





# CR Collaborative Robot Series

## Specifications

Product Name		 <b>CR3</b>	 <b>CR3L</b>	 <b>CR5</b>	 <b>CR7</b>
Weight		16.5kg	39.5kg	25kg	24.5kg
Rated Payload		3kg	3kg	5kg	7kg
Reach		620mm	1700mm	900mm	800mm
Max. Reach		795mm	1919mm	1096mm	990mm
Rated Voltage		DC48V	DC48V	DC48V	DC48V
Max. Speed of TCP		2m/s	4m/s	3m/s	3m/s
Joint Ranges	J1	±360°	±360°	±360°	±360°
	J2	±360°	±360°	±360°	±360°
	J3	±155°	±170°	±160°	±160°
	J4	±360°	±360°	±360°	±360°
	J5	±360°	±360°	±360°	±360°
	J6	±360°	±360°	±360°	±360°
Max. Speed of Joints	J1/J2	180° /s	120° /s	180° /s	180° /s
	J3/J4/J5/J6	180° /s	180° /s	180° /s	180° /s
End-Effector I/O Interface	DI/DO/AI	2			
	AO	0			
Communication Interface	Communication	RS485			
Controller I/O	DI	16			
	DO/DI	16			
	AI/AO	2			
	ABZ Incremental Encoder	1			
	Cable length from body to cabinet	5M			
Repeatability		±0.02mm	±0.05mm	±0.02mm	±0.02mm
Communication		TCP/IP, Modbus TCP, EtherCAT, WIFI			
IP Rating		IP54			
Temperature		0°C -45°C			
Power Consumption		120W	300W	150W	150W
Materials		Aluminum alloy, ABS plastic			



Product Name		CR10	CR12	CR16
Weight		40kg	39.5kg	40kg
Rated Payload		10kg	12kg	16kg
Reach		1300mm	1200mm	1000mm
Max. Reach		1525mm	1425mm	1223mm
Rated Voltage		DC48V	DC48V	DC48V
Max. Speed of TCP		4m/s	4m/s	3m/s
Joint Ranges	J1	$\pm 360^{\circ}$	$\pm 360^{\circ}$	$\pm 360^{\circ}$
	J2	$\pm 360^{\circ}$	$\pm 360^{\circ}$	$\pm 360^{\circ}$
	J3	$\pm 160^{\circ}$	$\pm 160^{\circ}$	$\pm 160^{\circ}$
	J4	$\pm 360^{\circ}$	$\pm 360^{\circ}$	$\pm 360^{\circ}$
	J5	$\pm 360^{\circ}$	$\pm 360^{\circ}$	$\pm 360^{\circ}$
	J6	$\pm 360^{\circ}$	$\pm 360^{\circ}$	$\pm 360^{\circ}$
Max. Speed of Joints	J1/J2	120° /s	120° /s	120° /s
	J3/J4/J5/J6	180° /s	180° /s	180° /s
End-Effector I/O Interface	DI/DO/AI	2		
	AO	0		
Communication Interface	Communication	RS485		
Controller I/O	DI	16		
	DO/DI	16		
	AI/AO	2		
	ABZ Incremental Encoder	1		
	Cable length from body to cabinet	5M		
Repeatability		$\pm 0.03\text{mm}$	$\pm 0.03\text{mm}$	$\pm 0.03\text{mm}$
Communication		TCP/IP, Modbus TCP, EtherCAT, WIFI		
IP Rating		IP54		
Temperature		0°C -45°C		
Power Consumption		350W	350W	350W
Materials		Aluminum alloy, ABS plastic		