

Technische Spezifikationen		Prime P-SERIE	High-Power H-SERIE		Masterpiece M-SERIE				Agile A-SERIE						Edge E-SERIE	
Manipulator	Modell	P3020	H2515	H2017	M1509	M1013	M0617	M0609	A0912S	A0509S	A0912	A0509	A0912F	A0509F	E0509	
	Nutzlast	30 kg (66 lbs)	25 kg (55.1 lb)	20 kg (44 lb)	15 kg (33 lb)	10 kg (22 lb)	6 kg (13.2 lb)	6 kg (13.2 lb)	9 kg (19.8 lb)	5 kg (11 lb)	9 kg (19.8 lb)	5 kg (11 lb)	9 kg (19.8 lb)	5 kg (11 lb)	5 kg (11 lb)	
	Reichweite	2,030 mm (79.9 inch)	1,500 mm (59 inch)	1,700 mm (66.9 inch)	900 mm (35.4 inch)	1,300 mm (51.1 inch)	1,700 mm (66.9 inch)	900 mm (35.4 inch)	1,203 mm (47.2 inch)	903 mm (35.4 inch)	1,200 mm (47.2 inch)	900 mm (35.4 inch)	1,200 mm (47.2 inch)	900 mm (35.4 inch)	900 mm (35.4 inch)	
	Gewicht	83 kg (182.9 lbs)	77 kg (169.8 lb)	79 kg (174.2 lb)	33 kg (72.8 lb)	34 kg (75 lb)	35.5 kg (78.3 lb)	27.5 kg (60.6 lb)	31 kg (68.3 lb)	21 kg (46.2 lb)	31 kg (68.3 lb)	21 kg (46.2 lb)	31 kg (68.3 lb)	21 kg (46.2 lb)	22.5 kg (49.6 lb)	
	Wiederholgenauigkeit	±0.1 mm	±0.1 mm	±0.1 mm	±0.03 mm	±0.05 mm	±0.1 mm	±0.03 mm	±0.05 mm	±0.03 mm	±0.05 mm	±0.03 mm	±0.05 mm	±0.03 mm	±0.05 mm	
	Leistungsaufnahme (typisch)	307W	290W		390W			370W	440W	370W	440W	370W	440W	370W	440W	210W
	Montageposition	Floor	Floor		Any Orientation											
	Freiheitsgrade	5	6													
	Werkzeuggeschwindigkeit	Over 1 m/s														
	Temperatur	0 ~ 45 °C														
	Geräuschpegel	< 65 dB													< 60 dB	
	Schutzart	IP54													IP66	
	<b>Joint Movement (Range : °   Max Speed : °/s)</b>															
	J1	±360°   100°/s	±360°   100°/s		±360°   150°/s	±360°   120°/s	±360°   100°/s	±360°   150°/s	±360°   180°/s						±360°   120°/s	
	J2	±125°   80°/s	±125°   80°/s		±360°   150°/s	±360°   120°/s	±360°   100°/s	±360°   150°/s	±360°   180°/s						±360°   120°/s	
	J3	±160°   80°/s	±160°   100°/s		±150°   180°/s	±160°   180°/s	±165°   150°/s	±150°   180°/s	±160°   180°/s						±155°   150°/s	
	J4	-	±360°   180°/s		±360°   225°/s	±360°   225°/s	±360°   225°/s	±360°   225°/s	±360°   360°/s						±360°   225°/s	
	J5	±360°   200°/s	±360°   180°/s		±360°   225°/s	±360°   225°/s	±360°   225°/s	±360°   225°/s	±360°   360°/s						±155°   225°/s	
	J6	±360°   360°/s	±360°   180°/s		±360°   225°/s	±360°   225°/s	±360°   225°/s	±360°   225°/s	±360°   360°/s						±360°   225°/s	
	<b>Other Features</b>															
	Flansch-Schnittstelle	D-in 2, D-out 2, RS-485(Pseudo), DC 24V, 12V, 0V (Max 3A) by two connectors (X1, X2)							D-in 2, D-out 2, RS-485(Pseudo), DC 24V (Max.3A) by one connector (X1)							
	Force & Compliance Control	Yes by built-in Joint Torque Sensors in each joint							Yes by built-in 6-axis force sensor at flange			X, Y, Z direction only by current control				
	Andere Optionen	Cockpit Advanced Features (SW)													Cable Holder (4Φ, 6Φ 겸용)	
Certification	Robotersicherheit	KCs, CE, NRTL, EN ISO 10218-1, EN ISO 13849-1 PLc Cat.4 for emergency stop, PLd Cat.3 for other safety functions														
	Lebensmittelsicherheit	N/A											NSF Splash Zone	NSF Food Zone Non contact		
Controller	Kompatibilität	P-SERIE	H-SERIE · M-SERIE			A-SERIE		E-SERIE		ALLE SERIEN						
	Modell	CS-01P (AC)	CS-01 (AC)	CS-02 (DC)	CS-03 (AC)	CS-04 (DC)	CS-05 (AC)	CS-06 (DC)	CS-11 (AC)	CS-12 (DC)	CS-11P (AC)	CS-12P (DC)				
	Dimensionen	577(W) x 241(D) x 422(H) mm	525(W) x 287(D) x 390(H) mm	462(W) x 218(D) x 295(H) mm	482(W) x 214(D) x 375(H) mm		440(W) x 400(D) x 91.2(H) mm		455(W) x 185(D) x 225.5(H) mm	455(W) x 185(D) x 225.5(H) mm	606(W) x 306.9(D) x 446(H) mm	606(W) x 306.9(D) x 446(H) mm				
	Gewicht	17 kg	13 kg	12 kg	13 kg		9 kg		9.8 kg	9.6 kg	21.7 kg	21.5 kg				
	Schutzart	IP 54	IP 30	IP 20	IP 40		IP 20		Not Rated			IP 54				
	Stromversorgung	100~240 VAC , 50~60Hz			20-60 VDC		100~240 VAC , 50~60Hz	20-60 VDC	100~240 VAC , 50~60Hz	20-60 VDC	100~240 VAC, 50~60 Hz	22~60 VDC	100~240 VAC, 50~60 Hz	22~60 VDC		
	Kabellänge	6 m (default) , 3 m (option)			3 m (default), 6 m (option)		6 m									
	Kommunikation	ModbusTCP (Master(Client)/Slave(Server)), ModbusRTU (Master(Client)), PROFINET IO (Device), EtherNet/IP (Adapter), TCP/IP, RS-232/RS-422/RS-485 using USB to Serial converter (not included)							ModbusTCP (Master(Client)/Slave(Server)), ModbusRTU (Master(Client)), PROFINET IO (Device), EtherNet/IP (Adapter), TCP/IP, RS-232/RS-422/RS-485 using USB to Serial converter (not included)							
	Schnittstelle	D-in 16, D-out 16, A-in 2, A-out 2, External Encoder, DC 24V 2A														
	Programmierung	Built-in Teach Pendant (IP40, 10.1 inch display, 0.8kg, 4.5m/2.5m cable) DART-Plattform for Windows (free PC software, MS Surface compatible) DART-Studio (DRL, Simulator), App Builder				Optional Teach Pendant (IP40, 11.1 inch display, 0.8kg, 4.5m cable) DART-Plattform for Windows (free PC software, MS Surface compatible) DART-Studio (DRL, Simulator), App Builder			DART-Plattform for Windows (free PC software, MS Surface compatible) DART-Studio (DRL, Simulator), App Builder			Built-in Teach Pendant (IP40, 10.1 inch display, 0.8kg, 4.5m cable) DART-Suite Ecosystem DART-Plattform for Windows (free PC software, MS Surface compatible), Mac (M1, M2), Android (Tablet) DART-Studio (DRL, Simulator)				
	Andere Optionen	N/A				Smart Pendant, Emergency Button				N/A						