Collaborative Robots TM5

Collaborative robot for assembly, packaging, inspection, and logistics

- Designed to promote a safe and harmonious workplace between humans and machines.
- Easy-to-use graphical programming environment for quick startup and operation.
- Built-in vision-based robot control enables visual serving, inspection, and measurement operations.
- TMvision and Landmark 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).



TM5-700 TM5-900

TM5 Ordering Information

Туре	Power Source	Integrated Camera	Reach	SEMI S2 Certified	Food Grade Grease*	Fieldbus	Cable Length	Part Number
					No	No		RT6-0007001
					No	Yes	3 m	RT6-0007021
		Yes			Yes	No	3111	RT6-0007031
		res			res	Yes		RT6-0007041
						No	12 m	RT6-0007002
	AC				No	Yes	12111	RT6-0007022
	AC			No	INO	No		RT6-0017001
				INO		Yes	3 m	RT6-0017021
		No	700 mm		Yes	No	3111	RT6-0017031
		INO			res	Yes		RT6-0017041
						No	12 m	RT6-0017002
						Yes	12 111	RT6-0017022
						No		RT6-0107001
		Yes			No	Yes		RT6-0107021
	DC			Yes		No	1.5 m	RT6-0107011
		No		No		INO		RT6-0117001
TM5				INO		Yes		RT6-0117021
CIVIT					No	No		RT6-0009001
					INO	Yes	3 m	RT6-0009021
		Yes			Yes	No		RT6-0009031
		res			res	Yes		RT6-0009041
						No	12 m	RT6-0009002
	AC				No	Yes	12111	RT6-0009022
	AC			No	No	No		RT6-0019001
				INO		Yes	3 m	RT6-0019021
		No	900 mm		Yes	No	3 m	RT6-0019031
		INO			res	Yes		RT6-0019041
						No	10	RT6-0019002
	DC					Yes	12 m	RT6-0019022
						No		RT6-0109001
		Yes			No	Yes		RT6-0109021
		oc		Yes		1.5 m	RT6-0109011	
				No		No		RT6-0119001
		No		No		Yes		RT6-0119021

^{*} 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)	Devices Courses	AC	0
(3)	Power Source	DC	1
(4)	Intervented Company	Standard	0
(4)	Integrated Camera	X Model (no camera)	1
(5)(0)	A Ith	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)	Calala I an atta	Standard Length (1.5 m / 3 m)*1	1
(8)	Cable Length	Extended Length (12 m)*2	2

^{*1} A 1.5 meter cable is standard for DC models and a 3 meter cable is standard for AC models.

^{*2} A 12 meter cable is available for all AC models except for the Food Grade Grease units.

Specifications

Product Name		TM5	-700	TM5	(-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	.3	
Controller Weight (I	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	le, Ceiling				
Average Speed (m/s	5)		1	1.1			1	1.4		
	Joint 1	±2	70°	±3	60°	±2	70°	±36	60°	
Joint Range	Joint 2, 4, 5	±18	30°	±3	60°	±18	30°	±36	60°	
come riange	Joint 3		±15							
	Joint 6	±270° ±360° ±270°					±36	60°		
Joint Speeds	Joint 1, 2, 3	180°/s								
	Joint 4, 5, 6				22	5°/s				
Repeatability (mm)					±0	.05				
Ingress Protection				IP54 (robot a	arm), IP32 (coi	ntrol box), IP40	(robot stick)			
Cleanroom Class					ISO C	lass 3				
Operating Tempera	ture and Humidity			0 to 50°	C, 85% max.	with no conde	nsation)			
Storage Temperatu	re and Humidity			-20 to 60	°C, 75% max.	(with no conde	ensation)			
Operating and Stora	age Environment		١	No corrosive ga	ses or exposu	re to water-solu	uble cutting oi	l.*1		
Motor Power Suppl	у	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 Lo	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 Out: 16 Analog Out: 1				
I/O POILS	Tool					Digital Out: 4 Analog Out: 0				
I/O Interface				COM: 3, H	IDMI: 1, LAN:	3, USB2.0: 4, I	USB3.0: 2			
Communication		RS232, Ethernet (master), Modbus TCP/RTU (master & slave), PROFINET (optional), EtherNet/IF					P (optional)			
I/O Power Supply				24 VDC 2	.0 A (control b	ox) / 24 VDC 1	.5 A (tool)			
Programming Envir	onment				TMflow, flov	chart based				
Integrated Camera	Integrated Camera Available		5 MP, color None			5 MP, color			None	
SEMI S2 Certified*2	Available	No	Yes	No	Yes	No	Yes	No	Yes	
Fieldbus Available					EtherNet/IP,	PROFINET*3		,		

^{*1} 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.

^{*2} 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).

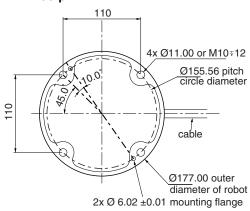
^{*3} A Fieldbus upgrade is available for HW3.2 robots with TMflow v1.80 or higher. Contact your local OMRON representative for more information. The Fieldbus option is not available for SEMI S2 certified robots.

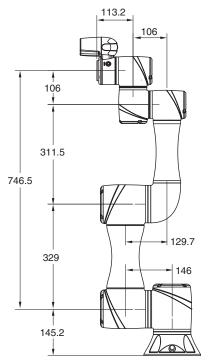
Dimensions (Unit: mm)

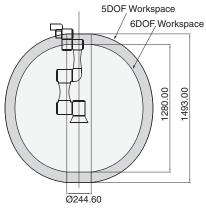
TM5-700

Workspace Side View

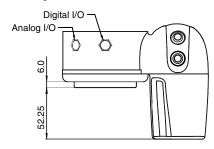
Footprint





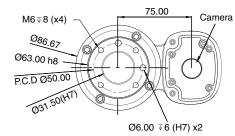


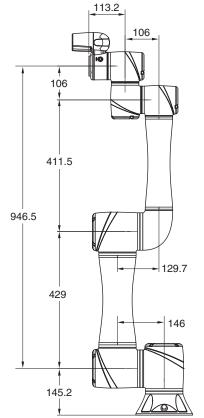
Flange

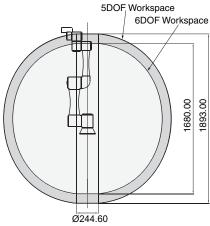


TM5-900

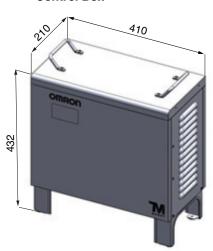
Workspace Side View







Control Box



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.
- 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).



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
					No	Yes		RT6-1001321
		Yes			V	No	3 m	RT6-1001331
		Yes			Yes	Yes		RT6-1001341
						No	40	RT6-1001302
	40				NI-	Yes	12 m	RT6-1001322
	AC				No	No		RT6-1011301
				No		Yes		RT6-1011321
TM12			1300 mm		Yes	No	3 m	RT6-1011331
		No			Yes	Yes		RT6-1011341
						No	40	RT6-1011302
						Yes	12 m	RT6-1011322
					†	No	1.5 m	RT6-1101301
		Yes	_		No	Yes		RT6-1101321
	DC			Yes				RT6-1101311
				Ne		No		RT6-1111301
		No		No		Yes		RT6-1111321
					No Yes	No		RT6-2001101
						Yes	3 m	RT6-2001121
						No		RT6-2001131
		Yes				Yes		RT6-2001141
						No	40	RT6-2001102
	4.0					Yes	12 m	RT6-2001122
	AC				No	No		RT6-2011101
				No		Yes		RT6-2011121
TM14		N	1100 mm		V	No	3 m	RT6-2011131
		No			Yes	Yes		RT6-2011141
						No	40	RT6-2011102
	DC					Yes	12 m	RT6-2011122
			1			No		RT6-2101101
		Yes			No	Yes		RT6-2101121
				Yes			1.5 m	RT6-2101111
				N-	1	No		RT6-2111101
		No		No		Yes	1	RT6-2111121

^{*} 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
(2)	Power Source	AC	0
(3)	Fower Source	DC	1
(4)	Interveted Company	Standard	0
(4)	Integrated Camera	X Model (no camera)	1
(E)(C)	A was I amouth	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)	Cable Length	Standard Length (3 m/1.5 m)*1	1
(8)	Cable Length	Extended Length (12 m)*2	2

^{*1} A 1.5 meter cable is standard for DC models and a 3 meter cable is standard for AC models.

^{*2} A 12 meter cable is available for all AC models except for the Food Grade Grease units.

Specifications

Product Name		TN	Л12	ТМ	12X	TN	114	ТМ	14X	
Power Source		AC	DC	AC	DC	AC	DC	AC	DC	
Weight (kg)		32	2.8	32	2.5	32	2.5	32	2.2	
Controller Weight	(kg)	13.8	14.5	13.8	14.5	13.8	14.5	13.8	14.5	
Max Payload (kg)			1	2			1	4		
Reach (mm)			13	00			11	00		
Mounting					Wall, Tab	le, Ceiling				
Average Speed (n	n/s)		1	.3			1.	.1		
	Joint 1	±2	70°	±3	60°	±2	70°	±3	60°	
Joint Range	Joint 2, 4, 5	±1	80°	±3	60°	±1	80°	±3	60°	
Joint hange	Joint 3		±10	66°			±16	63°		
	Joint 6	±2	70°	±3	60°	±2	±270° ±360°			
	Joint 1, 2				120)°/s				
Joint Speeds	Joint 3				180	·/s				
Joint Speeds	Joint 4, 5		180)°/s						
	Joint 6				180)°/s				
Repeatability (mm	1)				±C).1				
Ingress Protection	1			IP54 (robot	arm), IP32 (cor	ntrol box), IP40	(robot stick)			
Cleanroom Class					ISO C	lass 3				
Operating Temper	rature and Humidity			0 to 50	0°C, 85% max. (with no conden	isation)			
Storage Temperat	ure and Humidity			-20 to 6	60°C, 75% max.	(with no conde	nsation)			
Operating and Sto	orage Environment		,	No corrosive g	ases or exposu	re to water-solu	ıble cutting oil*1		,	
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	Length	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	6, Digital Out: 16	Analog In: 2, A	Analog Out: 1			
I/O FOILS	Tool			Digital In: 4	1, Digital Out: 4	Analog In: 1, Ar	nalog Out: 0			
I/O Interface				COM: 3,	HDMI: 1, LAN:	3, USB2.0: 4, L	JSB3.0: 2			
Communication		RS232	, Ethernet (mast	er), Modbus TO	CP/RTU (master	ster & slave), PROFINET (optional), EtherNet/IP (optional)				
I/O Power Supply				24 VDC	2.0 A (control be	ox) / 24 VDC 1.	5 A (tool)			
Programming Env	vironment				TMflow, flow	chart based				
Integrated Camera	a Available	5 MP	, color	No	one	5 MP	, color	No	one	
SEMI S2 Certified	² Available	No	Yes	No	Yes	No	Yes	No	Yes	
Fieldbus Available	e				EtherNet/IP,	PROFINET*3				
							- · · · - · · · · · ·			

^{*1} 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.

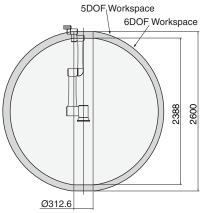
^{*2} SEMI (Semiconductor Equipment and Materials International) is the central global network of manufacturers of micro and nano electronics that issues safety guidelines. SEMI S2 is the most well-known standard in semiconductor manufacturing equipment for Environmental, Health, and Safety (EHS).

^{*3} 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.

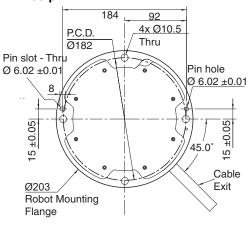
Dimensions (Unit: mm)

TM12 Worksp

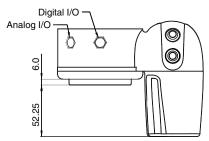
Workspace Side View



Footprint



Flange



M6 v 8 (x4) 75.00 Camera

086.67

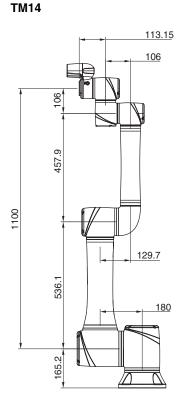
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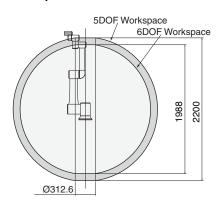
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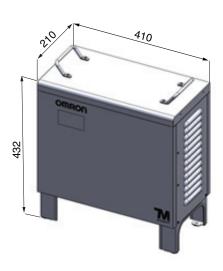
06.00 v 6 (HT) x2

Workspace Side View





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
		Y			N		RT6-3009001
	AC	N		N N	IN	0	RT6-3019001
	AC	Y			V	3 m	RT6-3009021
		N	900 mm		ľ		RT6-3019021
TM16		Y			N Y		RT6-3109001
		N				1.5 m	RT6-3119001
	DC	Y					RT6-3109021
		N					RT6-3119021
		Y		Y	N		RT6-3109011

Global Part Number Structure

RT6 - | | | | | | | | | | | | | |

No.	Item	Specifications	Symbol
(1)		Techman Series	
(2)	Model Type	TM16	3
(0)	Power Source	AC	0
(3)	Power Source	DC	1
(4)	Integrated Camera	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

^{*1} 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	ТМ	16X				
Power Source		AC	DC	AC	DC				
Weight (kg)		32	2.2	3-	1.9				
Controller Weight	(kg)		14	.1					
Max Payload (kg)		16							
Reach (mm)		900							
Mounting			Wall, Tab	le, Ceiling					
Average Speed (m	n/s)	1.1							
	Joint 1	±2	70°	±3	60°				
Joint Range	Joint 2, 4, 5	±1.	±180° ±360°						
comit riunge	Joint 3		±1	55°					
	Joint 6	±2	70°	±3	60°				
Joint Speeds	Joint 1, 2	120°/s							
	Joint 3, 4, 5, 6	180°/s							
Repeatability (mm	•		±C						
Ingress Protection	1		IP54 (robot arm), IP32 (cor	itrol box), IP40 (robot stick)					
Cleanroom Class			ISO C	lass 3					
	ature and Humidity		0 to 50°C, 85% max. (,					
Storage Temperat		-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	bly	110 to 240 VAC, 50/60 Hz	22 to 60 VDC	110 to 240 VAC, 50/60 Hz	22 to 60 VDC				
Robot Arm Cable	Length (m)	3	1.5	3	1.5				
I/O Ports	Control Box		Digital In: 16, Analog In: 2,						
I/O POILS	Tool		Digital In: 4, Analog In: 1,						
I/O Interface			COM: 3, HDMI: 1, LAN:	3, USB2.0: 4, USB3.0: 2					
Communication		RS232, Ethernet (master), Modbus TCP/RTU (master	& slave), PROFINET (option	nal), EtherNet/IP (optional)				
I/O Power Supply		24 VDC 2.0 A (control box) / 24 VDC 1.5 A (tool)							
Programming Env	ironment		TMflow, flowchart based						
Integrated Camera	Available	5 MP, color	None	5 MP, color	None				
SEMI S2 Certified	² Available	No	Yes	No	No				
Fieldbus Available	•		EtherNet/IP,	PROFINET	,				

^{*1} 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.

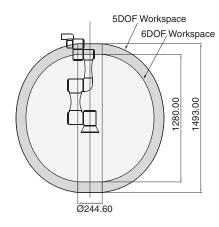
^{*2} SEMI (Semiconductor Equipment and Materials International) is the central global network of manufacturers of micro and nano electronics that issues safety guidelines. SEMI S2 is the most well-known standard in semiconductor manufacturing equipment for Environmental, Health, and Safety (EHS).

Dimensions (Unit: mm)

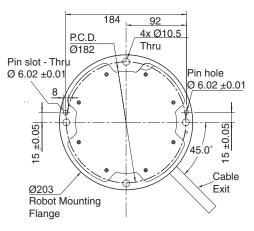
TM16

113.15

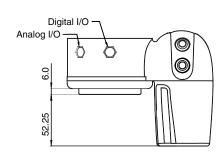
Workspace Side View

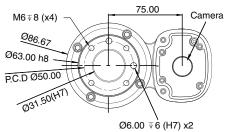


Footprint

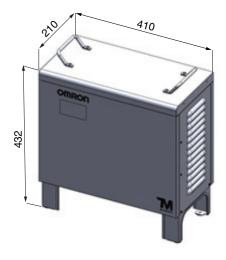


Flange





Control Box



Collaborative Robots TM20

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

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



TM20 Ordering Information

Туре	Power Source	Integrated Camera	Reach	Fieldbus	Cable Length	Part Number
				N	0	RT6-4001301
		Υ	1300 mm	Y	3 m	RT6-4001321
		Y		N	12 m	RT6-4001302
	AC			Y	12 111	RT6-4001322
				N	0	RT6-4011301
TMOO		N		Y	3 m	RT6-4011321
TM20		N		N		RT6-4011302
				Y	12 m	RT6-4011322
				N		RT6-4101301
	DC	Y		Y	1.5	RT6-4101321
	DC	N.I		N	1.5 m	RT6-4111301
		N		Υ		RT6-4111321

Global Part Number Structure

RT6 - 🗆 🗆 🗆 🗆 🗆 🗆 🗆

No.	Item	Symbol	
(1)		Techman Series	<u>.</u>
(2)	Model Type	TM20	4
(0)	Power Source	AC	0
(3)	Power Source	DC	1
	lete ended Operation	Standard	0
(4)	Integrated Camera	X Model (no camera)	1
(5)(6)	Arm Length	1300	13
		Standard	0
(7)	Option	Semi	1
		Fieldbus	2
(8)	Oakla Laaath	Standard Length (1.5 m / 3 m)*1	1
	Cable Length	Extended Length (12m)*2	2

^{*1} A 1.5 meter cable is standard for DC models and a 3 meter cable is standard for AC models.

^{*2} A 12 meter cable is available for all AC models.

Items Included with a TM20 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	TM20	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	120	ТМ	20X			
Power Source		AC	DC	AC	DC			
Weight (kg)			3	-	33			
Controller Weight (ka)			ļ.1	-			
Max Payload (kg)			20					
Reach (mm)			13	600				
Mounting			Wall, Tab	le, Ceiling				
Average Speed (m/	s)		1	.3				
Joint 1		±2	70°	±3	60°			
Joint 2, 4, 5		±1	80°	±3	60°			
Joint Range	Joint 3		±1	66°				
	Joint 6	±2	70°	±3	60°			
	Joint 1, 2		90	°/s				
	Joint 3		120)°/s				
Joint Speeds	Joint 4		150°/s					
	Joint 5	180°/s						
	Joint 6	225°/s						
Repeatability (mm)		±0.1						
Ingress Protection		IP54 (robot arm), IP32 (control box), IP40 (robot stick)						
Cleanroom Class		ISO Class 3						
Operating Tempera	ture and Humidity	0 to 50°C, 85% max. (with no condensation)						
Storage Temperatu	re and Humidity		-20 to 60°C, 75% max. (with no condensation)					
Operating and Stor	age Environment	١	lo corrosive gases or exposu	ire to water-soluble cutting oi	l.			
Motor Power Suppl	у	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			
UO Danta	Control Box			Digital Out: 16 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), PROFINET (option	nal), EtherNet/IP (optional)			
I/O Power Supply			24 VDC 2.0 A (control b	ox) / 24 VDC 1.5 A (tool)				
Programming Envi	ronment		TMflow, flow	chart based				
Integrated Camera	Available	5 MP	5 MP, color None					
SEMI S2 Certified*1	Available	No	Yes	No	No			
Fieldbus Available			EtherNet/IP	PROFINET				

^{*1} 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).

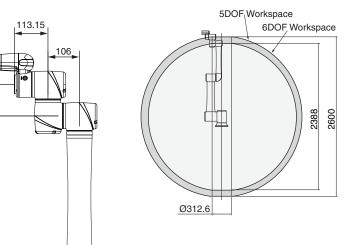
Dimensions (Unit: mm)

TM20/20X

106

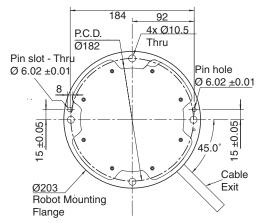
Workspace Side View

Footprint

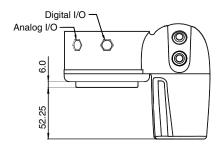


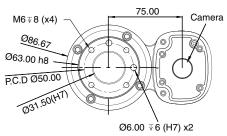
129.70

180



Flange





Control Box



165.20

Accessories & Software

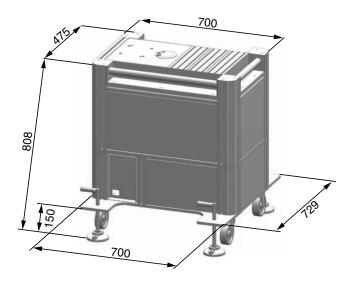
Accessories

Appearance	Product Name	Description	Remarks	Part Number
omron √√√√	Landmark	Robot positioning tool as a reference to the environment.	Two included with purchase of a robot. Not included with X model robots	RT6-A000021
To the second	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
	SSD with cable	128 GB solid state hard drive.	SATA cable included. Recommended for external cameras image logging.	RT6-A000012
->	Kit, calibration set with additional pin	Toolkit for teaching a precise tool center point (TCP) that can be used for manual workspace calibration within TMvision.	Required for TCP and manual vision calibration.	RT6-A000002
(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
	Polarizer Light Module	Improves the reflection caused by the robot's own light source on the surface of highly reflective objects.	For TM5/12/14/16/20 models with HW 3.2 or above.	RT6-A000022
	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

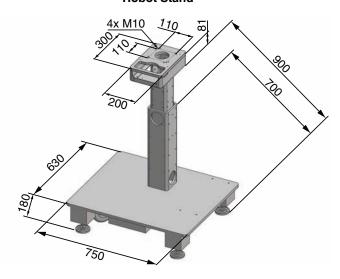
Software

Product Name	Add-On Product Names	Remarks	Part Number	Add-On Part Numbers
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

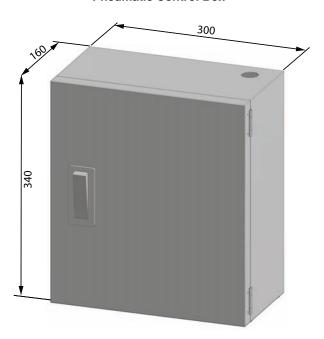
Mobile Work Station (MWS)



Robot Stand



Pneumatic Control Box



Recommended Plug & Play Hardware

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description										
	d		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	- Basic gripper unit - 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.											
		Robotia	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 - End effector coupling kit										
			AirPick for OMRON TM robot	VAC-OMRON- AIRPICK-KIT2	- End effection Coupling Rit - 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.									
	1		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										

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description
			RG2 Gripper	102012	Electric 2-finger gripper. Each kit includes: - RG2 Gripper - Fingertip adapters (pre-mounted) - Integrated Quick OnRobot Changer (tool side) - Torx key
			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
	8 8				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:
			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
			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 - Blind screws x16 - Positioning arrows - Torx key
Grippers	1	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 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)
	© =		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 0.5 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.
			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 11 mm to 118 mm, depending on cup used.
	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.
	abot		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.

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description
		OnRobot	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
			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
		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
		Communic	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
			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.
		SMC	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
			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)

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description							
			Compact Gripper RLSH-TM	RLSH-A20D1N- L1-FY2-TM								
Grippers		CKD	CKD	CKD	CKD	CKD	CKD	CKD	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.							
		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.							
			Manual Robotic Hand Changer	Master Cylinder SXR0030-M; Adapter Plate SXR20030-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			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							
			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.)							
		OnRobot	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							
			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	0	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	, io	Pick-it	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							

Category	Appearance	Company	Product Name	Manufacturer SKU Number*	Description	
	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	0	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	
			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	
	<u></u>		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	ROMOTIO	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	
Serisui	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		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	

			-	Manufacturer	
Category	Appearance	Company	Product Name	SKU Number*	Description
			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.
		ADLINK	EtherCAT I/O Expansion Modules (DO Module)	EPS-2032	32-channel digital output module.
Connectivity			EtherCAT I/O Expansion Modules (DI Module)	EPS-1132	32-channel digital input module.
			Serial Device Server EKI-1524- CE	EKI-1524-CE	External device with serial ports that communicates with the robot via TCP/IP.
	8	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.
			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
			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	<u>F</u> 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.
Teach Pendant		NexCobot	TP Package-Plug&Play for OM	TP-100-1	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.

 $^{^{\}ast}$ Manufacturer SKU numbers are 3rd party part numbers, not OMRON part numbers.

Related Manuals

Cat. No.	Title
1623	TM5 Regular Payload Series Hardware Installation Manual
1624	TM12 & TM14 Medium & Heavy Payload Series Hardware Installation Manual
1678	TM16 & TM20 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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CSM_6_1

Cat. No. 1837-E-17 0323 (1018)