

INTELLIGENT MANUFACTURING EXPERT

STOCK CODE 688165

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EFORT

EFORT

Creating intelligent robot intelligently, liberating human productivity.



EFORT ROBOT SELECTION GUIDE

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OFFICIAL ACCOUNT

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EFORT ROBOT FAMILIES



[SCARA]

[MINI]

[SMALL PAYLOADS]

[MEDIUM PAYLOADS]

[LARGE PAYLOADS]

[PALLETIZING]

[WELDING]

[PAINTING]

[COLLABORATIVE]



Model		ER8-700H	ER8-900H	ER8-1300	ER10-700	ER10-900	ER10-1100	ER12-900	ER15-1400	ER20-1100	ER12H-1600
Safety function (Option)											X
CE Marking		CE	CE	CE							
TYPE OF CABINET		TYPE S	TYPE S	TYPE S							
Max. payload on wrist		8 kg	8 kg	8 kg	10 kg	10 kg	10 kg	12 kg	15 kg	20 kg	12 kg
Repeatability		±0.02 mm	±0.02 mm	±0.03 mm	±0.02 mm	±0.02 mm	±0.025 mm	±0.02 mm	±0.03 mm	±0.03 mm	±0.03 mm
Robot weight		41 kg	43 kg	80 kg	41 kg	43 kg	78 kg	75 kg	150 kg	145 kg	170 kg
Reach		712 mm	910 mm	1291 mm	712 mm	910 mm	1142 mm	944 mm	1420 mm	1143 mm	1604 mm
Robot IP grade		IP65 / IP67 (Wrist)	IP65 / IP67 (Wrist)	IP54 / IP67 (Wrist)							
Cabinet IP grade		IP20/ IP54 (Optional)	IP20/ IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)
Installation		Floor, Upside-down, Wall	Floor, Upside-down, Wall, Angle	Floor, Upside-down, Wall, Angle	Floor, Upside-down, Wall						
Maximum speed	J1	380° / sec	330° / sec	230° / sec	330° / sec	300° / sec	230° / sec	245° / sec	260° / sec	260° / sec	265° / sec
	J2	330° / sec	280° / sec	190° / sec	300° / sec	255° / sec	225° / sec	225° / sec	255° / sec	255° / sec	255° / sec
	J3	420° / sec	360° / sec	240° / sec	400° / sec	330° / sec	330° / sec	330° / sec	210° / sec	210° / sec	270° / sec
	J4	500° / sec	500° / sec	500° / sec	450° / sec	450° / sec	500° / sec	500° / sec	450° / sec	450° / sec	450° / sec
	J5	450° / sec	450° / sec	420° / sec	450° / sec	450° / sec	450° / sec				
	J6	720° / sec	720° / sec	720° / sec	600° / sec	600° / sec	720° / sec	720° / sec	720° / sec	600° / sec	600° / sec
Motion range	J1	±170°	±170°	±170°	±170°	±170°	±170°	±170°	±170°	±170°	±170°
	J2	+100° / -135°	+100° / -135°	+100° / -130°	+100° / -135°	+100° / -135°	+100° / -130°	+100° / -130°	+90° / -160°	+83° / -160°	+85° / -150°
	J3	+200° / -66°	+200° / -75°	+193° / -75°	+200° / -66°	+200° / -75°	+193° / -75°	+193° / -75°	+175° / -85°	+175° / -85°	+175° / -85°
	J4	±190°	±190°	±190°	±190°	±190°	±190°	±190°	±190°	±190°	±190°
	J5	±130°	±130°	±120°	±130°	±130°	±120°	±120°	±130°	±130°	±130°
	J6	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
											±190° (The connect outside robot body.) ±140° (The connect inside robot body.)
											±450° (The connect outside robot body.) ±220° (The connect inside robot body.)



Model		ER12H-2000	ER15H-1400	ER12-2100	ER25-1600	ER25-1800	ER25-2300	ER25-2700	ER35-1900
Safety function (Option)				X	X	X	X		X
CE Marking		CE	CE	CE	CE	CE	CE	CE	CE
TYPE OF CABINET		TYPE S	TYPE S	TYPE S	TYPE S	TYPE S	TYPE S	TYPE S	TYPE S
Max. payload on wrist		12 kg	15 kg	12 kg	25 kg	25 kg	25 kg	25 kg	35 kg
Repeatability		±0.03 mm	±0.03 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm
Robot weight		190 kg	165 kg	165 kg	174 kg	175 kg	315 kg	375 kg	275 kg
Reach		2025 mm	1479 mm	2051 mm	1665 mm	1850 mm	2295 mm	2701 mm	1875 mm
Robot IP grade		IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)
Cabinet IP grade		IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)	IP20 / IP54 (Optional)
Installation		Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down	Floor, Upside-down, Wall
Maximum speed	J1	220° / sec	265° / sec	220° / sec	220° / sec	220° / sec	190° / sec	190° / sec	190° / sec
	J2	180° / sec	255° / sec	180° / sec	180° / sec	180° / sec	190° / sec	150° / sec	190° / sec
	J3	210° / sec	270° / sec	200° / sec	200° / sec	200° / sec	200° / sec	200° / sec	200° / sec
	J4	420° / sec	450° / sec	360° / sec	360° / sec	360° / sec	350° / sec	400° / sec	350° / sec
	J5	420° / sec	450° / sec	420° / sec	360° / sec	360° / sec	360° / sec	400° / sec	350° / sec
	J6	700° / sec	700° / sec	600° / sec	410° / sec	410° / sec	410° / sec	400° / sec	400° / sec
Motion range	J1	±170°	±170°	±170°	±170°	±170°	±173°	±173°	±173°
	J2	+77° / -160°	+85° / -150°	+77° / -160°	+77° / -160°	+77° / -160°	+105° / -141°	+70° / -150°	+105° / -141°
	J3	+175° / -85°	+175° / -85°	+165° / -85°	+165° / -85°	+165° / -85°	+200° / -78°	+147° / -90°	+200° / -78°
	J4	±190°	±190°	±190°	±190°	±190°	±190°	±190°	±190°
	J5	±190° (The connect outside robot body.)	±190° (The connect outside robot body.)	±120°	±130°	±130°	±130°	±130°	±130°
		±140° (The connect inside robot body.)	±140° (The connect inside robot body.)						
J6	±450° (The connect outside robot body.)	±450° (The connect outside robot body.)	±360°	±360°	±360°	±360°	±360°	±360°	
	±220° (The connect inside robot body.)	±220° (The connect inside robot body.)							



ER35-2700

ER50-2100

ER50-2700

ER70-1900

ER70-2100

ER130-4-2800

ER180-4-3200

Model

Safety function (Option)		X	X	X	X	X	X
CE Marking		CE	CE	CE	CE	CE	CE
TYPE OF CABINET		TYPE M	TYPE M				
Max. payload on wrist		35 kg	50 kg	50 kg	70 kg	70 kg	130 kg
Repeatability		±0.06 mm	±0.06 mm	±0.05 mm	±0.06 mm	±0.06 mm	±0.1 mm
Robot weight		600 kg	550 kg	615 kg	545 kg	550 kg	970 kg
Reach		2701 mm	2146 mm	2750 mm	1901 mm	2146 mm	2816 mm
Robot IP grade		IP54 / IP67 (Wrist)	IP54 / IP65 (Optional)				
Cabinet IP grade		IP54	IP54	IP54	IP54	IP54	IP54
Installation		Floor	Floor	Floor	Floor	Floor	Floor
Maximum speed	J1	170° / sec	170° / sec	180° / sec	210° / sec	190° / sec	110° / sec
	J2	170° / sec	170° / sec	180° / sec	160° / sec	150° / sec	110° / sec
	J3	170° / sec	170° / sec	165° / sec	190° / sec	186° / sec	105° / sec
	J4	270° / sec	270° / sec	300° / sec	310° / sec	300° / sec	330° / sec
	J5	270° / sec	270° / sec	225° / sec	270° / sec	280° / sec	/
	J6	365° / sec	365° / sec	360° / sec	400° / sec	400° / sec	/
Motion range	J1	±180°	±180°	±180°	±180°	±180°	±180°
	J2	+70° / -130°	+70° / -130°	+70° / -135°	+70° / -130°	+70° / -130°	+42° / -85°
	J3	+175° / -80°	+175° / -80°	+170° / -80°	+175° / -80°	+175° / -80°	+85° / -55°
	J4	±360°	±360°	±200°	±360°	±360°	±360°
	J5	±115°	±115°	±120°	±115°	±115°	/
	J6	±450°	±450°	±360°	±450°	±450°	/
J2+J3						-115° < (J2+J3) < +20°	
						-106° < (J2+J3) < +23°	



† Model

ER150-2700

ER150-3200

ER210-2700

ER230-2700

ER230-3100

ER300-2700

Safety function (Option)			X		X		X
CE Marking		CE	CE	CE	CE	CE	CE
TYPE OF CABINET		TYPE M	TYPE M	TYPE M	TYPE M	TYPE M	TYPE M
Max. payload on wrist		150 kg	150 kg	210 kg	230 kg	230 kg	300 kg
Repeatability		±0.1 mm	±0.2 mm	±0.1 mm	±0.05 mm	±0.05 mm	±0.05 mm
Robot weight		1110 kg	1160 kg	1110 kg	1320 kg	1600 kg	1580 kg
Reach		2674 mm	3192 mm	2674 mm	2702 mm	3098 mm	2702 mm
Robot IP grade		IP65	IP65	IP54 / IP65	IP65	IP65	IP54 / IP65
Cabinet IP grade		IP54	IP54	IP54	IP54	IP54	IP54
Installation		Floor	Floor	Floor	Floor	Floor	Floor
Maximum speed	J1	110° / sec	100° / sec	100° / sec	130° / sec	105° / sec	105° / sec
	J2	100° / sec	90° / sec	90° / sec	110° / sec	100° / sec	100° / sec
	J3	105° / sec	85° / sec	85° / sec	115° / sec	110° / sec	110° / sec
	J4	120° / sec	105° / sec	109° / sec	170° / sec	140° / sec	140° / sec
	J5	110° / sec	100° / sec	105° / sec	120° / sec	110° / sec	110° / sec
	J6	220° / sec	195° / sec	200° / sec	220° / sec	180° / sec	180° / sec
Motion range	J1	±180°	±180°	±180°	±185°	±185°	±185°
	J2	+60° / -80°	+60° / -80°	+60° / -80°	+65° / -85°	+65° / -85°	+65° / -85°
	J3	+90° / -83°	+90° / -83°	+90° / -83°	+180° / -70°	+180° / -70°	+180° / -70°
	J4	±360°	±360°	±360°	±360°	±360°	±360°
	J5	±120°	±120°	±120°	±130°	±130°	±130°
	J6	±360°	±360°	±360°	±360°	±360°	±360°
	J2+J3	/	/	/	/	/	/



COLLABORATIVE



WELDING



PAINTING



Model	ECR5	ARC10-1600	ARC12-1400	ARC12-2000	GR630-1900	GR680-2700	GR6100-3800	GR6150-1500	GR6150-2900	GR6160-3200	
Safety function (Option)											
CE Marking		CE	CE	CE		CE	CE	CE	CE		
TYPE OF CABINET		TYPE S	TYPE S	TYPE S		PAINT	PAINT	PAINT	PAINT		
Max. payload on wrist	5 kg	10 kg	12 kg	12 kg	3 kg	8 kg	10 kg	15 kg	15 kg	16 kg	
Repeatability	±0.03 mm	±0.03 mm	±0.03 mm	±0.03 mm	±1 mm	±0.2 mm	±0.2 mm	±0.15 mm	±0.2 mm	±0.15 mm	
Robot weight	20.5 kg	170 kg	165 kg	185 kg	400 kg	450 kg	920 kg	245 kg	640 kg	600 kg	
Reach	928 mm	1604 mm	1479 mm	2025 mm	1929 mm	2715 mm	3750 mm	1500 mm	2900 mm	3240 mm	
Robot IP grade	IP54	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP54 / IP67 (Wrist)	IP65	IP65	IP65	IP65	IP65	IP65	
Cabinet IP grade	IP40	IP54	IP54	IP54	IP52	IP54	IP54	IP54	IP54	IP54	
Installation	Floor, Upside-down, Wall, Angle	Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down, Wall	Floor, Upside-down	Floor, Upside-down, Wall (Optional)	Floor, Upside-down	Floor, Upside-down, Wall, Angle	Floor, Upside-down, Wall (Optional)	Floor	
Maximum speed	J1	150° / sec	265° / sec	265° / sec	220° / sec	120° / sec	150° / sec	130° / sec	180° / sec	120° / sec	140° / sec
	J2	150° / sec	255° / sec	255° / sec	180° / sec	120° / sec	145° / sec	150° / sec	180° / sec	120° / sec	140° / sec
	J3	150° / sec	270° / sec	270° / sec	210° / sec	120° / sec	150° / sec	150° / sec	180° / sec	120° / sec	165° / sec
	J4	180° / sec	450° / sec	450° / sec	420° / sec	540° / sec	500° / sec	600° / sec	360° / sec	360° / sec	500° / sec
	J5	180° / sec	450° / sec	450° / sec	420° / sec	540° / sec	500° / sec	600° / sec	400° / sec	420° / sec	350° / sec
	J6	180° / sec	700° / sec	700° / sec	700° / sec	540° / sec	720° / sec	720° / sec	450° / sec	530° / sec	900° / sec
Motion range	J1	±180°	±170°	±170°	±170°	±120°	±175°	±155°	±160°	±160°	±180°
	J2	±180°	+85° / -150°	+85° / -150°	+77° / -160°	±70°	+80° / -150°	+75° / -145°	±135°	±135°	+70° / -135°
	J3	±160°	+175° / -85°	+175° / -85°	+175° / -85°	+60° / -45°	+125° / -80°	+105° / -75°	+240° / -60°	+250° / -75°	+175° / -80°
	J4	±180°	±190°	±190°	±190°	±360°	±360°	±360°	±540°	±540°	±360°
	J5	±180°	±190° (The connect outside robot body.) ±140° (The connect inside robot body.)	±190° (The connect outside robot body.) ±140° (The connect inside robot body.)	±190° (The connect outside robot body.) ±140° (The connect inside robot body.)	±360°	±360°	±360°	±540°	±540°	±120°
	J6	±360°	±450° (The connect outside robot body.) ±220° (The connect inside robot body.)	±450° (The connect outside robot body.) ±220° (The connect inside robot body.)	±450° (The connect outside robot body.) ±220° (The connect inside robot body.)	±360°	±360°	±360°	±540°	±540°	±360°



CABINET TYPE S

CABINET TYPE M

Model

Main power supply	Rated voltage	Single/Three-phase AC220V±10%	Three-phase AC380V±10%
	Rated frequency	50/60 Hz	50/60 Hz
	Power capacity	Max. 5 kVA	Max. 8 kVA
I/O	Rated voltage	DC24 V	DC24 V
	Type	PNP/NPN optional	PNP/NPN optional
	DI	16 standard, Maximum extension to 80	16 standard, Maximum extension to 80
	DO	16 standard, Maximum extension to 80	16 standard, Maximum extension to 80
Communication Protocol	LAN network port	For TCP/IP, Modbus TCP Slave, Ethernet/IP Slave	For TCP/IP, Modbus TCP Slave, Ethernet/IP Slave
	WAN network port	For TCP/IP, Modbus TCP Slave, Ethernet/IP Slave	For TCP/IP, Modbus TCP Slave, Ethernet/IP Slave
	EtherCAT network port	For expansion of external axes, expansion of gateway modules, expansion of remote IO modules	For expansion of external axes, expansion of gateway modules, expansion of remote IO modules
	F-Bus network port (Optional)	For EtherCAT Slave, PROFINET Slave	For EtherCAT Slave, PROFINET Slave
	CAN network port (Optional)	For CANopen, DeviceNet protocol, adaptation for welding machine communication	For CANopen, DeviceNet protocol, adaptation for welding machine communication
	RS232 network port (Optional)	For serial communication	For serial communication
IP grade		IP20 / IP54	IP54
Cabinet size (width×depth×height)		IP20: 430×508×224 (mm)	700×577×1045 (mm)
		IP54: 440×606×229 (mm)	
Cabinet weight		IP20: 25 kg	125 kg
		IP54: 28 kg	
Extension axes	Extension cabinet-IP20	Single-phase AC220V±10%, up to 2 extension axes, supported motor power: 1kW, 2kW	/
	Extension cabinet-IP54	Three-phase AC380V±10%, up to 4 extension axes, supported motor power: 1kW, 2kW, 3kW, 5kW	Three-phase AC380V±10%, up to 3 extension axes, supported motor power: 1kW, 3kW, 5kW, 5.5kW

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