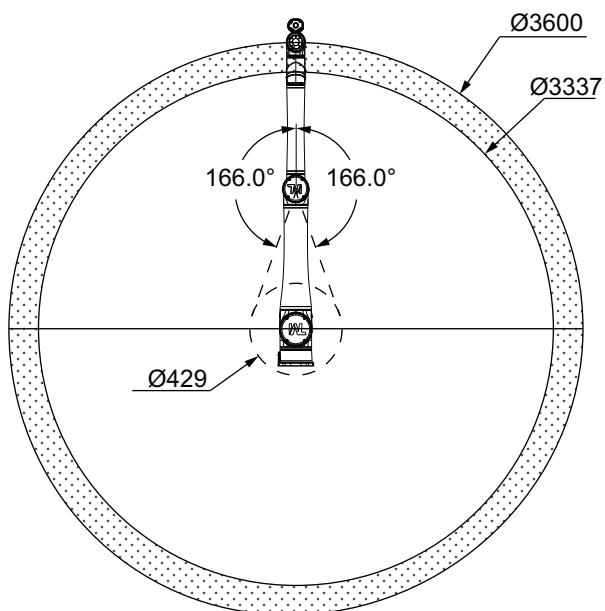
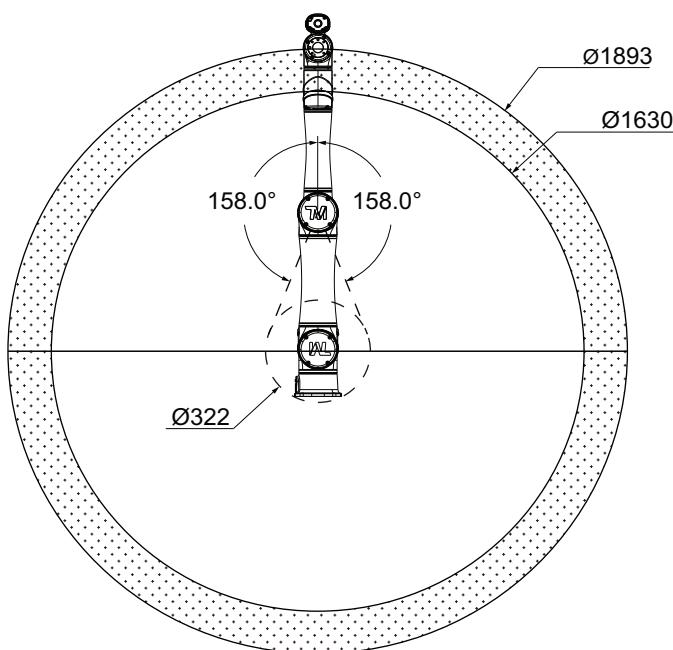
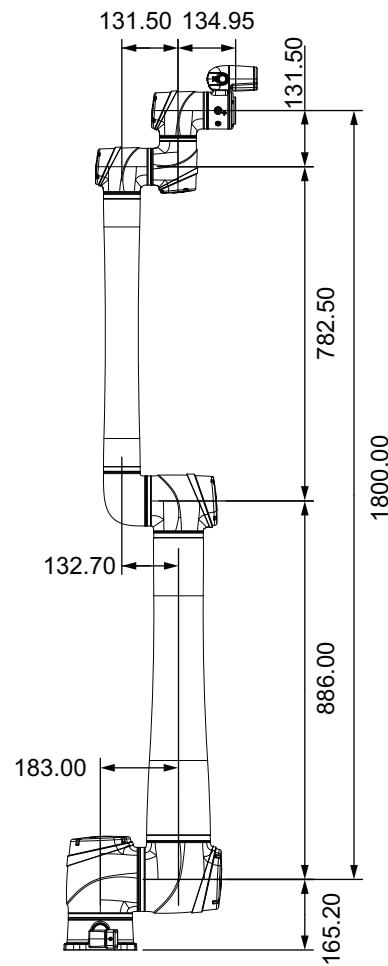
## Dimensions

(Units: mm)

### TM5S/TM5S-X \*/TM5S-M/TM5S-MX \*



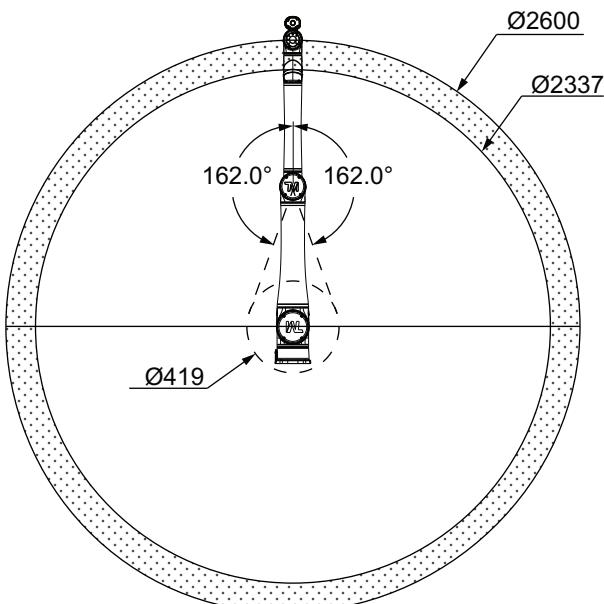
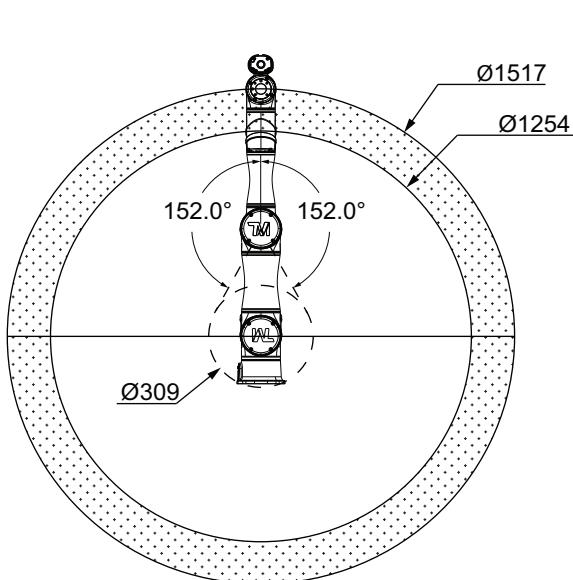
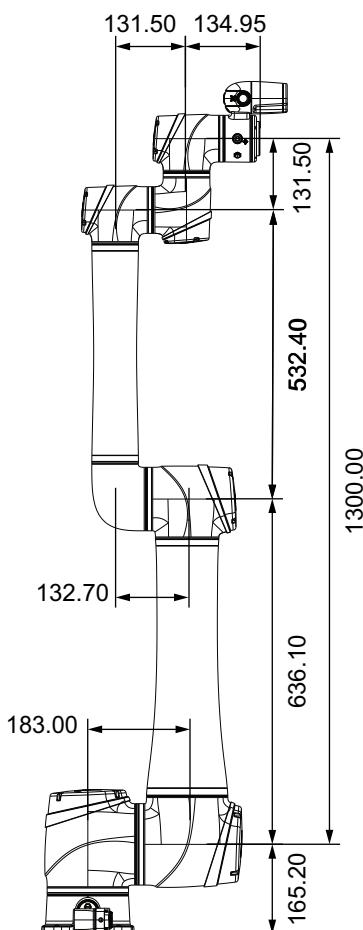
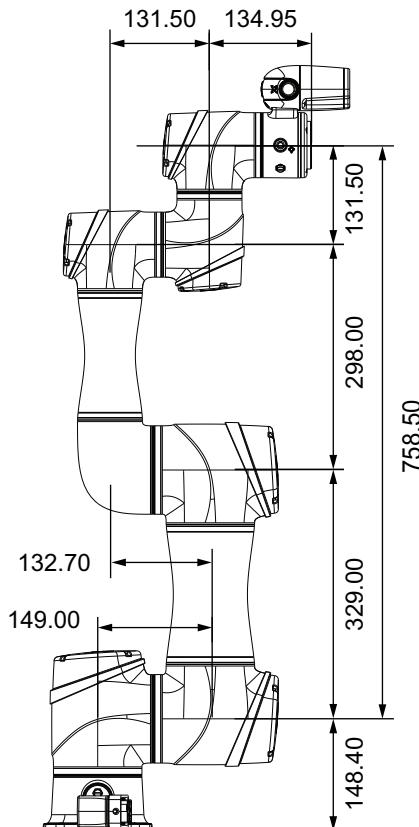
### TM6S/TM6S-X \*/TM6S-M/TM6S-MX \*



\* Dimensions do not include the camera. Refer to the Camera Dimensions on page 14 for more information.

TM7S/TM7S-X \*/TM7S-M/TM7S-MX \*

TM12S/TM12S-X \*/TM12S-M/TM12S-MX \*

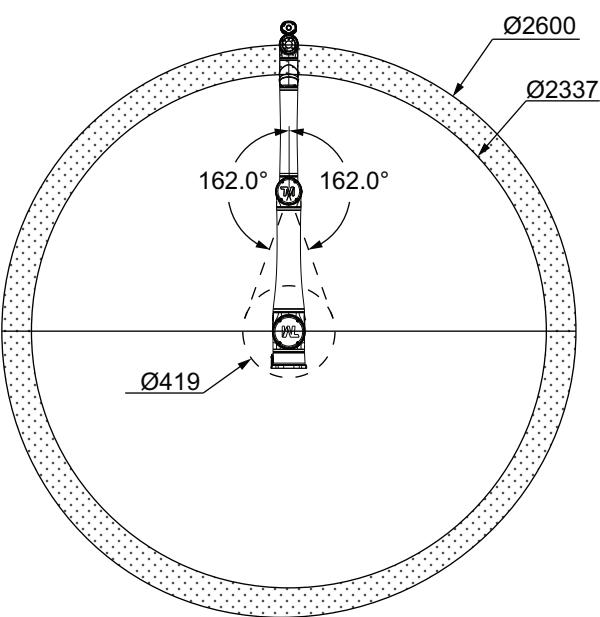
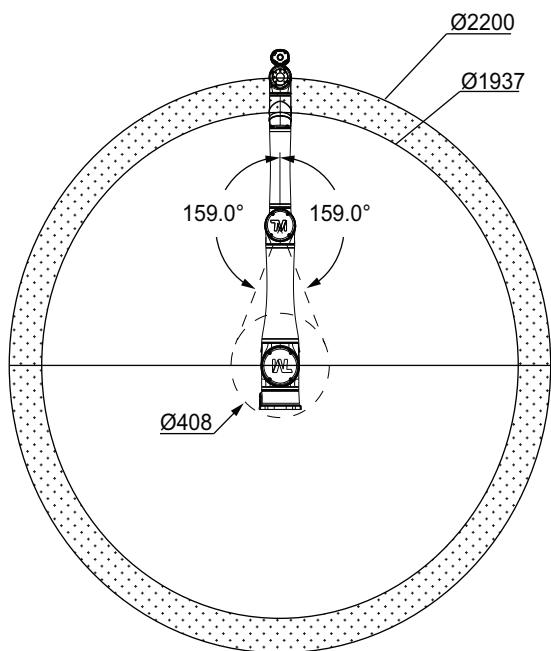
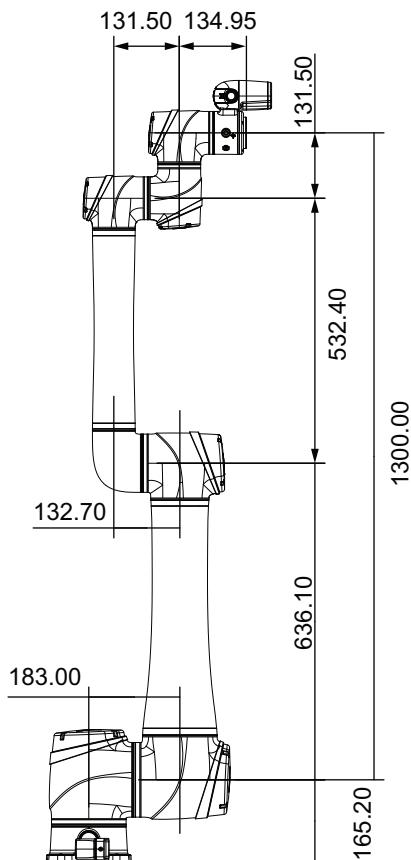
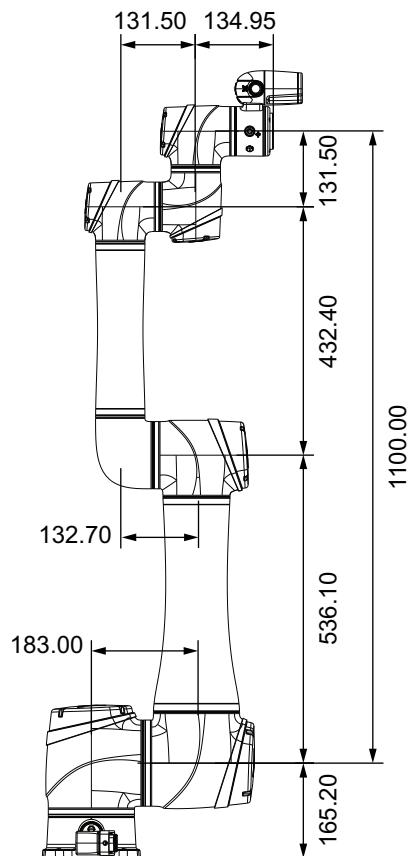


\* Dimensions do not include the camera. Refer to the *Camera Dimensions* on page 14 for more information.

# TM S Series

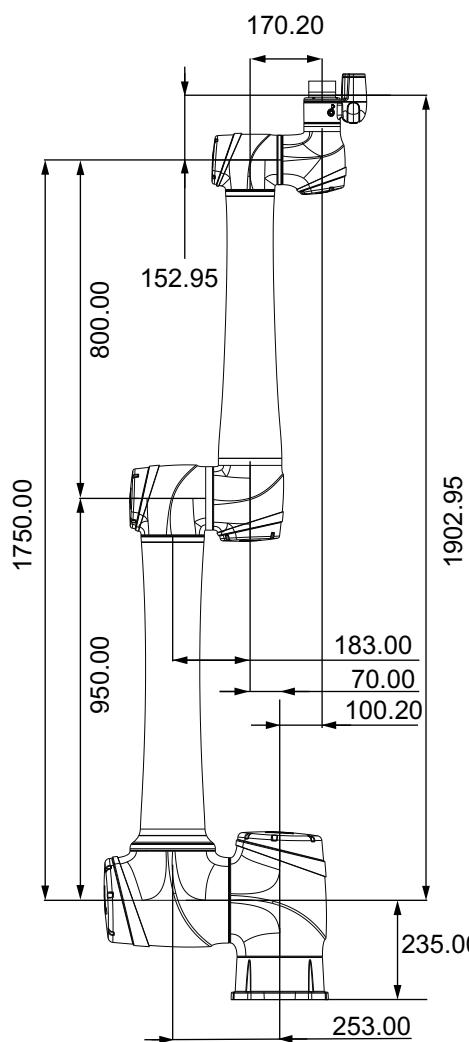
TM14S/TM14S-X \*/TM14S-M/TM14S-MX \*

TM20S/TM20S-X \*

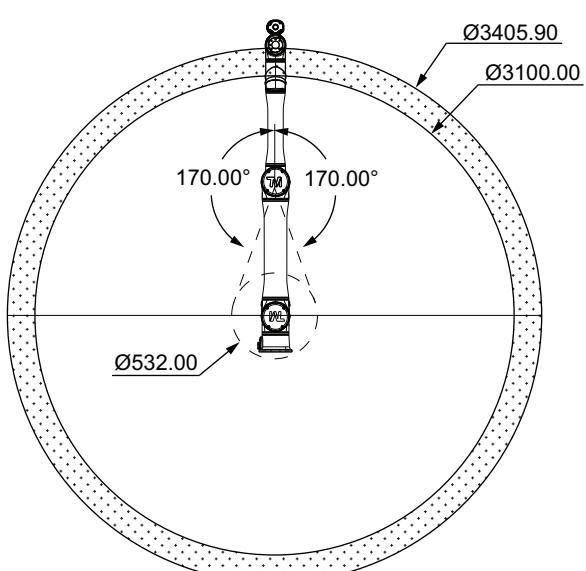
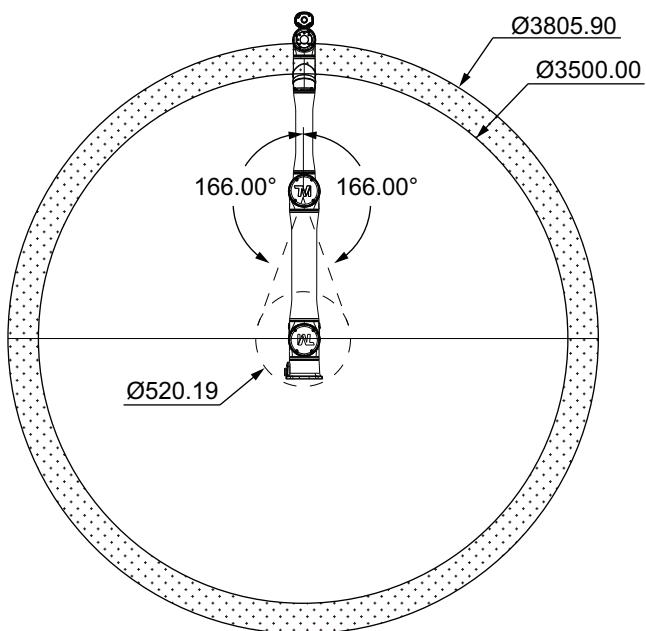
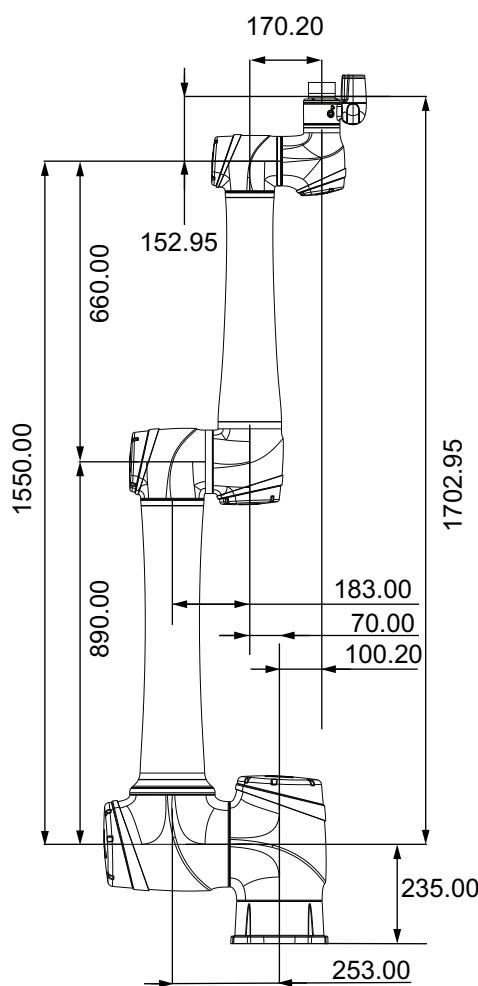


\* Dimensions do not include the camera. Refer to the *Camera Dimensions* on page 14 for more information.

## TM25S/TM25S-X \*/TM25S-M/TM25S-MX \*

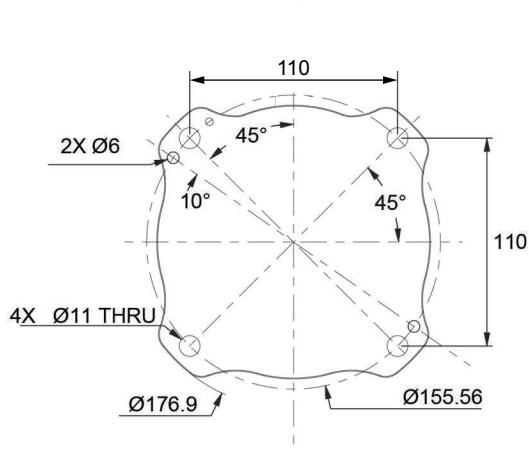


## TM30S/TM30S-X \*/TM30S-M/TM30S-MX \*

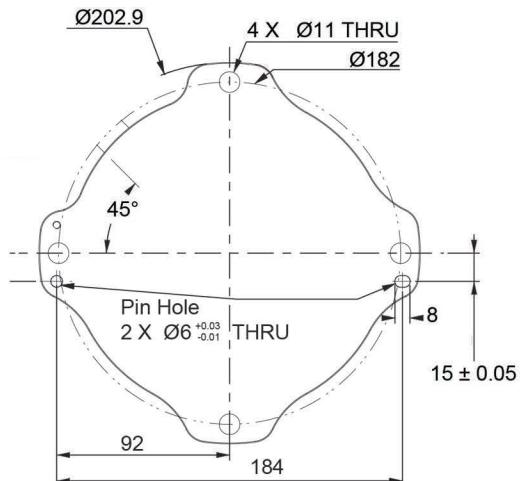


\* Dimensions do not include the camera. Refer to the *Camera Dimensions* on page 14 for more information.

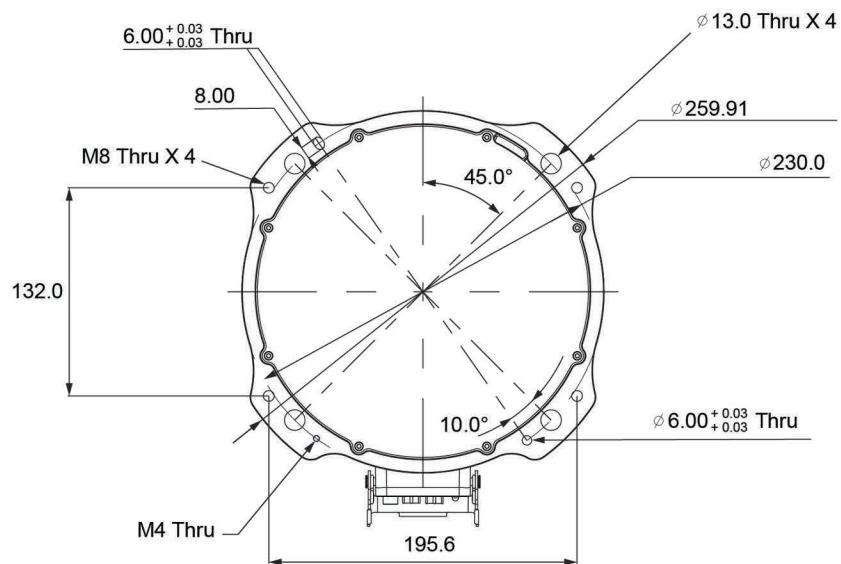
**Footprint (TM5S/7S Models)**



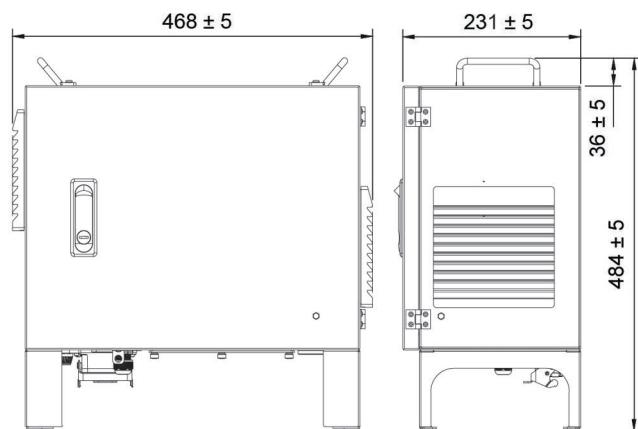
**Footprint (TM6S/12S/14S/20S Models)**



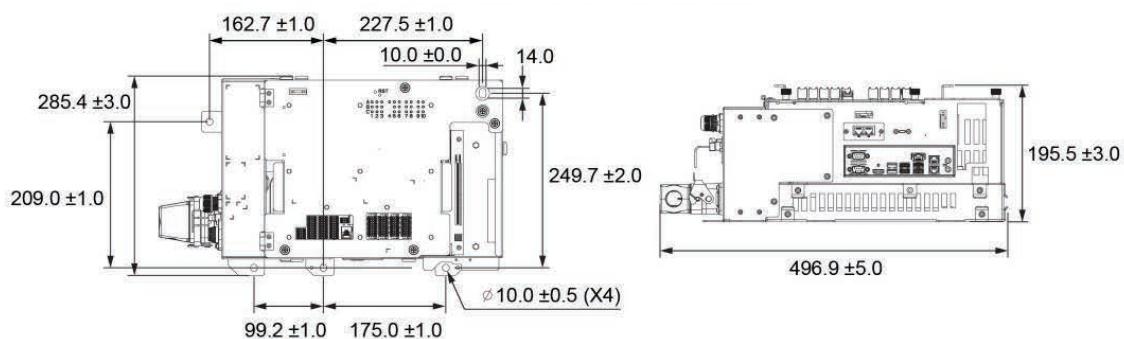
**Footprint (TM25S/30S Models)**



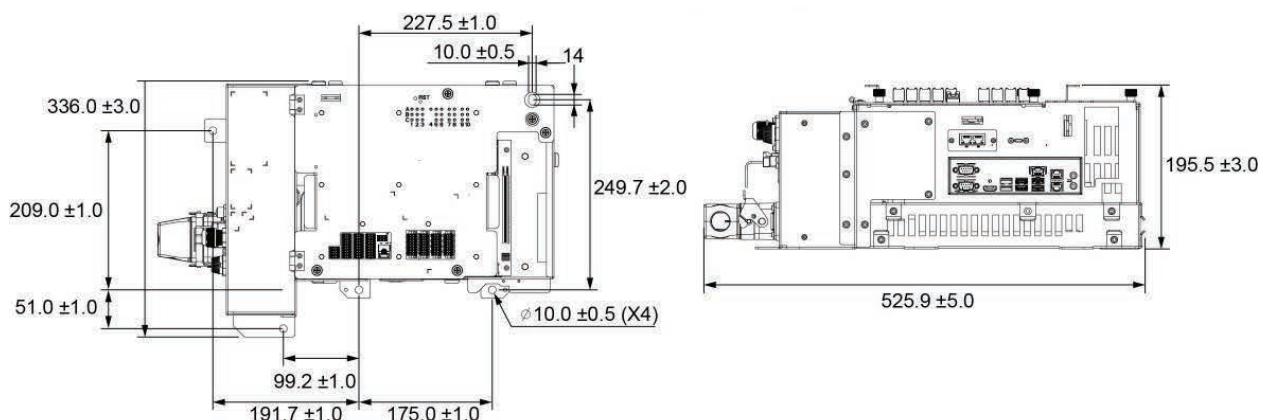
**TM5S/6S/7S/12S/14S/20S Control Box (AC)**



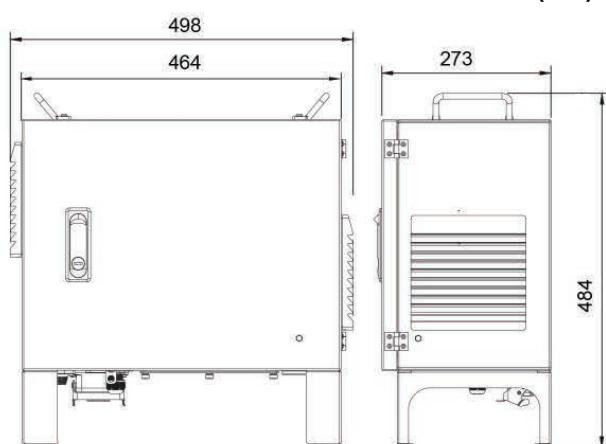
TM5S/6S/7S/12S/14S Control Box (DC)



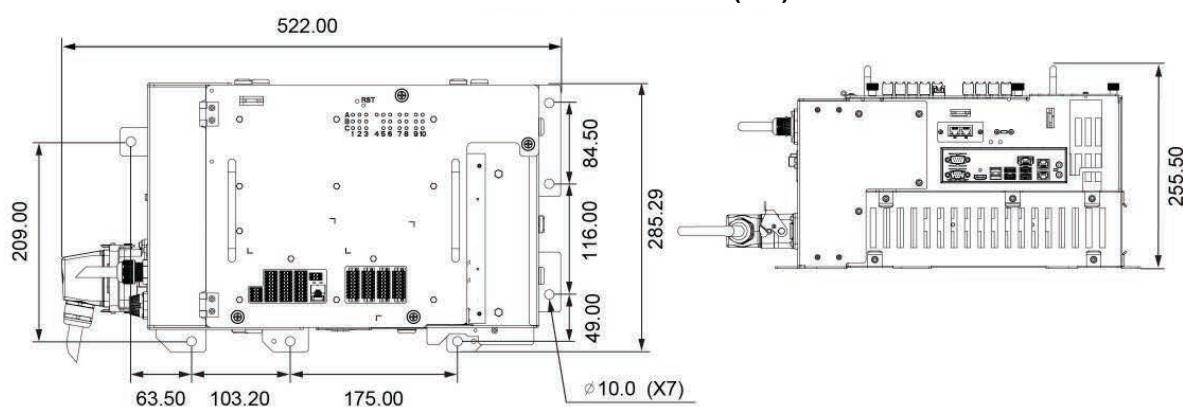
TM5S/7S/12S/14S Control Box (DC SEMI)



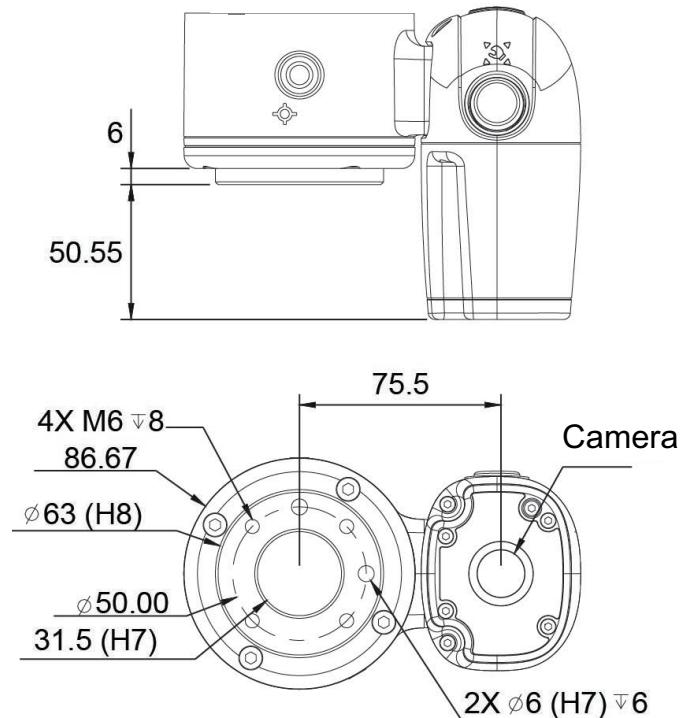
TM25S/30S Control Box (AC)



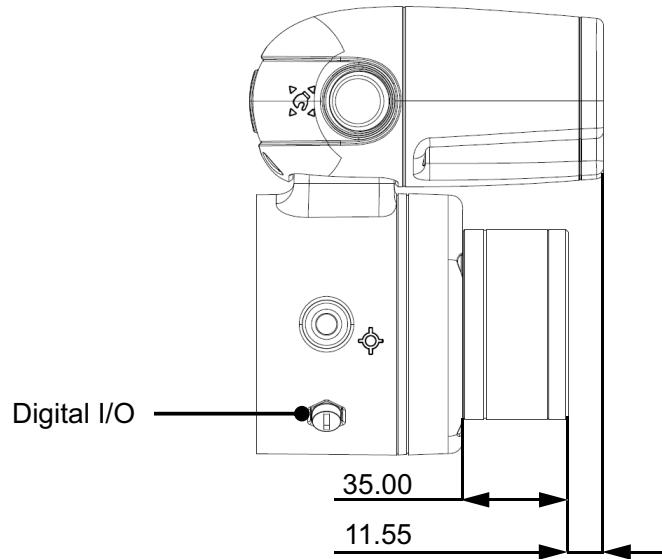
TM25S/30S Control Box (DC)



## Tool Flange



## Tool Flange with Integrated Force/Torque Sensor (TM25S/TM30S Models)



## Related Manuals

Catalog Number	Title
<b>M135</b>	Omron TM Collaborative Robot S Series: TM5S/TM6S/TM7S/TM12S/TM14S/TM20S Hardware Installation Manual
<b>M104</b>	Omron TM Collaborative Robot S Series: TM25S and TM30S Hardware Installation Manual
<b>I688</b>	Omron TM Collaborative Robot S Series: Safety Manual
<b>I689</b>	Omron TM Collaborative Robot: Software Manual TMFlow, Version 2
<b>I690</b>	Omron TM Collaborative Robot: TMVision Software Manual, Version 2
<b>I691</b>	Omron TM Collaborative Robot S Series: Touch Screen User's Manual
<b>I628</b>	Omron TM Collaborative Robot: Mobile Work Station User's Manual
<b>I629</b>	Omron TM Collaborative Robot: Robot Stand User's Manual
<b>I664</b>	Omron TM Collaborative Robot: TMScript Language Manual

## MEMO

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**OMRON Corporation Industrial Automation Company**

**Kyoto, JAPAN**

**Contact : [www.ia.omron.com](http://www.ia.omron.com)**

**Regional Headquarters**

**OMRON EUROPE B.V.**

Wegalaan 67-69, 2132 JD Hoofddorp  
The Netherlands  
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

**OMRON ASIA PACIFIC PTE. LTD.**

438B Alexandra Road, #08-01/02 Alexandra  
Technopark, Singapore 119968  
Tel: (65) 6835-3011 Fax: (65) 6835-3011

**OMRON ELECTRONICS LLC**

2895 Greenspoint Parkway, Suite 200  
Hoffman Estates, IL 60169 U.S.A.  
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

**OMRON ROBOTICS AND SAFETY TECHNOLOGIES, INC.**

4225 Hacienda Drive, Pleasanton, CA 94588 U.S.A.  
Tel: (1) 925-245-3400 Fax: (1) 925-960-0590

**OMRON (CHINA) CO., LTD.**

Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China  
Tel: (86) 21-6023-0333 Fax: (86) 21-5037-2388

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