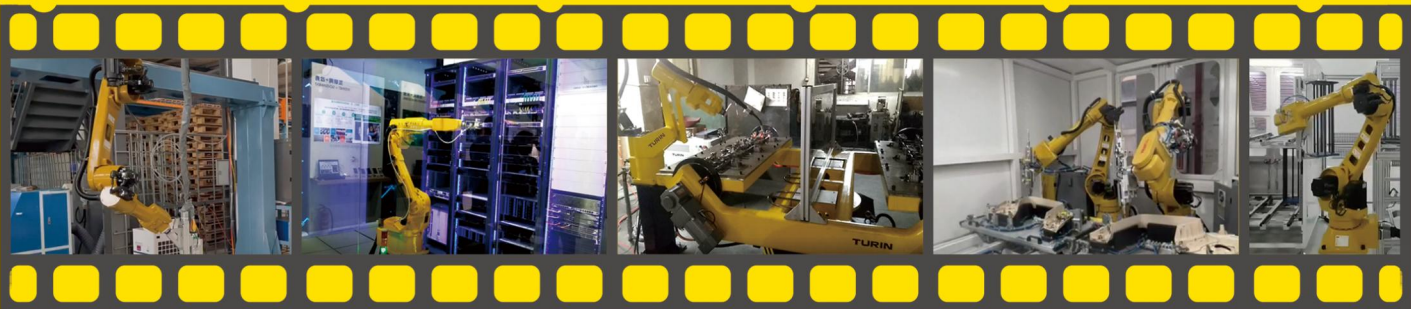


						
Model		TCR030	TCR050	TCR100	TCR200	TCR300
Payload		3kg	5kg	10kg	20kg	30kg
Arm Reach		585mm	900mm	1310mm	1650mm	1800mm
DOF		6	6	6	6	6
Power Supply		690~264VAC,47-63Hz/ 48VDC				
Programming		Drag teaching, graphic pages				
Security Module		More than 20 adjustable safety features including collision detection, virtual wall and collaboration mode				
Certification		EN ISO13849-1, Cat.3, EN ISO10218-1, European Union CE certification				
Position Repeatability		±0.03mm	±0.03mm	±0.05mm	±0.1mm	±0.1mm
Protection Rating		IP54/IP67	IP54/IP67	IP54/IP67	IP54	IP54
Max Speed	J1	180°/s	180°/s	120°/s	100°/s	100°/s
	J2	180°/s	180°/s	120°/s	100°/s	100°/s
	J3	180°/s	180°/s	120°/s	150°/s	150°/s
	J4	180°/s	180°/s	180°/s	180°/s	180°/s
	J5	180°/s	180°/s	180°/s	180°/s	180°/s
	J6	180°/s	180°/s	180°/s	180°/s	180°/s
Max Operation Area	J1	±175°	±175°	±175°	±175°	±175°
	J2	±175°	±175°	±175°	±175°	±175°
	J3	-240° ~+60°	-245° ~+65°	-245° ~+65°	-245° ~+65°	-245° ~+65°
	J4	±175°	±175°	±175°	±175°	±175°
	J5	±175°	±175°	±175°	±175°	±175°
	J6	±360°	±360°	±360°	±360°	±360°
Noise Level		Laeq≤85dB(A)				
Rated Power		0.9kw	2.55kw	3.5kw	3.9kw	5.95kw
Applicable Environment	Temperature	0~45° C				
	Humidity	20%~80%RH(No Condensation)				
Body Weight		16kg	26kg	43kg	68kg	154kg
Control Cabinet		TRC5-G06				TRC5-B06
Installation Method		Installation at Any Angle				

Application Scenarios of Robots



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Versatile Industrial Robot Platform with Deep Integration for Diverse Applications

45 Years Of Experience
In Industrial Robot Development



Shanghai Turin Smart Robot Co., Ltd.



Model	TRC4-A03	TRC5-B06	TRC5-G06	TRC3-C06	TRC3-D06
Installation Method	Vertical Installation				
Standard IO	IN:18 Ways (NPN) / OUT:10 Ways (Relay)	Carry: IN:18 Ways (NPN) / OUT:10 Ways (Relay) Welding: IN:6 Ways (NPN) / OUT:10 Ways (Relay); 2 AO (Analogue Output 0-10V)	IN:10 Ways (NPN) / OUT:14Ways (NPN)	IN:10 Ways (NPN) / OUT:14 Ways (Relay)	IN:10 Ways (NPN) / OUT:14 Ways (Relay)
Communicat-ion Interface	Ethernet Net Gape: For TCP/IP, Modbus TCP, Ethernet/IP, MC communication protocols				
	EtherCAT Net Gape: For Expansion of External Axes				
	Expandable Modbus-TCP to RS232 and RS485 serial port server				
Control Mode	PC programming platform control, teach pendant control, remote IO control, remote Modbus control and API control				
Protection Rating	IP54	IP65	IP54	IP54	IP54
Applicable Environment	Temperature: 0℃ ~40℃ Humidity: 20%-95%RH(30℃) (No Condensation)				
Size	438mmx398mmx185mm	850mmx550mmx566mm	420mmx235mmx405mm	1000mmx550mmx606mm	1000mm*750mm*607mm
Body Weight	12kg	76kg	14kg	100kg	140kg

Model	Touchscreen	Touchscreen resolution	Protection Rating	Length of Cable	Working Temperature	Size
TRP04-DS	Resistive	8 inches TFT resolution 1024*768	IP54	5m	-30℃ ~80℃	290mmx 240mmx53mm
TRP04-QT				10/15/ 20/30m		





		STG Series			STH Series			STW Series	
Model		STG030	STGI00	STH030	STHI00	STH200	STH500	STW030	STW060
Payload	Rated	3kg	10kg	3kg	10kg	20kg	50kg	3kg	6kg
	Max	5kg	-	5kg	-	50kg	-	5kg	-
Arm Reach	1st + 2nd Robotic Arm	500mm	700mm	400/500/600mm	800/900/1000mm	1200mm	1200mm	500/600mm	500/600/700mm
	1st Robotic Arm	250mm	300mm	150/250/350mm	400/500/600mm	600mm	550mm	200/300mm	200/300/400mm
	2nd Robotic Arm	250mm	400mm	250mm	400mm	600mm	650mm	300mm	300mm
Position Repeatability	J1/J2	±0.01mm	±0.02mm	±0.01mm	±0.02mm	±0.05mm	±0.05mm	±0.01mm	±0.02mm
	J3	±0.01mm		±0.01mm		±0.02mm		±0.01mm	
	J4	±0.01°		±0.01°		±0.005°		±0.01°	
Protection Level		IP40	IP40	IP40	IP40	IP40	IP40	IP40	IP40
Max Speed	J1/J2	9420mm/s	13816mm/s	6280/7065/7850mm/s	11304/12089/12874mm/s	12417mm/s	10162mm/s	7693/8478mm/s	7693/8478/9263mm/s
	J3	1000mm/s							
	J4	3500°/s	720°/s	720 °/s				3500°/s	
Max Operation Area	J1	±225°	±225°	±130°	±136°	±135°	±130°	±130°	±139°
	J2	±225°	±138°	±138°	±145°	±150°	±150°	±145°	±139°
	J3	150mm	200mm	150mm	200mm	400mm	400mm	200mm	200mm
	J4	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
Allowable Moment of Inertia of R Axis		0.01kg·m²	0.02kg·m²	0.005kg·m²	0.02kg·m²	-	-	0.01kg·m²	0.01kg·m²
	Max	0.05kg·m²	0.3kg·m²	0.05kg·m²	0.3kg·m²	2.45kg·m²	4.35kg·m²	0.12kg·m²	0.12kg·m²
Pressing Force of J3		150N	200N	100N	200N	250N	300N	150N	150N
Noise Level		Laeq≤85dB(A)							
Takt Time		0.32s	0.6s	0.4s	0.6s	0.91s	0.98s	0.4s	0.4s
Rated Power		1.15kw	1.35kw	0.7kw	1.35kw	3.1kw	3.8kw	0.8kw	1.15kw
User Wiring		RVV10*0.2	RVV20*0.2	RVV10*0.2			RVV10*0.2		
User Piping		3*Φ6mm	3*Φ6mm	3*Φ4mm	3*Φ6mm	3*Φ6mm	3*Φ6mm	3*Φ6mm	3*Φ6mm
User Distribution		single-phase AC220V -10%~+10%						three phase AC380V -10%~+10%	
Applicable Environment	Temperature	0-45 °C							
	Humidity	10%-80%RH							
Body Weight		27kg	43kg	16.8/17.9/19kg	46/48/50kg	155kg	170kg	20/25kg	37.5/40/42kg
Control Cabinet		TRC4-A03			TRC4-A03		TRC3-A06	TRC4-A03	
Mounting Holes		216*160mm (4-Φ11mm)		184*130mm (4-Φ11mm)	198*195mm (4-Φ14mm)	230*200mm (4-Φ14mm)	230*200mm (4-Φ14mm)	184*130mm (4-Φ11mm)	198*195mm (4-Φ14mm)
Installation Method		Hoisting			Countertop Installation			Countertop Installation	



Model		TKBI010	TRB050	TKB060	TKB070	TKBI210	TKBI100	TKBI400	TKBI440	TKBI600	TKB2030	TKB2670/2690	TKB3670	TKB3690	TKB5600/5700	TKB5800	RRB6700	RRB6600	TKB4600	TKB460	TKB660				
Rated Payload		1kg	3kg	6kg	7kg	7kg	10kg	6kg	10kg	12kg	6kg	20kg	30kg	30kg	60/70kg	50kg	210kg	155kg	12kg	30kg	180kg				
Arm Reach		370mm	616mm	720mm	910mm	960mm	1110mm	1412mm	1455mm	1410mm	2078mm	1721/1920mm	1721mm	1920mm	2119mm	2448mm	2700mm	3200mm	1435mm	1840mm	3200mm				
Position Repeatability		±0.01mm	±0.02mm	±0.02mm	±0.02mm	±0.04mm	±0.03mm	±0.05mm	±0.05mm	±0.06mm	±0.07mm	±0.05mm	±0.05mm	±0.05mm	±0.08mm	±0.08mm	±0.1mm	±0.1mm	±0.08mm	±0.08mm	±0.1mm				
Protection Level		IP54	IP54	IP54/IP67 (5&6 Axes Optional)	IP54/IP67	IP54/IP67 (5&6 Axes Optional)	IP54	IP54/IP67 (5&6 Axes Optional)	IP54	IP54/IP67 (5&6 Axes Optional)	IP54	IP54/IP67 (5&6 Axes Optional)	IP54/IP67 (5&6 Axes Optional)	IP54/IP67 (5&6 Axes Optional)	IP54	IP54	IP54/IP65 (5&6 Axes Optional)	IP54/IP65 (5&6 Axes Optional)	IP54	IP54	IP54/IP65 (4 Axes Optional)				
Structural Form		Vertical Multi-jointed Series Structure										Vertical Multi-jointed Series Structure										Vertical Multi-jointed Series Structure			
DOF		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4				
Max Speed	J1	320°/s	450°/s	450°/s	450°/s	450°/s	360°/s	198°/s	198°/s	148°/s	168°/s	186°/s	186°/s	186°/s	127°/s	127°/s	114°/s	110°/s	210°/s	200°/s	105°/s				
	J2	320°/s	450°/s	450°/s	450°/s	450°/s	300°/s	198°/s	198°/s	148°/s	148°/s	186°/s	170°/s	170°/s	105°/s	105°/s	83°/s	83°/s	205°/s	175°/s	83°/s				
	J3	375°/s	720°/s	450°/s	450°/s	450°/s	300°/s	169°/s	210°/s	230°/s	160°/s	200°/s	200°/s	200°/s	165°/s	150°/s	95°/s	95°/s	185°/s	175°/s	129.5°/s				
	J4	500°/s	720°/s	458°/s	458°/s	458°/s	520°/s	360°/s	330°/s	480°/s	330°/s	452°/s	452°/s	452°/s	253°/s	231°/s	180°/s	150°/s	500°/s	360°/s	270°/s				
	J5	470°/s	720°/s	540°/s	720°/s	720°/s	360°/s	720°/s	360°/s	450°/s	256°/s	450°/s	330°/s	330°/s	250°/s	250°/s	165°/s	150°/s	/	/	/				
Max Operation Area	J1	±170°	±170°	±165°	±170°	±170°	±170°	±170°	±170°	±170°	±160°	±160°	±160°	±160°	±170°	±170°	±185°	±185°	±175°	±175°	±185°				
	J2	-80° ~120°	-80° ~120°	-75° ~110°	-75° ~110°	-70° ~135°	-75° ~100°	-92° ~153°	-92° ~153°	-90° ~150°	-90° ~150°	-80° ~150°	-80° ~150°	-80° ~150°	-90° ~135°	-90° ~135°	-50° ~85°	-40° ~85°	-35° ~85°	-35° ~85°	-42° ~85°				
	J3	-180° ~50°	-75° ~75°	-100° ~55°	-120° ~50°	-75° ~75°	-120° ~50°	-100° ~80°	-100° ~75°	-100° ~80°	-100° ~75°	-100° ~80°	-100° ~80°	-100° ~80°	-185° ~90°	-185° ~90°	-180° ~70°	-180° ~75°	-90° ~70°	-90° ~70°	-20° ~110°				
	J4	±170°	±120°	±160°	±160°	±160°	±140°	±140°	±190°	±140°	±190°	±150°	±150°	±150°	±200°	±200°	±360°	±360°	±360°	±360°	±360°				
	J5	±125°	±120°	±110°	±120°	±130°	±120°	±120°	±130°	±120°	±110°	±110°	±110°	±110°	±105°	±105°	±125°	±125°	/	/	/				
Wrist Allowable Torque	J4	3.33Nm	7.38Nm	12.5Nm	16.7Nm	16.7Nm	21Nm	16.7Nm	20Nm	23Nm	20Nm	42Nm	62Nm	62Nm	206Nm/330Nm	206Nm	1360Nm	1000Nm	/	/	/				
	J5	3.33Nm	7.38Nm	12.5Nm	16.7Nm	16.7Nm	21Nm	16.7Nm	20Nm	23Nm	20Nm	42Nm	62Nm	62Nm	206Nm/330Nm	206Nm	1360Nm	1000Nm	/	/	/				
	J6	0.98Nm	4.45Nm	7.6Nm	9.6Nm	9.6Nm	10Nm	9.6Nm	11Nm	9.3Nm	11Nm	26Nm	35Nm	35Nm	127Nm/165Nm	127Nm	735Nm	600Nm	/	/	/				
Maximum Allowable Inertia of the Wrist	J4	0.058kgm ²	0.2kgm ²	0.35kgm ²	0.49kgm ²	0.49kgm ²	0.5kgm ²	0.49kgm ²	0.5kgm ²	0.63kgm ²	0.5kgm ²	1.18kgm ²	1.5kgm ²	1.5kgm ²	28kgm ² /30kgm ²	28kgm ²	147kgm ²	89kgm ²	1.3kgm ²	1.5kgm ²	82.3kgm ²				
	J5	0.058kgm ²	0.2kgm ²	0.35kgm ²	0.49kgm ²	0.49kgm ²	0.5kgm ²	0.49kgm ²	0.5kgm ²	0.63kgm ²	0.5kgm ²	1.18kgm ²	1.5kgm ²	1.5kgm ²	28kgm ² /30kgm ²	28kgm ²	147kgm ²	89kgm ²	/	/	/				
	J6	0.005kgm ²	0.067kgm ²	0.13kgm ²	0.16kgm ²	0.16kgm ²	0.5=2kgm ²	0.16kgm ²	0.16kgm ²	0.17kgm ²	0.16kgm ²	0.8kgm ²	0.7kgm ²	0.7kgm ²	11kgm ² /16.8kgm ²	11kgm ²	82kgm ²	49kgm ²	/	/	/				
Rated Power		0.4kw	1.05kw	2.2kw	2.4kw	2.4kw	2.5kw	3.5kw	4.3kw	4.3kw	4.3kw	4.5kw/4.7kw	5kw	5.2kw	6.5kw/6.8kw	7kw	8.5kw	7.5kw	2.5kw	4.2kw	5.5kw				
User Wiring		RVV10*0.08	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV10*0.2	RVV5*6	RVV5*6	RVV17*0.2	RVV16*0.2	RVV5*6				
User Piping		2*Φ4mm	2*Φ4mm	2*Φ6mm	2*Φ6mm	2*Φ6mm	2*Φ6mm	1*Φ8mm	1*Φ8mm	2*Φ8mm	1*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm	2*Φ8mm				
User Distribution		single-phase AC220V -10%~+10%										three phase AC380V -10%~+10%										single-phase AC220V -10%~+10%			three phase AC380V -10%~+10%
Applicable Environment	Temperature	0~45℃										0~45℃										0~45℃			
	Humidity	10%-80%RH										10%-80%RH										10%-80%RH			
	Max Temperature Gradient	1.5℃/min										1.5℃/min										1.5℃/min			
Body Weight		15kg	35kg	40kg	50kg	49kg	55kg	160kg	155kg	160kg	210kg	210/220kg	220kg	220kg	600kg	650kg	1300kg	1320kg	175kg	240kg	1193kg				
Control Cabinet		TRC4-A03	TRC4-A03	TRC4-A03	TRC4-A03	TRC4-A03	TRC4-A03	TRC5-B06	TRC5-B06	TRC5-B06	TRC5-B06	TRC5-B06	TRC5-B06	TRC5-B06	TRC3-C06	TRC3-C06	TRC3-D06	TRC3-D06	TRC5-B06/ TRC3-D06	TRC5-B06/ TRC3-D06	TRC3-D06				
Installation Method		Floor-standing										Floor-standing										Floor-standing			