# **Collaborative Robots**

# 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 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.
- Food Grade Grease\* option available (supplied with food grade grease).



TM5-900

# **TM5 Ordering Information**

Туре	Power Source	Integrated Camera	Reach	SEMI S2 Certified	Food Grade Grease*	Fieldbus	Cable Length	Part Number
					NI-	No		RT6-0007001
					No	Yes	•	RT6-0007021
		Yes			Yes	No	3 m	RT6-0007031
		res			res	Yes		RT6-0007041
						No	10	RT6-0007002
	AC				No	Yes	12 m	RT6-0007022
	AC			No	INO	No		RT6-0017001
				No		Yes	0	RT6-0017021
		No	700 mm		Yes	No	3 m	RT6-0017031
		NO			Yes	Yes		RT6-0017041
						No	10	RT6-0017002
						Yes	12 m	RT6-0017022
						No		RT6-0107001
		Yes			No	Yes		RT6-0107021
	DC			Yes		NI-	1.5 m	RT6-0107011
					No		RT6-0117001	
T145		No		No		Yes		RT6-0117021
TM5					NI-	No		RT6-0009001
					No	Yes	•	RT6-0009021
						No	3 m	RT6-0009031
		Yes			Yes	Yes		RT6-0009041
						No	12 m	RT6-0009002
	40				NI-	Yes	12 M	RT6-0009022
	AC				No	No		RT6-0019001
				No		Yes	0	RT6-0019021
		NI-	900 mm		V	No	3 m	RT6-0019031
		No			Yes	Yes		RT6-0019041
	Yes				No	10	RT6-0019002	
						Yes	12 m	RT6-0019022
						No		RT6-0109001
		Yes			No	Yes		RT6-0109021
	DC			Yes		N	1.5 m	RT6-0109011
			+ +			No		RT6-0119001
		No		No		Yes		RT6-0119021

<sup>\*</sup> Food Grade Grease robots are not FDA certified. They are only suitable for select food-related applications, and require an evaluation and risk assessment of the use environment.

# Items Included with a TM5 Robot System

Item	Robot	Cable	Robot Stick	Control Box	Calibration Plates	I/O Cables	Landmark	Ground wire	Jumper Wire	Power cable	SEMI Switch	SEMI ESTOP Cable
Description	TM5-700 or TM5-900	3, 1.5, and 12 m options	Hand control to move robot	Robot Control Box	Large and small. Not with X model robots	1 m	Not with X model robots	3 m	3 cm	For Control Box (3 cable: B, G, F) 1.8 m	SEMI Emergency OFF, SEMI robots only	SEMI robots only, 3 m
Quantity	1	1	1	1	2	2	2	2	2	1	1	1

# **Part Number Structure**

No.	Item	Specifications	Symbol
(1)		Techman Series	*
(2)	Model Type	TM5	0
(0)	Power Source	AC	0
(3)	Power Source	DC	1
(4)	Interveted Comeye	Standard	0
(4)	Integrated Camera	X Model (no camera)	1
(5)(0)	A man I a math	700	70
(5)(6)	Arm Length	900	90
		Standard	0
		Semi	1
(7)	Option	Fieldbus	2
		Food Grade Grease	3
		Food Grade Grease, Fieldbus	4
(0)	0.11.1	Standard Length (1.5 m / 3 m)*1	1
(8)	Cable Length	Extended Length (12 m)*2	2

<sup>\*1</sup> A 1.5 meter cable is standard for DC models and a 3 meter cable is standard for AC models.

# **Specifications**

Product Name		TM5	-700	TM5)	K-700	TM5	-900	TM5X	(-900		
Power Source		AC	DC	AC	DC	AC	DC	AC	DC		
Weight (kg)		22	2.1	21	.8	22	2.6	22	2.3		
Controller Weight	(kg)	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5		
Max Payload (kg)				6				4			
Reach (mm)			7	00			9	00			
Mounting					Wall, Tab	ole, Ceiling					
Average Speed (m	/s)		1	.1		1.4					
Joint 1		±2	70°	±30	60°	±270°		±30	60°		
Joint Pango	Joint 2, 4, 5		80°	±360°		±180°		±360°			
Joint Range Joint 3		±155°									
	Joint 6	±2	270° ±360°		60°	±2	70°	±30	60°		
Joint Speeds	Joint 1, 2, 3	180°/s									
	Joint 4, 5, 6	225°/s									
Repeatability (mm	)	±0.05									
Ingress Protection	1	IP54 (robot arm), IP32 (control box), IP40 (robot stick)									
Cleanroom Class		ISO Class 5									
Operating Temper	ature and Humidity			0 to 50°	C, 85% max.	(with no conde	nsation)				
Storage Temperat	ure and Humidity			-20 to 60	°C, 75% max	. (with no conde	ensation)				
Operating and Sto	rage Environment		N	lo corrosive gas	ses or exposu	re to water-solu	uble cutting oil	l.*1			
Motor Power Supply		100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC		

 $<sup>^{\</sup>star}2$  A 12 meter cable is available for all AC models except for the Food Grade Grease units.

Product Name		TM5	700	TM5	X-700	TM5	-900	TM5X	-900	
Power Source		AC	DC	AC	DC	AC	DC	AC	DC	
Robot Arm Cable I	_ength	3 m or 12 m   1.5 m   3 m or 12 m   1.5 m   3 m or 12 m   1.5 m   3 m or 12 m   1.5 m								
I/O Ports	Control Box	Digital In: 16, Digital Out: 16 Analog In: 2, Analog Out: 1								
I/O Ports	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)								
I/O Power Supply		24 VDC 2.0 A (control box) / 24 VDC 1.5 A (tool)								
Programming Envi	ironment	TMflow, flowchart based								
Integrated Camera	Available	5M pixels, color None 5M pixels, color Non						ne		
SEMI S2 Certified*	<sup>2</sup> Available	No	Yes	No	Yes	No	Yes	No	Yes	
Fieldbus Available		EtherNet/IP, PROFINET*3								

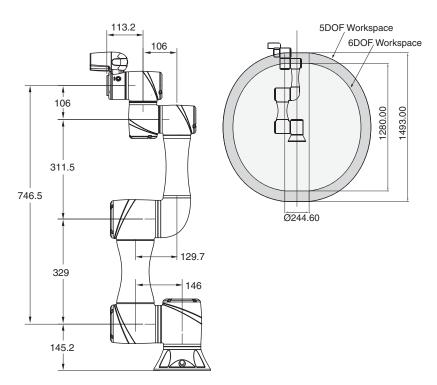
<sup>\*1</sup> If water-soluble cutting oil is present, use a protective sleeve to prevent damage to the robot housing. OMRON offers enhanced joint covers for these applications. Contact your local OMRON representative for more information.

<sup>\*2</sup> SEMI (Semiconductor Equipment and Materials International) is the central global network of manufacturers of micro and nano electronics that issues safety guidelines. SEMI S2 is the most well-known standard in semiconductor manufacturing equipment for Environmental, Health, and Safety (EHS).

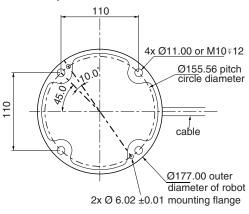
<sup>\*3</sup> A Fieldbus upgrade is available for HW3.2 robots with TMflow v1.80 or higher. Contact your local OMRON representative for more information. The Fieldbus option is not available for SEMI S2 certified robots.

Dimensions (Unit: mm)

#### TM5-700



#### **Footprint**

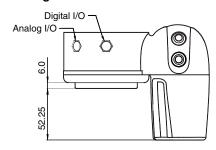


## Flange

M6 ₹8 (x4)

Ø86.67 Ø63.00 h8

P.C.D Ø50.00

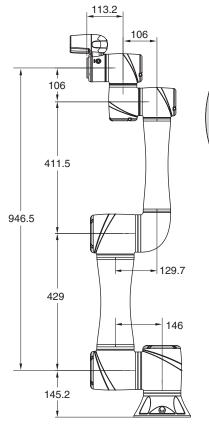


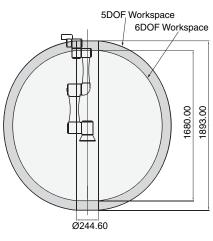
75.00

Ø6.00 ₹6 (H7) x2

Camera

## TM5-900







# Collaborative Robots TM12/14

# 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 allow truly flexible, fast changeover.
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- Capability to integrate with mobile robots enables fully autonomous machine tending and logistics handling applications.
- Food Grade Grease\* option available (supplied with food grade grease).



TM12 TM14

# TM12 and TM14 Ordering Information

Туре	Power Source	Integrated Camera	Reach	SEMI S2 Certified	Food Grade Grease*	Fieldbus	Cable Length	Part Number
					No	No		RT6-1001301
					INO	Yes	3 m	RT6-1001321
		Yes			Yes	No	3 111	RT6-1001331
		res			res	Yes		RT6-1001341
						No	12 m	RT6-1001302
	AC				No	Yes	12 111	RT6-1001322
	AC			No	INO	No		RT6-1011301
				INO		Yes	3 m	RT6-1011321
TM12		No	1300 mm		Vaa	No	3 111	RT6-1011331
		No			Yes	Yes		RT6-1011341
						No	10	RT6-1011302
						Yes	12 m	RT6-1011322
						No		RT6-1101301
		Yes			No	Yes		RT6-1101321
	DC			Yes		NI-	1.5 m	RT6-1101311
		No		No		No		RT6-1111301
		No		No		Yes		RT6-1111321
					NI-	No		RT6-2001101
					No	Yes	3 m	RT6-2001121
		V			V	No	3 m	RT6-2001131
		Yes			Yes	Yes		RT6-2001141
						No	10	RT6-2001102
	40				NI-	Yes	12 m	RT6-2001122
	AC				No	No		RT6-2011101
				No		Yes	•	RT6-2011121
TM14		No	1100 mm		Yes	No	3 m	RT6-2011131
		NO			Yes	Yes		RT6-2011141
						No	10	RT6-2011102
						Yes	12 m	RT6-2011122
						No		RT6-2101101
		Yes			No	Yes		RT6-2101121
	DC			Yes			1.5 m	RT6-2101111
						No		RT6-2111101
		No		No		Yes		RT6-2111121

<sup>\*</sup> Food Grade Grease robots are not FDA certified. They are only suitable for select food-related applications, and require an evaluation and risk assessment of the use environment.

# Items Included with a TM12/TM14 Robot System

Item	Robot	Cable	Robot Stick	Control Box	Calibration Plates	I/O Cables	Landmark	Ground Wire	Jumper Wire	Power cable	SEMI Switch	SEMI ESTOP Cable
Description	TM12, TM14	3, 1.5, or 12 m options	Hand control to move robot	Robot Control Box	Large, small. (Not X model robots)	1 m	Not with X model robots	3 m	3 cm	For Control Box (3 cable: B, G, F)1.8 m	SEMI Emergency OFF, SEMI robots only	SEMI robots only, 3 m
Quantity	1	1	1	1	2	2	2	2	2	1	1	1

# **Part Number Structure**

No.	Item	Specifications	Symbol
(1)		Techman Series	
(0)	Model Time	TM12	1
(2)	Model Type	TM14	2
(0)	Power Source	AC	0
(3)	Power Source	DC	1
(4)	Interveted Comerc	Standard	0
(4)	Integrated Camera	X Model (no camera)	1
(E)(C)	Avec Longto	1300 (TM12)	13
(5)(6)	Arm Length	1100 (TM14)	11
		Standard	0
		Semi	1
(7)	Option	Fieldbus	2
		Food Grade Grease	3
		Food Grade Grease, Fieldbus	4
(0)	Cabla Langth	Standard Length (3 m/1.5 m)*1	1
(8)	Cable Length	Extended Length (12 m)*2	2

<sup>\*1</sup> A 1.5 meter cable is standard for DC models and a 3 meter cable is standard for AC models.

# **Specifications**

Product Name		TN	<b>/</b> 112	TM	12X	TN	114	TM1	I4X		
Power Source		AC	DC	AC	DC	AC	DC	AC	DC		
Weight (kg)		3:	2.8	32	32.5		32.5		.2		
Controller Weigh	it (kg)	13.8	14.5	13.8	14.5	13.8	14.5	13.8	14.5		
Max Payload (kg	)			12			1	4			
Reach (mm)		1300 1100				00					
Mounting		Wall, Table, Ceiling									
Average Speed (	m/s)		•	1.3			1	.1			
Joint 1		±2	70°	±30	60°	±2	70°	±36	60°		
Joint 2, 4, 5 Joint 3	Joint 2, 4, 5	±1	80°	±360°		±180°		±360°			
		±1	166°			±1	63°				
	Joint 6	±270°		±30	60°	±2	70°	±36	60°		
	Joint 1, 2	120°/s									
Joint Speeds	Joint 3	180°/s									
Joint Speeds	Joint 4, 5		18	0°/s		150°/s					
	Joint 6				18	80°/s					
Repeatability (mi	m)				±	0.1					
Ingress Protection	on			IP54 (robot	arm), IP32 (co	ntrol box), IP40	(robot stick)				
Cleanroom Class	3	ISO Class 5									
Operating Tempe	erature 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 St	perating and Storage Environment  No corrosive gases or exposure to water-soluble cutting oil*1										

<sup>\*2</sup> A 12 meter cable is available for all AC models except for the Food Grade Grease units.

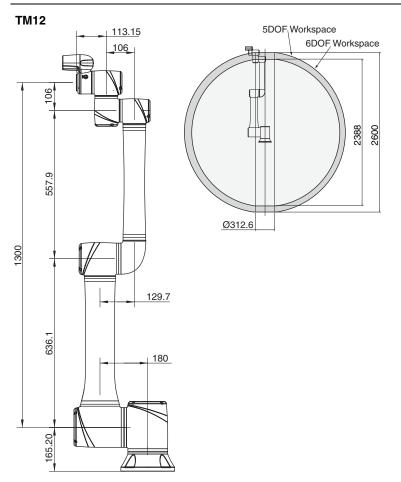
Product Name		TM	112	TM	12X	TN	<b>/114</b>	TM	14X		
Power Source		AC	DC	AC	DC	AC	DC	AC	DC		
Power Supply		100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC	100 to 240 VAC, 50/60 Hz	22 to 60 VDC		
Robot Arm Cable L	ength	3 m or 12 m	1.5 m	3 m or 12 m	1.5 m	3 m or 12 m	1.5 m	3 m or 12 m	1.5 m		
I/O Ports	Control Box	Digital In: 16, Digital Out: 16 Analog In: 2, Analog Out: 1									
I/O Ports	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)									
I/O Power Supply				24 VDC	2.0 A (control be	ox) / 24 VDC 1.	5 A (tool)				
Programming Envi	ronment	TMflow, flowchart based									
Integrated Camera	Available	5M pixe	ls, color	No	one	5M pixe	els, color	No	one		
SEMI S2 Certified*2	Available	No	Yes	No	Yes	No	Yes	No	Yes		
Fieldbus Available		EtherNet/IP, PROFINET*3									

<sup>\*1</sup> 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.

<sup>\*2</sup> SEMI (Semiconductor Equipment and Materials International) is the central global network of manufacturers of micro and nano electronics that issues safety guidelines. SEMI S2 is the most well-known standard in semiconductor manufacturing equipment for Environmental, Health, and Safety (EHS).

<sup>\*3</sup> A Fieldbus upgrade is available for HW3.2 robots with TMflow v1.80 or higher. Contact your local OMRON representative for more information. The Fieldbus option is not available for SEMI S2 certified robots.

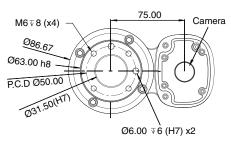
Dimensions (Unit: mm)

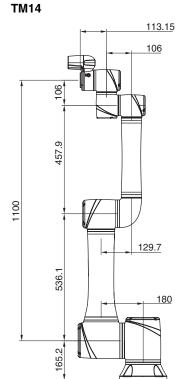


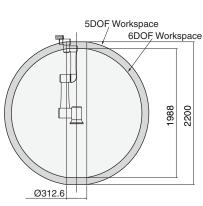
#### 

Flange

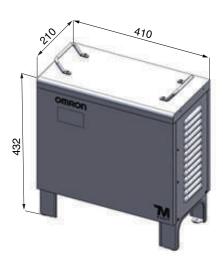
# Flange Digital I/O Analog I/O 9 927 257 259







#### **Control Box**



# **Collaborative Robots**

# **TM16**

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

- The combined 16 kg payload capacity and 900 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.



# **TM16 Ordering Information**

Туре	Power Source	Integrated Camera	Reach	SEMI S2 Certified	Fieldbus	Cable Length	Part Number
		Υ			N		RT6-3009001
	40	N			IN	0	RT6-3019001
	AC	Υ			V	3 m	RT6-3009021
		N			Ť		RT6-3019021
TM16		Υ	900 mm	N			RT6-3109001
		N			N		RT6-3119001
	DC	Υ			V	1.5 m	RT6-3109021
		N			Y		RT6-3119021
		Y		Υ	N		RT6-3109011

## **Global Part Number Structure**

No.	Item	Specifications	Symbol
(1)		Techman Series	
(2)	Model Type	TM16	3
(2)	Power Source	AC	0
(3)	Power Source	DC	1
(4)	late weeterd Oc 22 and	Standard	0
(4)	Integrated Camera	X Model (no camera)	1
(5)(6)	Arm Length	900	9
		Standard	0
(7)	Option	Semi	1
		Fieldbus	2
(8)	Cable Length	Standard Length (1.5 m / 3 m)*1	1

<sup>\*1</sup> A 1.5 meter cable is standard for DC models and a 3 meter cable is standard for AC models.

# Items Included with a TM16 Robot System

Item	Robot	Cable	Robot Stick	Control Box	Calibration Plates	I/O Cables	Landmark	Ground wire	Jumper Wire	Power cable	SEMI Switch	SEMI ESTOP Cable
Description	TM16	3 meter cable for AC unit and 1.5 meter cable for DC unit	Hand control to move robot	Robot Control Box	Large and small. Not with X model robots	1 m	Not with X model robots	3 m	3 cm	For Control Box (3 cable: B, G, F) 1.8 m	SEMI Emergency OFF, SEMI robots only	SEMI robots only, 3 m
Quantity	1	1	1	1	2	2	2	2	2	1	1	1

# **Specifications**

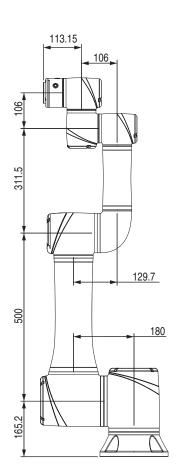
Product Name		TN	116	TM1	16X		
Power Source		AC	DC	AC	DC		
Weight (kg)		32	2.2	31	.9		
Controller Weight	(kg)		-	4.1			
Max Payload (kg)				16			
Reach (mm)			!	900			
Mounting			Wall, Ta	ble, Ceiling			
Average Speed (m	n/s)			1.1			
	Joint 1	±2	70°	±36	60°		
Joint Range	Joint 2, 4, 5	±1	80°	±36	60°		
Joint hange	Joint 3		±	155°			
	Joint 6	±2	70°	±36	60°		
Joint Speeds	Joint 1, 2,		1:	20°/s			
	Joint 3, 4, 5, 6	180°/s					
Repeatability (mm	)	±0.1					
Ingress Protection	1	IP54 (robot arm), IP32 (control box), IP40 (robot stick)					
Cleanroom Class		ISO Class 5					
Operating Temper	ature and Humidity	0 to 50°C, 85% max. (with no condensation)					
Storage Temperat	ure and Humidity	-20 to 60°C, 75% max. (with no condensation)					
Operating and Sto	rage Environment	No corrosive gases or exposure to water-soluble cutting oil.*1					
Motor Power Supp	oly	110 to 240 VAC, 50/60 Hz	20 to 60 VDC	110 to 240 VAC, 50/60 Hz	20 to 60 VDC		
Robot Arm Cable	Length (m)	3	1.5	3	1.5		
I/O Ports	Control Box	Digital In: 16, Digital Out: 16 Analog In: 2, Analog Out: 1					
I/O Ports	Tool	Digital In: 4, Digital Out: 4 Analog In: 1, Analog Out: 0					
I/O Interface	<u>'</u>	COM: 3, HDMI: 1, LAN: 3, USB2.0: 4, USB3.0: 2					
Communication		RS232, Ethernet (master), Modbus TCP/RTU (master & slave)					
I/O Power Supply		24 VDC 2.0 A (control box) / 24 VDC 1.5 A (tool)					
Programming Environment		TMflow, flowchart based					
Integrated Camera		5M pixels, color	None	5M pixels, color	None		
SEMI S2 Certified*	<sup>2</sup> Available	No	Yes	No	No		
Fieldbus Available	)	EtherNet/IP, PROFINET					

<sup>\*1</sup> 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.

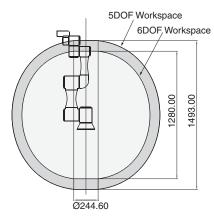
<sup>\*2</sup> SEMI (Semiconductor Equipment and Materials International) is the central global network of manufacturers of micro and nano electronics that issues safety guidelines. SEMI S2 is the most well-known standard in semiconductor manufacturing equipment for Environmental, Health, and Safety (EHS).

Dimensions (Unit: mm)

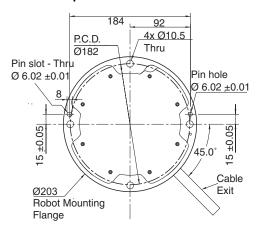
## TM16



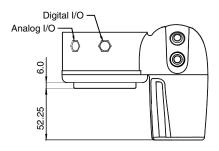
## **Workspace Side View**

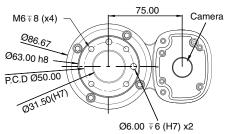


#### **Footprint**

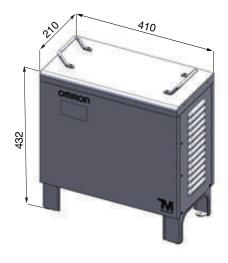


**Flange** 





#### **Control Box**



# **Collaborative Robots**

# **Accessories & Software**

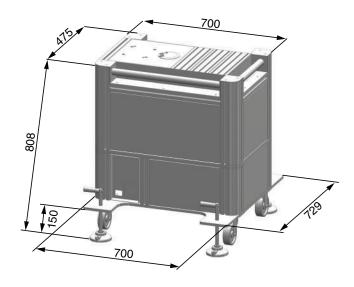
## **Accessories**

Appearance	Product Name	Description	Remarks	Part Number
omron / \tau_t	Landmark	Landmark Robot positioning tool as a reference to the environment.		RT6-A000021
	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 easily move the MWS with the robot to different work cells.	Compatible with OMRON TM5 only.	RT6-A000010
1	Robot stand	Similar to MWS, the robot stand can be easily moved with the robot to different work stations. EtherNet/IP	Height adjustable.Compatible with OMRON TM5 only.	RT6-A000009
S.A.	SSD with cable	128 GB solid state hard drive.	SATA cable included. Recommended for external cameras image logging.	RT6-A000012
1	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
9 0	Robot stick stand	Mounting fixture for the robot stick.	Can be used on desktops, walls, and MWS.	RT6-A000000
	Pneumatic control box	Controls the inputs and outputs and monitors air pressure for Kilews screw driving applications.	Compatible with Kilews screw driving solution kit only. Recommended to attach to the robot stand.	RT6-A000015
	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
	Teach Pendant	A handheld operating teach pendant. 10.1 inch WXGA resolution panel.	NexCobot Teach Pendant model TP-100-1.	RT6-A000020

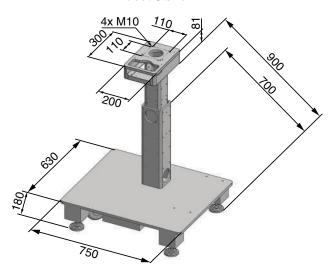
## **Software**

Product Name	Add-On Product Names			
USB Dongle	-	Required for all extra software licenses.	RT6-A000004	-
TMflow	-	Software required to control the cobot. Free download	-	-
	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-S100000
	TM External Vision	License, add-on to TMflow. Required when using eye-to-hand cameras.	-	RT6-S100002
	TM OCR	License, add-on to TMflow. Includes: Text OCR and Number OCR.	-	RT6-S100003
	License, OMRON-TM Operator Suite	License, includes 2 USB Dongles (1 for laptop/PC, and 1 for additional IPC)	-	RT6-S100006
	License, OMRON-TM Operator Runtime	License, includes 1 USB Dongles (for additional IPC)	-	RT6-S100007
	License, TMStudio Palletizing Wizard Export	License, includes 1 USB Dongles (for additional IPC)	-	RT6-S100008
	License, OMRON-TM Operator Runtime and Palletizing Wizard Export	License, includes 1 USB Dongles (for additional IPC)	-	RT6-S100009
TMflow Editor	-	License, provides a convenient way to open and edit project offline.	RT6-S200001	-
	TMflow Editor - Offline AOI	License, add-on to TMflow Editor. Enables TMflow Editor to offline edit a TMflow project that includes AOI vision.	-	RT6-S100005

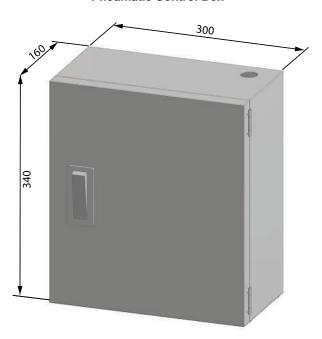
## Mobile Work Station (MWS)



**Robot Stand** 



**Pneumatic Control Box** 



# Recommended Plug & Play Hardware

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description	
	4		Adaptive Gripper 2-Finger 85/140 for OMRON TM robot	85 kit: AGC- OMRON-KIT-85 140 kit: AGC- OMRON-KIT-140	A 2-finger adaptive gripper that can adapt to parts of various shapes and sizes. Comes in two stroke options – 85 mm and 140 mm. Each kit includes: - End effector coupling kit - 10 m communication cable - RS485 to RS232 converter - RS485 to USB converter - Screw kit - Quick start guide	
	¥		Hand-E gripper for OMRON TM robot	HND-OMRON- KIT	A 2-finger parallel gripper with an IP67 rating. 50 mm stroke. Each kit includes: - Fingertip starting kit - End effector coupling kit - 10 m communication cable - RS485 to RS232 converter - RS485 to USB converter - Screw kit - Quick start guide	
				VAC-OMRON- EPICK-KIT1	A vacuum gripper that uses an integrated vacuum generator. Each kit includes: - Basic gripper unit	
	4		EPick for OMRON TM robot	VAC-OMRON- EPICK-KIT2	- End effector coupling kit - 10 m communication cable - RS485 to RS232 converter - RS485 to USB converter - Quick start guide - Vacuum cup(s): 1.5 bellows, 55 mm dia.	
		Robotiq	Robotiq		VAC-OMRON- EPICK-KIT4	KIT1 includes 1 vacuum cup KIT2 has a suction system for 2 cups KIT4 has a suction system for 4 cups
Grippers	•			VAC-OMRON- AIRPICK-KIT1	A vacuum gripper that uses an external pneumatic supply. Each kit includes: - Basic gripper unit - Tubing 8 mm x 8 m	
			AirPick for OMRON TM robot	VAC-OMRON- AIRPICK-KIT2	- End effector coupling kit - RS485 to RS232 converter - RS485 to USB converter - Quick start guide - Vacuum cup(s): 1.5 bellows, 55 mm dia.	
				VA-OMRON- AIRPICK-KIT4	KIT1 includes 1 vacuum cup KIT2 has a suction system for 2 cups KIT4 has a suction system for 4 cups	
			I/O Coupling	IO-CPL- OMRON-KIT	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 - 16G USB Stick	
	40		Dual-Grip Adapter Plate	AGC-APL-159- 002	Adapter plate and mounting screws to mount two grippers onto the OMRON TM robot.	
	*		2F-85 Dual kit for OMRON Robots 2F-140 Dual kit for OMRON Robots HAND-E Dual kit for OMRON Robots	OMRON-DUAL- AGC-85 OMRON-DUAL- AGC-140 OMRON-DUAL- HND	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	
	¥	OnRobot	RG2 Gripper	102012	Electric 2-finger gripper. Each kit includes: - RG2 Gripper - Fingertip adapters (pre-mounted) - Integrated Quick OnRobot Changer (tool side) - Torx key	

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 is 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 for mounting on the robot:  - single Quick OnRobot Changer (robot side)											
					- dual Quick OnRobot Changer (robot side) - HEX QC Required for connecting to the robot:											
	¥	OnRobot	RG6 Gripper	102021	- connection kit with compute box  Electric 2-finger gripper with larger stroke. Each kit includes: - RG2 Gripper - Fingertip adapters (pre-mounted) - Integrated Quick OnRobot Changer (tool side) - Torx key											
	<b>.76</b>													VG10 Electric Vacuum Gripper	101661	Flexible and adjustable electrical vacuum gripper. Each kit includes: - VG10 Gripper - 30 mm dia. suction cups x 16 (pre-mounted) - Integrated Quick OnRobot Changer (tool side) - 40 mm dia. suction cups x 4 - 15 mm dia. suction cups x 4 - 15 mm dia. suction cups x 4 - Blind screws x16 - Positioning arrows - Torx key
	1					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 gripper payload in kilos, featuring the ability to lift a wide range of flat, smooth, shiny or perforated surfaces. Options are:  - Gecko SP1 (with 35 mm pad)  - Gecko SP3 (with 60 mm pad)  - Gecko SP5 (with 75 mm pad)								
Grippers			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 5 m - UTP cable 0.5 m - I/O cable 0.3 m - Cable management hook/loop											
									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 gripper design automatically centers workpieces, with payload up to 15 kg. It includes:  - 3FG15  - Torx Key T20  - 3 x Steel Fingertip 13 dia.  - 3 x Rubber Fingertip 16.5 dia.					
	88															
	A		F2G7 Parallel Gripper	106376	This parallel gripper is used for tight spaces and demanding payloads. Ready for use almost anywhere, with IP67 rating for harsh environments and ISO Class 5 certification for cleanroom use.											
	Ther		MG10 Magnet Gripper	105202	This versatile electric magnetic gripper is used for safe and precise collaborative applications. Built-in intelligence with easily adjustable force and part detection ensures reliable handling of a wide range of part sizes and weights.											
			VGC10	102844	This flexible electric vacuum gripper has changeable suction cup options for unlimited customization possibilities. It's smaller and half the weight of VG10 but with the same payload. It includes:  - 40 mm dia. Vacuum Cups  - 30 mm dia. Vacuum Cups  - 15 mm dia. Vacuum Cups  - Fittings  - Push-in fittings  - M6 x 10 mm Screws  - Blind Screws  - Torx T30  - 3 mm hex keys  - Adapter Plate  - Extension pipe 50 mm											

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description
			VGP20 Vacuum Gripper	107242 107567	This powerful electric vacuum gripper is ideal for cardboard box palletizing. Built-in intelligence and multichannel functionality ensures failsafe, flexible operation. The following attachment is required to prevent mechanical interference with camera module: - VGP20 Extender 50 mm
	P,-	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
	æ,		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
Grippers		Schunk	Co-act EGP-C 40-N-N-TMID Co-act EGP-C 40-N-N-TMEK Co-act EGP-C 64-N-N-TMEK	1374363 1375931 1400578	Electric 2-finger parallel gripper certified for collaborative operation. Actuation and communication via 24 VDC and digital I/O.  Each kit includes: - Co-act EGP-C gripper - Assembly and Operating Manual - Accessory pack
	V		Co-act AUB EGP 40/12 Co-act AUB EGP 40/24 AUB Co-act EGP 64/20 AUB Co-act EGP 64/40	1401285 1401286 1401294 1401297	Gripping fingers for Co-act EGP-C.
		SMO.	Air Gripper	JMHZ2X7400B- TM	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 electrical wiring M8 connector. Each kit includes: - Air gripper unit - Parallel pin (6 x 10 mm) x 1 - Hexagon socket head cap screw (M6 x 23) x 4 - Protective cover x 1 set (valve side, S.W side) - Hexagon socket head cap screw (M4x10) x 4 - Tube for piping (TU0425BU) 2 m - User manual
		SMC	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  - 6 x 10, parallel pin  - 8 pcs x M6 x 10, Hexagon socket head cap screw  - 2 m, Polyurethane tube: TU0604  - Plug 4 pcs (cup mounting flange)  - 4 pcs x suction cup with adapter (suction cup)
	la de la companya de		Compact Gripper RLSH-TM	RLSH-A20D1N- L1-FY2-TM	
		CKD	Long Stroke Gripper RHLF-TM	RHLF-16CS- FY2-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°, it is designed with consideration for safety and supports the introduction of collaborative robots by all
			3-way Finger Gripper RCKL-TM	RCKL-16CS- FY3-TM	customers.

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description
	(±)	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.
	3		Manual Robotic Hand Changer	Master Cylinder SXR0030-M; Adapter Plate SXRZ0030-MF4; Tool Adapter SXR0030-TF4	Manual Robotic Hand Changer enables quick, intuitive change of robotic tools. Technical knowledge is not required operators with diverse skills levels can easily use the Manual Robotic Hand Changer.  Adapter Plate includes: - Parallel Pin dia. 5x8 - Parallel Pin dia. 6x12 - 4 Hexagonal Socket Low Head Cap Screws (M6x1x10) - 4 Hexagonal Socket Head Cap Screws (M5x0.8x14)
Tool Changers	0		Quick OnRobot Changer Robot side 4.5 A	104277	Manual tool changer to attach on the robot's end-of-arm. Either the Quick OnRobot Changer (robot side) or the Dual Quick OnRobot Changer must be purchased for use of all OnRobot grippers. Each kit includes: - Quick OnRobot Changer robot side - Screws - Torx key
	40	OnRobot	Quick OnRobot Changer - Tool side	102014	Manual tool changer to attach on the tool side. (All OnRobot grippers have this component integrated, so this is only necessary when user is developing their own tool.)
	99	Olhobot	Quick OnRobot Changer Kit 4.5 A	105925	Each kit includes: - Quick OnRobot Changer (robot side) x 1 - Quick OnRobot Changer (tool side) x 2 - Torx key - Screws and pins
	Ö		Dual Quick OnRobot Changer 4,5A	104293	Manual tool changer to attach on the robot's end-of-arm for dual gripper configuration. Either the Quick OnRobot Changer (robot side) or the Dual Quick OnRobot Changer must be purchased for use of all OnRobot grippers.  Each kit includes: - Dual Quick OnRobot Changer - Screws - Torx key
3D Bin	۴,	Pick-it	Pick-it M	PI-M-2.0	Plug & Play 3D camera and software for picking objects sized 50x50x10 mm 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
Picking	*		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
	A	Kilews	Screw Driving Solution Kit	-	Kilews screwdriver kit and pneumatic control box. Each kit includes: - Screwdriver SKD-BN512LM - Power Controller SKP-32BC-60W - Flange E31700-3 - Air Nozzle KD-TM-B500 - Signal box - Pneumatic control box - Installation guide
Screw Driving		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 bits 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

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description	
			GigE camera, color, 5 MP, CMOS 2/3 inch, 23 fps	acA2440-20gc, Global Shutter		
			GigE camera, mono, 5 MP, CMOS 2/3 inch, 23 fps	acA2440-20gm, Global Shutter		
			GigE, camera, color, 10 MP, CMOS 1/2.3 inch, 10 fps	acA3800-10gc, Rolling Shutter	External camera for eye-to-hand robot applications.Maximum 2	
	<b>6</b>		GigE, camera, mono, 10 MP, CMOS 1/2.3 inch, 10 fps	acA3800-10gm, Rolling Shutter	external cameras per robot.	
			GigE, camera, color, 12.2 MP, CMOS 1/1.7 inch, 8 fps	acA4024-8gc, Rolling Shutter		
		Basler	GigE, camera, mono, 12.2 MP, CMOS 1/1.7 inch, 8 fps	acA4024-8gm, Rolling Shutter		
			GigE camera, color, 5 MP, CMOS 1/2.5 inch, 14 fps	acA2500-14gc, Rolling Shutter		
Vision			GigE camera, mono, 5 MP, CMOS 1/2.5 inch, 14 fps	acA2500-14gm, Rolling Shutter		
	<u></u>		GigE camera, color, 5 MP, CMOS 1 inch, 21 fps	acA2500-20gc, Global Shutter	External camera for eye-to-hand robot applications.Maximum 2 external cameras per robot.	
			GigE camera, mono, 5 MP, CMOS 1 inch, 21 fps	acA2500-20gm, Global Shutter		
		Canon	Canon Industrial Imaging Platform Vision Edition for OMRON model	Vision Edition-T	Vision Edition-T is a dedicated model for Omron's TM series of collaborative robots. The unit uses network camera pan-tilt-zoom functionality to perform image processing over a wider range, sending these results to the robot. This product provides more recognition and image processing of robot surroundings, more reach and angle of view, and further expansion of robot abilities.	
		ATI	Axia80	9105-TM-Axia80	Six-axis force/torque sensor with EtherCAT communication. Each kit includes: - Interface plate - Power and Ethernet cable - Digital delivery of calibration documents and user manual	
Force Sensor		Robotiq	FT-300	FTS-300- OMRON-KIT	Six-axis force/torque sensor with RS485 Serial Communication. Each kit includes: - Coupling - RS485 to RS232 converter - Power and communication cable with USB adapter - Screw kit	
Conico	6	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	ŧ	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	
	(SCHOOL STATE OF STAT		EtherCAT I/O Expansion Modules KIT	EPS - 9905+6000+203 2+1132	A Kit that includes: chassis w/ EtherCAT ports and voltage input, 32-channel digital output module, 32-channel digital input module.	
	1	ADLINK	EtherCAT I/O Expansion Modules (DO Module)	EPS-2032	32-channel digital output module.	
Connectivity	Particular		EtherCAT I/O Expansion Modules (DI Module)	EPS-1132	32-channel digital input module.	
	73144791		Serial Device Server EKI-1524- CE	EKI-1524-CE	External device with serial ports that communicates with the robot via TCP/IP.	
	September 1	Advantech	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
	3		FHS-C-SET TM5 (TM5-700 & TM5-900)	83693500	Cable management dress pack. Each kit includes: - Conduit (Cable routing hose, Length:2 m, Interior dia.: ~21
	(6)		FHS-C-SET TM12 / TM14 (TM12 & TM14)	83693501	mm) - 4 x Attachment straps - 2 x End plugs - Cable insertion tool - Installation instructions
Cable Management		Murrplastik	FHS-RS-SET TM5 (TM5-700 & TM5-900	83693506	Cable management dress pack. Each kit includes:
	@		FHS-RS-SET TM12 / TM14 (TM12 & TM14)	83693507	- Conduit (Cable routing hose, Length:2 m, Interior dia.: ~21 mm) - 2 x Conduit clamps - Self-retracting hose guide (2 x Ball joint fixing, Ball joint strain relief, Feedback system, System holder) - Tool-end clamp - End sleeve - Cable puller - Installation instructions
Simulation Software	Ľ.	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.
Teach Pendant		NexCobot	TP-100-1	TP Package- Plug&Play for OM	A handheld operating teach pendant, well-integrated with OMRON TM Robot. Features an ergonomic housing with safety elements, 10.1 inch WXGA resolution panel and multi-touch p-cap.

# **Related Manuals**

Cat. No.	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
1662	TM Operator Platform Manual
1664	TM Script Language Manual
1848	Expression Editor and Listen Node Reference Guide
1853	TM Conveyor Tracking Manual

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