Collaborative Robots $\mathbb{N}5$

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.



TM5-700

TM5-900

Specification

				т	M5					
Product Name		TM5-700	TM5M-700	TM5M-700 SEMI	TM5-900	TM5M-900	TM5M-900 SEM			
Weight (kg)			22.1			22.6				
Controller Weig	ght (kg)	13.5	14.5	14.5	13.5	14.5	14.5			
Max Payload (k	.g)		6			4				
Reach (mm)			700			900				
Mounting				Wall, Tab	le, Ceiling					
Typical Speed ((m/s)		1.1			1.4				
	Joint 1		±270°							
Joint Range	Joint 2, 4, 5			±1;	80°					
	Joint 3			±1:	55°					
	Joint 6		±270°							
Joint Speeds	Joint 1, 2, 3			180)°/s					
	Joint 4, 5, 6			225	ō°/s					
Repeatability (r	nm)			±0	.05					
IP			IP54 (robot arm), IP32 (control box), IP40 (robot stick)							
Cleanroom Clas	ss	ISO Class 5								
Food Grade Gr	ease Version	Yes	No	No	Yes	No	No			
Operating Tem Humidity	perature and	0 to 50°C, 85% max. (with no condensation)								
Storage Tempe Humidity	rature and		-20 to 60°C, 75% max. (with no condensation)							
Operating and \$ Atmosphere	Storage	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 Cab	le 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							
	ΤοοΙ		Digital In: 4 Digital Out: 4 Analog In: 1 Analog Out: 0							
/O Interface		3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0								
Communication		RS232, Ethe	ernet (master), Modb	us TCP/RTU (master	& slave), Optional Fie	ldbus (EtherNet/IP o	PROFINET)			
Integrated Camera		5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color	5M pixels, color			
/O Power Supp	bly	24V 1.5A (control box and tool)								
Programming E	Environment			TMflow, flow	chart based					
SEMI S2 Certifi	ed*	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.



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Specifications

			TM12			TM14		
Product Name		TM12	TM12M	TM12M SEMI	TM14	TM14M	TM14M SEMI	
Weight (kg)			33.3			32.6	I	
Controller Weig	ght (kg)	13.8	14.5	14.5	13.8	14.5	14.5	
Max Payload (k	(g)		12			14	1	
Reach (mm)			1300			1100		
Mounting				Wall, Tab	le, Ceiling			
Typical Speed ((m/s)		1.3			1.1		
	Joint 1	±270°						
Joint Range	Joint 2, 4, 5	±180°						
Joint Range	Joint 3		±166°			±163°		
	Joint 6			±2	70°			
	Joint 1, 2			120	0°/s			
Joint Speeds	Joint 3			18	D°/s			
Joint Speeds	Joint 4, 5		180°/s			150°/s		
	Joint 6			18	0°/s			
Repeatability (r	nm)	±0.1						
IP			IP54	(robot arm), IP32 (coi	ntrol box), IP40 (robot	stick)		
Cleanroom Cla	ss			ISO C	Class 5			
Food Grade Gr	ease Version	Yes	No	No	Yes	No	No	
Operating Tem Humidity	perature and	0 to 50°C, 85% max. (with no condensation)						
Storage Tempe Humidity	erature and		-20 to 60°C, 75% max. (with no condensation)					
Operating and Atmosphere	Storage	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 Cab	le 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					
io Pons	ΤοοΙ			Digital Analo	al In: 4 Out: 4 g In: 1 g Out: 0			
I/O Interface			3 X C0	DM, 1 X HDMI, 3 X LA	AN, 4 X USB2.0, 2 X U	JSB3.0		
Communication		RS232, Ethe	rnet(master), Modbu	us TCP/RTU (master	& slave), Optional Fie	Idbus (EtherNet/IP or	PROFINET)	
Integrated Camera		5M pixels, color						
/O Power Supp	bly			24V 1.5A (cont	rol box and tool)			
Programming E	Environment			TMflow, flov	vchart based			
SEMI S2 Certifi	ed*	No	No	Yes	No	No	Yes	

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Collaborative Robots

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TM16

Specifications

			TN	116					
Product Name		TM16	TM16M	TM16M SEMI	TM16X				
Weight (kg)			32.2		31.9				
Controller Weig	ght (kg)		14	.1	•				
Max Payload (k	(g)		16						
Reach (mm)		900							
Mounting			Wall, Tab	le, Ceiling					
Typical Speed	(m/s)	1.1							
	Joint 1		±270°		±360°				
Joint Range	Joint 2, 4, 5		±180°		±360°				
Joint Kange	Joint 3		±163°						
	Joint 6		±270° ±						
Joint Speeds	Joint 1, 2		±1:	20°					
bolin opecus	Joint 3, 4, 5, 6		±180°						
Repeatability (r	nm)		±C).1					
IP		IP54 (robot arm), IP32 (control box), IP40 (robot stick)							
Cleanroom Cla		ISO Class 5							
Operating Tem Humidity	perature and	0 to 50°C, 85% max. (with no condensation)							
Storage Tempe Humidity	erature and	-20 to 60°C, 75% max. (with no condensation)							
Operating and Atmosphere	Storage	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 Cab	ole 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							
#010h3	ΤοοΙ		Digital Analo	l In: 4 Out: 4 g In: 1 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 Cam	iera		5M pixe	ls, color					
I/O Power Supp	bly	24V 1.5A (control box and tool)							
Programming E	Environment		TMflow, flow	rchart based					
SEMI S2 Certifi	ed*	No	No	Yes	No				

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Collaborative Robots

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 allow 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.



Specifications

Product Name		TM	120	TM2	20X		
Power Source		AC	DC	AC	DC		
Weight (kg)		3	3	3	3		
Controller Weight	(kg)		14.1				
/lax Payload (kg)				20			
Reach (mm)			1	300			
Mounting			Wall, Ta	ble, Ceiling			
Average Speed (m	/s)			1.3			
	Joint 1	±2	70°	±36	60°		
oint Range	Joint 2, 4, 5	±18	30°	±36	60°		
Joint Hange	Joint 3		±	166°			
	Joint 6	±2	70°	±36	60°		
	Joint 1, 2		g	0°/s			
	Joint 3		1:	20°/s			
Joint Speeds	Joint 4		1	50°/s			
	Joint 5	180°/s					
	Joint 6	225°/s					
Repeatability (mm)		±0.1					
ngress Protection		IP54 (robot arm), IP32 (control box), IP40 (robot stick)					
Cleanroom Class		ISO Class 3					
Operating Temperating	ature and Humidity	0 to 50°C, 85% max. (with no condensation)					
Storage Temperatu	ure and Humidity	-20 to 60°C, 75% max. (with no condensation)					
Operating and Stor	rage Environment	Ν	No corrosive gases or exposure to water-soluble cutting oil.				
Motor Power Supp	ly	110 to 240 VAC, 50/60 Hz	24 to 60 VDC	110 to 240 VAC, 50/60 Hz	24 to 60 VDC		
Robot Arm Cable L	_ength (m)	3 or 12	1.5	3 or 12	1.5		
/O Dorto	Control Box		Digital In: 16, Digital Out: 16 Analog In: 2, Analog Out: 1				
/O Ports	ΤοοΙ	Digital In: 4, Digital Out: 4 Analog In: 1, Analog Out: 0					
/O Interface		COM: 3, HDMI: 1, LAN: 3, USB2.0: 4, USB3.0: 2					
Communication		RS232, Ethernet (master), Modbus TCP/RTU (maste	er & slave), PROFINET (option	al), EtherNet/IP (optiona		
I/O Power Supply		24 VDC 2.0 A (control box) / 24 VDC 1.5 A (tool)					
Programming Environment			TMflow, flo	wchart based			
Integrated Camera Available		5 MP, color None					
SEMI S2 Certified ^{*1}	Available	No	Yes	No	No		
Fieldbus Available			EtherNet/II	P, PROFINET			

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Model Number Legend

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

No.	ltem	Specifications	Symbol
(1)	Colla	oorative Robots - Omron Techman	
		TM5	0
(2)		TM12	1
(2)	Model Type	TM14	2
		TM16	3
		TM20	4
(3)	Power Supply	AC	0
(3)	Fower Suppry	DC	1
(4)	Vision System	Integrated Camera	0
(4)	Vision System	No Camera (X Model)	1
		700 (TM5)	
(5)(6)	Arm Longth	900 (TM5 and TM16)	90
	Arm Length	1300 (TM12/TM20)	13
		1100 (TM14)	11
		Standard	0
(7)	Other Options	SEMI S2 Certified	1
(*)		Fieldbus (EitherNet/IP or PROFINET)	2
(0)	Cable Length	Standard Length (3m/1.5m) *2	
(8)	Cable Length	Extended Length (12m) *3	2

*1. X model refers to robot models without integrated camera system.
*2. 1.5m cable is only standard on DC models. 12m cable is not available on DC models.

Robot Parts Code and Bundled Accessories

Туре			TM5-700			TM5-900				
Product Name	TM5-700	TM5-700 TM5M-700 TM5M-700 TM5X-700 TM5MX-700				TM5-900	TM5M-900	TM5M-900 SEMI	TM5X-900	TM5MX-900
Overview	Robot and cor system	ntrol box with bu	uilt-in vision	Robot and con without vision		Robot and co system	ntrol box with b	uilt-in vision	Robot and co without vision	
Purpose	Typical for use	e in single collat	system	Typical for us	e in single colla	borative robot s	system			
Bundled Accessories	cm and 1200 cd • Robot stick (1 • Control box (1 • Calibration pla X model bundle • IO cables,(2) • Landmark (2) • Ground wire (• Jumper wire (• Power cable f (4 standard par • SEMI emerge	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					 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 			
Туре			TM12					TM14		
Product Name	TM12	TM12M	TM12M SEMI	TM12X	TM12MX	TM14	TM14M	TM14M SEMI	TM14X	TM14MX
Overview	Robot and cor system	ntrol box with bu	uilt-in vision	Robot and cor without vision		Robot and control box with built-in vision Robot and control box without vision system				
Purpose	Typical for use	e in single collat	porative robot s	system		Typical for use in single collaborative robot system				
Bundled Accessories	cm and 1200 cd Robot stick (1 Control box (1 Calibration pla X model bundle IO cables,(2) Landmark (2) Ground wire (Jumper wire (Power cable f (4 standard par SEMI emerge	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					m), 300 cm 1) ates (one large a es) 100 cm (not included wi (2), 300 cm (2), 3 cm	nd one small) (n th the X model b x.(4 cable, Type ille part number) (SEMI model on	B, I, G, F), 180 c	the



Туре		TM16				TM20				
Product Name	TM16	TM16M	TM16M SEMI	TM16X	TM16MX	TM20	TM20M	TM20M SEMI	TM20X	TM20MX
Overview			Robot and control box without vision system		Robot and cor system	Robot and control box with built-in vision system		Robot and cor without vision		
Purpose	Typical for use in single collaborative robot system					Typical for use	e in single colla	borative robot s	system	
Bundled Accessories	 Typical for use in single collaborative robot system 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 					cm and 1200 cc • Robot stick (1 • Control box (1 • Calibration pla X model bundle • IO cables,(2) • Landmark (2) • Ground wire (• Jumper wire (• Power cable fi (4 standard par • SEMI emerge	m), 300 cm l) ates (one large a as) 100 cm (not included wit 2), 300 cm 2), 3 cm	nd one small) (n h the X model b x,(4 cable, Type ile part number) (SEMI model on	B, I, G, F), 180 c	he

Collaborative Robots ACCESSORIES & Software

Accessories

Image: Second	Appearance	Product Name	Description	Remarks	Part Number
Image: Compatible with Additional process of the control of the contrend the ton the control of the contrel of the control of the con	omron イズマイ	Landmark		Compatible with all hardware	RT6-A000021
Modele Workstation (MWS) robot aim on work surface, and store the control box asily within Users can move the MWS with the robot to different work cells easily. Compatible with OMRON TMS RTEG.A Image: Compatible with OMRON TMS only. Redox stand Similar to MWS; the robot stand can be moved with the robot to different work stations easily. Height adjustable. Compatible with OMRON TMS only. RTEG.A Image: Compatible with the robot to different work stations easily. SATA cable included. Recommended for external cameras image togging. RTEG.A Image: Compatible with additional pit (CPC) that eaching a precise tool center point calevation within TMMsion Required for TCP and manual vision calibration. RTEG.A Image: Control box Controls the inputs and outputs and monitors air pressure for Kilews screw driving applications. Can be used on desktops, walls. RTEG.A RTEG.A Image: Control box Controls the inputs and outputs and monitors air pressure for Kilews screw driving applications. Compatible with Kilews screw restation must be changed regularity o mainter effort with and effort pre- restatiation Manual. RTEG.A Image: Control box Fieldbus Communication Adapter Fieldbus retrofit kit for Omron TM cobots. Adds Enderwith Revolution kit on the Finderway restation Manual. RTEG.A Image: Control box A2-finger parallel gripper that can adapt to path restatation Manual. Stift - Tometer compatibl	M	Landmark		Compatible with all hardware	RT6-A000008
Robot stand With the robot is different work; unit load status is also in bottom work; with the robot is different work; status is also in a status in a status in a status in a status is also in a status in a status in a status is also in a status		Mobile Workstation (MWS)	robot arm on work surface, and store the control box safely within. Users can move the MWS with		RT6-A000010
SSD with cable L2b Ge solid state hard drive. Recommended for external cameras image (or external cameras image)	P. Por	Robot stand			RT6-A000009
Kit, calibration set with additional pin (TCP) that can be used for manual workspace calibration Networkspace values and values and values and values and monitors and MWS. RTE-A Image: Control Status Robot stick stand Mounting fixture for the robot stick. Can be used on desktops, walls, and MWS. RTE-A Image: Control Status Pneumatic control box Controls the inputs and outputs and monitors air pressure for Kilews screw driving applications. Compatible with Kilews screw transmitter in the former of the regularity to maintain efficiency. The reglacement procedure can be found in the Hardware Instalation Manual. RTE-A Image: Control Status Replacement air filter for the control box. The filter must be changed regularity to maintain efficiency. The reglacement procedure can be found in the Hardware Instalation Manual. 19936 Image: Control Kit for Omron TM cobots. Fieldbus retroft kit for Omron TM cobots. Adds End effector coupling kit includes: Installation must be performed by Omron personnel. 19936 Image: Stri40 for OMRON TM robot A 2-finger adaptive gripper that can adapt to parts includes:		SSD with cable	128 GB solid state hard drive.	Recommended for external	RT6-A000012
Area Market and MMS. and MMS. and MMS. Area MMS. Image: Area Market and Stress and Stress Control box Controls the inputs and outputs and monitors air pressure for Kilews screw driving applications. Compatibile with Kilews screw driving applications. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. Page applications.	12	Kit, calibration set with additional pin	(TCP) that can be used for manual workspace		RT6-A000002
Pneumatic control box Control the inputs and outputs and monitors air pressure for Kilews screw driving applications. driving solution kit only. Recommended to attach to the robot stand. RTE-A Image: All or 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. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter must be changed regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. The filter found by the filter found by the filter found by the filter for the control by the filter for the control by the filter for the control to must be performed by Omron personnel. State filter found by the filter for the contr	3.3	Robot stick stand	Mounting fixture for the robot stick.		RT6-A000000
Air Filter (ROHS) Replacement air filter for the control box. regularly to maintain efficiency. The replacement procedure can be found in the Hardware Installation Manual. 19936. Image: Control of the Hardware Installation Manual. 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. Image: Control of the Hardware Installation Manual. Replacement air filter for the control box. Installation Manual. 19936. Image: Control of the Hardware Installation Manual. Fieldbus Communication Adapter A2-finger adaptive gripper that can adapt to parts of various shapes and sizes. Comes in two stroke Installation must be performed by Omron personnel. 0MRC Image: Control of the Hardware B5/140 for OMRON TM robot A2-finger parallel gripper with an IP67 rating. SOmm stroke. Each kit includes: -Each kit includes: -Each kit includes: -RS485 to USB converter -SCrew kit -Quick start guide HND-C KIT Image: Control of the Pick for Omron TM robot A-2-finger parallel gripper that uses an integrated vacuum generator. 1 vacuum cup VAC-C EPICK Image: Control of the Pick for Omron TM robot A vacuum gripper that uses an integrated vacuum generator. 1 vacuum cup VAC-C EPICK Image: Control of the Pick for Omron TM robot Each kit includes: -Basic gripper unit -Def effector coupling kit -Unmeter	1.	Pneumatic control box		driving solution kit only. Recommended to attach to the	RT6-A000015
Fieldbus Communication Adapter EtherNet/I/P and Profinet communication capabilities. Omron personnel. 19936 Image: Solution of the second		Air Filter (ROHS)	Replacement air filter for the control box.	regularly to maintain efficiency. The replacement procedure can be found in the Hardware	19936-443F
A2-finger adaptive gripper that can adapt to parts of various shapes and sizes. Comes in two stroke options – 85mm and 140mm. - End effector coupling kit - End effector coupling kit - OMRCO - RS485 to RS232 converter - RS485 to RS485 to RS232 converter - RS485 to RS485	62	Fieldbus Communication Adapter	EtherNet/IP and Profinet communication	, , , , , , , , , , , , , , , , , , , ,	19936-820F
Robotiq Hand-E gripper for OMRON TM robot A 2-finger parallel gripper with an IP67 rating. 50mm stroke. - Fingertip starting kit - End effector coupling kit - IO-meter communication cable - RS485 to USB converter - RS485 to USB converter - Screw kit - Quick start guide HND-CK KIT Image: Comparison of the two parallel gripper for OMRON TM robot A 2-finger parallel gripper with an IP67 rating. 50mm stroke. - Fingertip starting kit - End effector coupling kit - Quick start guide HND-CK - RS485 to USB converter - Screw kit - Quick start guide HND-CK - RS485 to USB converter - Screw kit - Quick start guide HND-CK - RS485 to USB converter - Screw kit - Quick start guide HND-CK - RS485 to USB converter - Screw kit - Quick start guide I vacuum cup VAC-CC EPICK Image: Comparison of the two parallel	6-2	Robotiq Adaptive Gripper 2-Finger 85/140 for OMRON TM robot	of various shapes and sizes. Comes in two stroke	End effector coupling kit 10-meter communication cable RS485 to RS232 converter RS485 to USB converter Screw kit	85 kit: AGC- OMRON-KIT-85 140 kit: AGC- OMRON-KIT- 140
A vacuum gripper that uses an integrated vacuum generator. I vacuum cup EPICK Robotiq EPick for Omron TM robot Each kit includes: -Basic gripper unit -End effector coupling kit -10-meter communicable cable -RS485 to RS232 converter -RS485 to USB converter -RS485 to USB converter -Quick start guide -Vacuum cup(s): 1.5 bellows, 55mm diameter A suction system for 4 cups VAC-OE				Fingertip starting kit End effector coupling kit I0-meter communication cable R\$485 to R\$232 converter R\$485 to U\$B converter Screw kit	HND-OMRON- KIT
Robotiq EPick for Omron TM robot -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 A suction system for 2 cups VAC-C EPICK	Ŵ			1 vacuum cup	VAC-OMRON- EPICK-KIT1
-Vacuum cup(s): 1.5 bellows, 55mm diameter	4	Robotiq <i>E</i> Pick for Omron TM robot	-Basic gripper unit -End effector coupling kit -10-meter communicable cable -RS485 to RS232 converter -RS485 to USB converter	A suction system for 2 cups	VAC-OMRON- EPICK-KIT2
EPICK	1			A suction system for 4 cups	VAC-OMRON- EPICK-KIT4

Appearance	Product Name	Description	Remarks	Part Number
P		A vacuum gripper that uses an external pneumatic supply.	1 vacuum cup	VAC-OMRON- AIRPICK-KIT1
24	Robotiq AirPick for Omron TM robot	Each kit includes: -Basic gripper unit -Tubing 8mm-8m -End effector coupling kit -RS485 to RS232 converter -RS485 to USB converter	A suction system for 2 cups	VAC-OMRON- AIRPICK-KIT2
1 Star	-	-Quick start guide -Vacuum cup(s): 1.5 bellows, 55mm diameter	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
30	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		Each kit includes: - Chosen gripper x 2	OMRON-DUAL- AGC-85
1 m	Robotiq 2F-140 Dual kit for OMRON Robots	Kit that enables dual gripper setting.	- Mechanical coupling x 2 - USB to RS485 Adapter - Communication Cable	OMRON-DUAL- AGC-140
	Robotiq HAND-E Dual kit for OMRON Robots		- M12 5 Pins Splitter - Dual-Grip Adapter Plate - Screw kit x 2	OMRON-DUAL- HND
Actemit	Robotiq Force Sensor FTS-300-S	Six-axis force/torque sensor with RS485 Serial Communication.	Each kit includes: - Coupling - RS485 to RS232 converter - Power and communication cable	FTS-300-S- OMRON-KIT
			Monochrome, 640 x 480, 120 fps, C equivalent) 24114-100	CD (1/4-inch
	Basler GigE Camera	External camera for eye-to-hand robot applications. Maximum 2 external cameras per robot.	Monochrome, 1600 x 1200, 60 fps, (equivalent) 24114-250	CMOS (1/1.8-inch
			Monochrome, 2048 x 2048, 25 fps, CMOS (1-inch equivalent)	24114-300
	NexCobot	Optional teach pendant for the Omron TM Collaborative Robot	TP Package-Plug&Play for OM	RT6-A000020

Software

Product Name	Add-On Product Names	Part Number	Add-On Part Numbers	Remarks
USB Dongle	-	RT6-A000004	-	Required for all extra software licenses.
TMflow	- wc		-	Software required to control the cobot.
	TM Identify & Measure	-	RT6-S100000	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	-	RT6-S100002	License, add-on to TMflow. Required when using eye-to-hand cameras.
	TM OCR	-	RT6-S100003	License, add-on to TMflow. Includes: Text OCR and Number OCR.
TMflow Editor	-	RT6-S200001	-	License, provides a convenient way to open and edit project offline.
	TMflow Editor - Offline AOI	-	RT6-S100005	License, add-on to TMflow Editor. Enables TMflow Editor to offline edit a TMflow project that includes AOI vision.

Recommended Plug & Play Hardware

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description					
							RG2-FT	102075	The RG2-FT has 2 force/torque sensors and 2 time-of-flight based proximity sensors integrated in the fingertips. It's a state of the art gripper with added sensing and intelligence, capable of controlling the robot and itself to achieve what the operator would like it to do, even when the exact parameters cannot be programmed in advance. It includes: - RG2-FT Gripper - Fingertip adapter (pre-mounted) - Cable - Cable holder and screws Required option for mounting on the robot: - single quick changer (robot side) - dual quick changer (robot side) - HEX QC Required option for connecting to the robot: - connection kit with compute box	
				RG6 Gripper	102021	Electric 2-finger gripper with larger stroke. Each kit includes: - RG2 Gripper - Fingertip adapters (pre-mounted) - Integrated Quick Changer (tool side) - Torx key				
	and the second		VG10 Electric Vacuum Gripper	101661	Flexible and adjustable electrical vacuum gripper. Each kit includes: - VG10 Gripper - d30mm suction cups x 16 (pre-mounted) - Integrated Quick Changer (tool side) - d40mm suction cups x4 - d15mm suction cupsx4 - Blind screws x16 - Positioning arrows - Torx key					
	1	OnRobot	OnRobot	Single Pad Gecko	104086 SP1 104087 SP3 104088 SP5	Compact, lightweight Gecko Single Pad Gripper requires no cables, electricity, air or programming. The Gecko SP is available in 3 sizes; SP1, SP3, and SP5 named after the grippers payload in kilos, featuring the ability to lift a wide range of flat, smooth, shiny or perforated surfaces. Options are: Gecko SP1 (with 35mm pad) Gecko SP3 (with 60mm pad) Gecko SP5 (with 75mm pad)				
Grippers	8			OMRON TM Robot Kit	102359	This kit must be purchased for the use of OnRobot grippers on OMRON TM collaborative robot. Each kit includes: - Compute Box - Power supply - Adapter plate (included in all kits but only necessary for VG10 and Gecko grippers) - USB stick with software components and User Manual - Device cable 5m - UTP cable 0.5m - I/O cable 0.5m - Cable management hook/loop				
	4							3FG15-3 Finger Gripper	103666	The 3FG15 is ideal for gripping a wide range of cylindrical objects in machine-tending applications such as CNC lathe machines. The grippers design automatically centers workpieces, with payload up to 15kg. It includes: - 3FG15 - Torx Key T20 - 3 x Steel Fingertip Ø13 - 3 x Rubber Fingertip Ø 16,5
				Soft Gripper	103546 SG Base Part 103689 SG-a-H 103860 SG-a-S 103691 SG-b-H	This is available with three interchangeable silicon-molded cups to handle a wide array of irregular shapes and delicate items, making it ideal for pick-and-place applications in food and beverage and other "clean" production applications. The silicon cups are dishwasher- safe and comply with FDA 21 CFR (for non-fatty items) and EC 1935/2004 for food handling. Maximum payload of 2.2 kg, and grip dimensions range from 11mm to 118mm, depending on cup used.				
					VGC10	102844	This flexible electric vacuum gripper has changeable suction cup options for unlimited customization possibilities. It's smaller and at half the weight of VG10 but with the same payload. It includes: - D40mm Vacuum Cups - D30mm Vacuum Cups - D15mm Vacuum Cups - Fittings - Push-in fittings - M6x10mm Screws - Blind Screws - Torx T30 - Allen 3mm Keys - Adapter Plate - Extension pipe 50mm			

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description	
		Schmalz	ROB-SET ECBPI OMRON	10.03.01.00544	Complete vacuum gripper for collaborative robots. Each kit includes: - Vacuum generator (ECBPi) - End-effector coupling kit - Connection cable - Mounting flange - Flat suction cup - Bellows suction cup - Bolts and t-nuts - Operating instructions	
			ROB-SET FXCB OMRON	10.01.43.00120	Area gripper equipped with integrated pneumatic vacuum generation. (Needs external air supply.) Each kit includes: - Pneumatic area gripper (FXCB) - Connection cable - Mounting flange - Bolts and t-nuts - Operating instructions	
		Schunk	Co-act EGP-C 40 N-N- TMID	1374363	Electric 2-finger parallel gripper certified for collaborative operation with actuation via 24 V and digital I/O. Each kit includes: - Co-act EGP-C gripper - Assembly and Operating Manual - Accessory pack	
			Co-act AUB EGP 40/12 Co-act AUB EGP 40/24 Co-act AUB-F EGP 40/xx	1401285 1401286 1409839	Gripping fingers for Co-act EGP-C.	
Grippers						
		- SMC	Air Gripper	JMHZ2X7400BTM	Air gripper equipped with a high precision linear guide.Compact, lightweight product with high gripping force due to air operation. Operate by simply connecting one air supply tube and an electric wiring M8 connector. Each kit includes: - Air gripper unit - Parallel pin (6x10mm) x 1 - Hexagon socket head cap screw (M6x23) x 4 - Protective cover x1 set (valve side, S.W side) - Hexagon socket head cap screw (M4x10) x 4 - Tube for piping (TU0425BU) 2m - User manual	
			Vacuum Gripper	ZXP-X1	Operate by simply connecting one compressed air supply tube and an electrical wiring M8 connector. The wide variety of SMC suction cup variations can apply to a wide range of picking applications. The adsorbing detection is made easy with sensor signals. Each kit includes: - Vacuum gripper unit - Robot mounting flange - 6x10, parallel pin - 8 pcs x M6 x 10, Hexagon socket head cap screw - 2m, Polyurethane tube: TU0604 - Plug 4 pcs (cup mounting flange) - 4 pcs x suction cup with adapter (suction cup)	
	F		Compact Gripper RLSH- TM	RLSH-A20D1NL1- FY2-TM		
	Ŵ	CKD	Long Stroke Gripper RHLF-TM	RHLF-16CSFY2- TM	Small, lightweight, pneumatic gripper with high gripping force. Easy installation with a dedicated common flange and tool-less replacement with a clamp ring, and teaching support is supported with the dedicated software "Pneumatic Gripper." Equipped with an edgeless resin cover and an LED indicator lamp that is visible 360 degrees, it is designed with consideration	
			3-way Finger Gripper RCKL-TM	RCKL-16CSFY3- TM	for safety and supports the introduction of collaborative robots by all customers.	

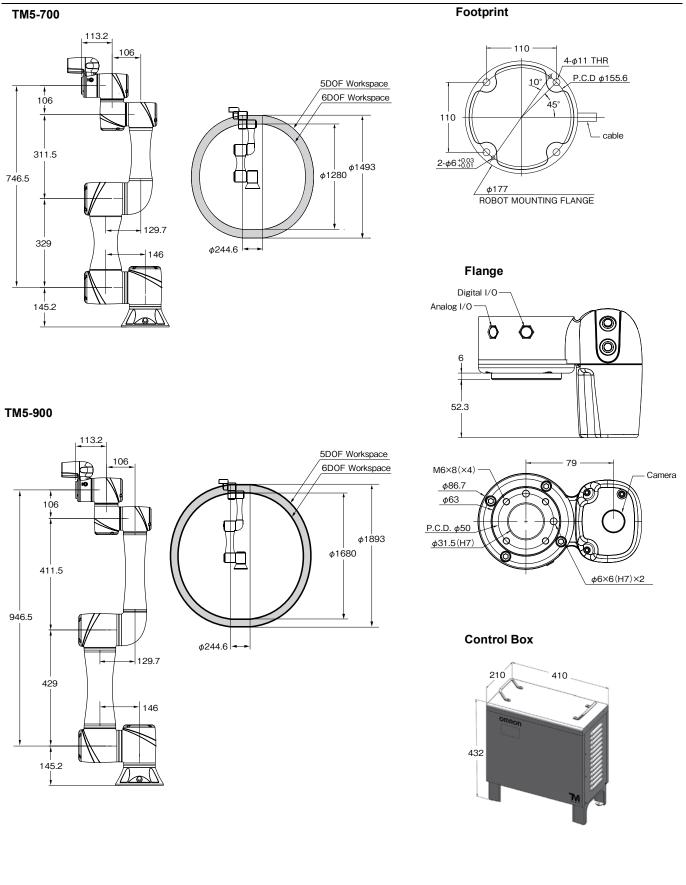
Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description	
	B 🛞	KOSMEK	Robotic Tool Changer	Master Cylinder: SWR0070-M□-□ SWR0120-M□-□ Conversion Plate Set: SWRZ0070-MF4 SWRZ0120-MF4 Tool Adapter: SWR0070-T- □ SWR0120-T-□	High-precision robotic tool changer with many features enables multiple functions of robots and setup time reduction. It enhances the productivity of the automated production line.	
Tool Changers			Quick Changer-robot side	102037	Manual tool changer to attach on the robot's end-of-arm. Either the Quick Changer (robot side) or the Dual Quick Changer must be purchased for use of all OnRobot grippers. Each kit includes: - Quick Changer robot side - Screws - Torx key	
			Quick Changer- tool side	102014	Manual tool changer to attach on the tool side. (All OnRobot gripper have this component integrated, so this is only necessary when use is developing own tool.)	
	00	- OnRobot	Quick Changer Kit	102277	Each kit includes: - Quick Changer (robot side)x1 - Quick Changer (tool side)x2 - Torx key - Screws and pins	
	0		Dual Quick Changer	101788	Manual tool changer to attach on the robot's end-of-arm for dual gripper configuration. Either the Quick Changer (robot side) or the Dual Quick Changer must be purchased for use of all OnRobot grippers. Each kit includes: - Dual Quick Changer - Screws - Torx key	
	0	Pick-it	Pick-it M	PI-M-2.0	Plug & Play 3D camera and software for picking objects sized 50x50x10mm or larger. Each kit includes: - Pre-calibrated 3D camera - Pick-it software - Industrial processor - 3G dongle to connect directly to Pick-it support - Calibration plate and ROi box teaching markers - All connection cables (plug & play) - Quick start guide	
3D Bin Picking	10		Pick-it M-HD	PI-M-HD	Plug & Play 3D camera and software for picking objects sized 10x10x5mm or larger. Each kit includes: - Pre-calibrated 3D camera - Pick-it software - Industrial processor - 3G dongle to connect directly to Pick-it support - Calibration plate and ROi box teaching markers - All connection cables (plug & play) - Quick start guide	
Screw Driving	S.M.	Kilews	Screw Driving Solution Kit	TM-BN512LAD-	Kilews screwdriver kit. Pneumatic control box (RT6-A000015) is required and sold separately. Each kit includes: -Screwdriver SKD-BN512LM -Power control Box SKP-32BC-60W -Flange E31700-3 -Air Nozzle KS-TM-B500-□0 -Singal Box KL-SCBSN	
OnRobot Screwdriving Tool	1 9 9	OnRobot	Screwdriver	103961 105121 104363 104374 105870	Smart screwdriver with screw feeder easily automates multiple screw driving processes with no downtime for manual changeovers. Precise torque control and intelligent error detection ensure quality and consistency. The following accessories are required depending on the screw size. -Screwdriver Accessory Kit Metric: Screwdriver bit system for various screw types and sizes -Screw Feeder M1-6: Automatic feeder for M1 to 6 size screws -Screw Feeder M2-6: Automatic feeder for M2 to 6 size screws -Angle Bracket	

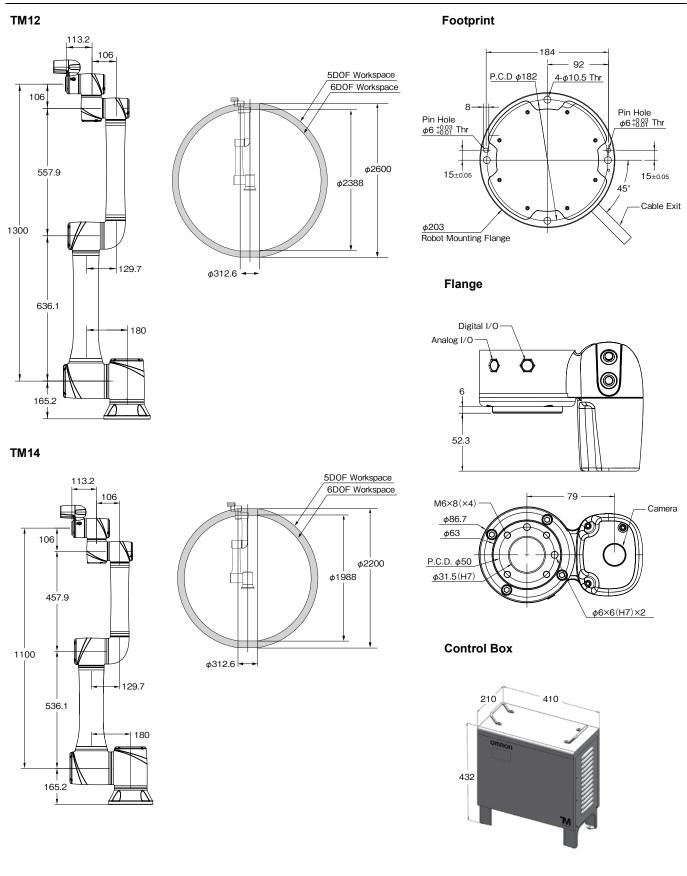
* Manufacturer SKU numbers are 3rd party part numbers, not OMRON part numbers.

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description	
			GigE camera, color, 5MP, CMOS 1/2.5", 14 fps	acA2500-14gc, Rolling Shutter		
			GigE camera, mono, 5MP, CMOS 1/2.5", 14 fps	acA2500-14gm, Rolling Shutter		
			GigE camera, color, 5MP, CMOS 1", 21fps	acA2500-20gc, Global Shutter		
		Basler	GigE camera, mono, 5MP, CMOS 1", 21 fps	acA2500-20gm, Global Shutter		
Vision			GigE camera, color, 5MP, CMOS 2/3", 23fps	acA2440-20gc, Global Shutter	External camera for eye-to-hand robot applications.Maximum 2 external cameras	
Vision			GigE camera, mono, 5MP, CMOS 2/3", 23 fps	acA2440-20gm, Global Shutter	per robot.	
			GigE, camera, color, 10MP, CMOS 1/2.3", 10 fps	acA3800-10gc, Rolling Shutter		
			GigE, camera, mono, 10MP, CMOS 1/2.3", 10 fps	acA3800-10gm, Rolling Shutter		
			GigE, camera, color, 12.2 MP, CMOS 1/1.7", 8 fps	acA4024-8gc, Rolling Shutter		
			GigE, camera, mono, 12.2 MP, CMOS 1/1.7", 8 fps	acA4024-8gm, Rolling Shutter		
					Six-axis force/torque sensor with EtherCAT communication. Each kit includes:	
	ATI		Axia80	9105-TM-Axia80	 Interface plate Power and Ethernet cable Digital delivery of calibration documents and user manual 	
Force sensor		OnRobot	HEX-E/H	- 100551 HEX-H w/ EtherCAT Converter & Flange A - 100535 HEX-E w/ EtherCAT Converter & Flange A	HEX six-axis force torque sensors use a unique, optical principle to detect the smallest forces acting on the tool, with EtherCAT communication. The OnRobot force control software package is optimized for these sensors. It includes: - HEX-E or HEX H - Mounting plate - Screws - Cable - Torx key Required to connect the sensor to the robots: - Connection kit with Compute Box	
7th Axis		Ewellix	LIFTKIT	LIFTKIT-OM-601	A ready-to-install system that includes a telescopic column with a mounting interface and controller. Stroke options (mm): 500, 600, 700, 800, 900. Each kit includes: -Telescopic pillar -Controller -TM attachment plate -Bottom fixation plate -Handswitch -Cables and screws	
Connectivity		ADLINK	EtherCAT I/O Expansion Modules KIT	EPS - 9905+6000+2032+ 1132	A Kit that includes: chassis w/ EtherCAT ports and voltage input, 32-channel digital output module, 32-channel digital input module.	
			EtherCAT I/O Expansion Modules (DO Module)	EPS-2032	32-channel digital output module.	
			EtherCAT I/O Expansion Modules (DI Module)	EPS-1132	32-channel digital input module.	
		Advantech	Serial Device Server EKI-1524-CE	EKI-1524-CE	External device with serial ports that communicates with the robot via TCP/IP.	
			Modbus to PROFINET Gateways	EKI-1242IPNMS	A gateway to transform Omron TM cobot's Modbus to PROFINET, whereby Omron TM cobot as slave could communicate with PROFINET master devices.	

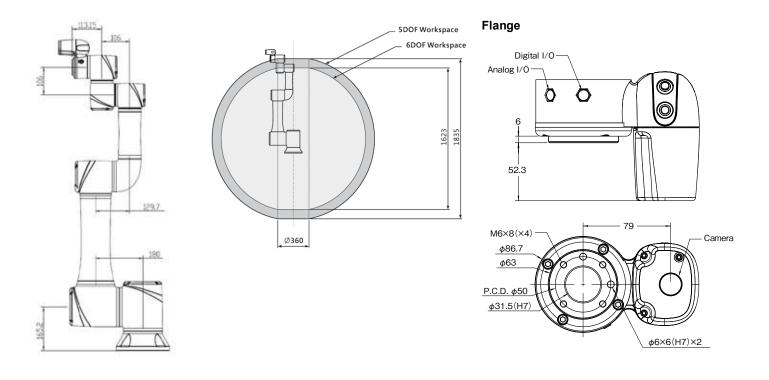
Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description
		Murrplastik	FHS-C-SET TM5 (TM5-700 & TM5-900) 83693500		Cable management dress pack. Each kit includes: Conduit (Cable routing hose, Length:2m, Interior diameter: ~21mm)
Cable Management			FHS-C-SET TM12 / TM14 (TM12 & TM14)	83693501	4x Attachment straps 2x End plugs Cable insertion tool Installation instructions
	B		FHS-RS-SET TM5 (TM5-700 & TM5-900)	83693506	Cable management dress pack. Each kit includes: Conduit (Cable routing hose, Length:2m, Interior diameter: ~21mm) 2x Conduit clamps Self-retracting hose guide (2x Ball joint fixing, Ball joint strain relief, Feedback system, System holder) Tool-end clamp End sleeve Cable puller Installation instructions
			FHS-RS-SET TM12 / TM14 (TM12 & TM14)	83693507	
			12OZ 1000-DENIER NYLON OMRON/TM COLLABORATIVE ROBOSUIT		 Excellent general use material for basic protection from dust, dirt and large grit Not suited for use in wet applications as the material is breathable Very low level of abrasion resistance Wide range of color choices available
Robot Covers	J.		180Z FIRE-RETARDANT VINYL OMRON/TM COLLABORATIVE ROBOSUIT		Excellent general use material for most water-soluble coolants and cutting fluids, fine mesh grits and powders, de-ionized water, and limited protection from pressurized water spray/mist Very low level of chemical and abrasion resistance Wide range of color choices available
			17OZ HYPALON® IMPREGNATED VINYL OMRON/TM COLLABORATIVE ROBOSUIT		Excellent material for use in high-abrasion environments as well as metal chips (de- burr/cutting) Provides limited levels of protection from water spray/mist while offering good levels of chemical resistance Limited range of color choices available
			ALUMINUM COATED KEVLAR® OMRON/TM COLLABORATIVE COLLABORATIVE ROBOSUIT		Excellent material for use in high and low heat environments, light sparks and for UV protection Nominal insulating factor of R-0.7 Maximum radiant operating temperature of 1500F. Minimum operating temperature - 65F Silver in color
			10-MIL LAMINATED TEFLON® OMRON/TM COLLABORATIVE ROBOSUIT		Excellent protection in (caustic) chemical environments FDA approved option, however, that does not equate to the Robosuit® being FDA- approved Maximum radiant operating temperature of 650F Grey in color
			ISOTHERM® WELD SPLATTER OMRON/TM COLLABORATIVE ROBOSUIT		Excellent material for use in low-inertia weld splatter and heavy spark applications Maximum sustain (radiant) operating temperature of 500F. Short-term exposure to 700F Grey in color
Simulation Software	I _1	RoboDK	RoboDk Simulation Software	N/A, Download	RoboDK is a powerful and cost-effective simulator and programming tool. No programming skills are required to generate complex robot path. Custom 3D model can be imported to quickly simulate real life application.

* Manufacturer SKU numbers are 3rd party part numbers, not OMRON part numbers.

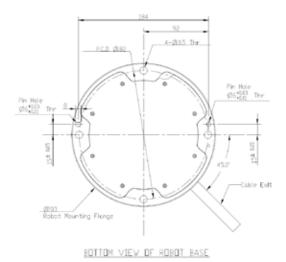




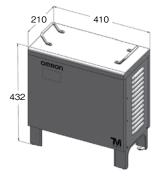
TM16



Footprinting



Control Box



Pin hole

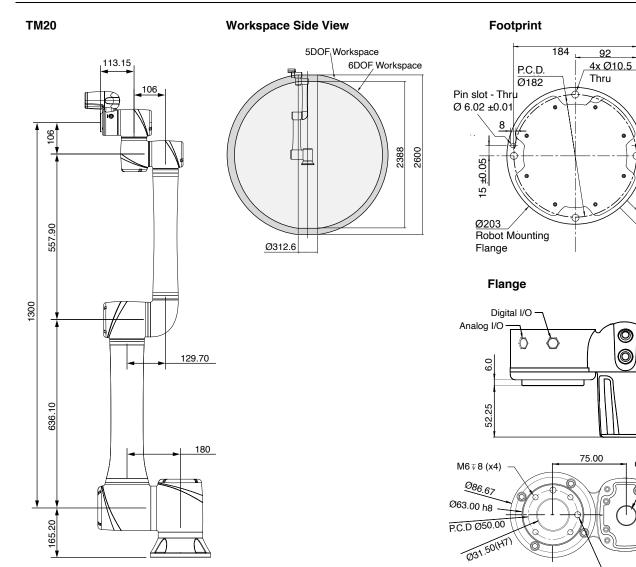
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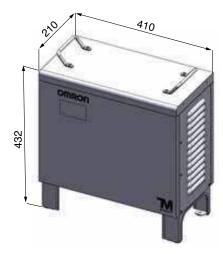
Cable

Exit

Camera



Control Box



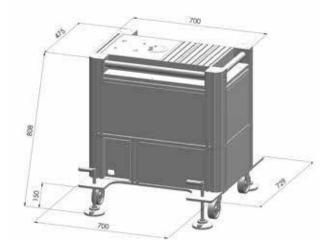
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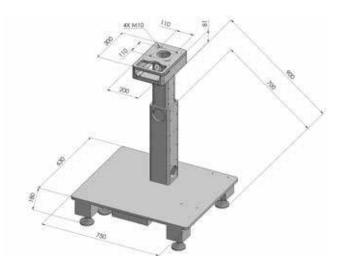
Accessories Dimensions

(Unit: mm)

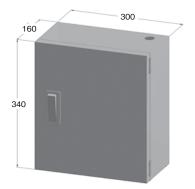
Mobile Work Station (MWS)

Robot Stand





Pneumatic Control Box



Related Manuals

Manual No.	English Title
1623	TM5 Regular Payload Series Hardware Installation Manual
1624	TM12 & TM14 Medium & Heavy Payload Series Hardware Installation Manual
1626	Software Manual TMflow
1627	Software Manual TMvision
1628	TM Mobile Work Station Manual
1629	TM Robot Stand Manual
1630	Pneumatic Control Box Manual
1648	Safety Manual Safety System 3.2
1848	Expression Editor and Listen Node Reference Guide



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