

Summary of robot arm products		myCobot -280				myPalletizer-260		mechArm-270		myCobot - 320 2022 series		myCobot Pro - 600	myBuddy280	
versions		m5	Pi	Jetson Nano	Arduino	m5	Pi	m5	Pi	m5	Pi			
product picture														
Specifications	DOF	6	6	6	6	4	4	6	6	6	6	6	13	
	Working range (mm)	280	280	280	280	260	260	270	270	350	350	600	Single arm280	
	Payload (g)	250	250	250	250	250	250	250	250	1000	1000	2000	Single arm250	
	Weight (g)	850	860	1030	780	960	960	850	1000	3360	3360	8800	2750	
	Repeatability (mm)	± 0.5	± 0.5	± 0.5	± 0.5	± 0.3	± 0.3	± 0.3	± 0.3	± 0.5	± 0.5	±0.5	± 0.5	
Hardware parameters	Power INPUT	DC 8.4 - 14V	DC 8.4 - 14V	DC 8.4 - 14V	DC 8.4 - 14V	DC 8.4 - 14V	DC 8.4 - 14V	DC 8.4 - 14V	DC 8.4 - 14V	DC 24V 120W	DC 24V 120W	DC 48V	DC 24V	
	TypeC	*1				*1		*1		*1	*1			
	USB		USB 3.0*2 USB 2.0*2	USB 3.0*2 USB 2.0*2			USB 3.0*2 USB 2.0*2		USB 3.0*2 USB 2.0*2		USB 3.0*2 USB 2.0*2	USB 3.0*2 USB 2.0*2	USB 3.0*2 USB 2.0*2	
	LCD display	2.0" @320*240 ILI9342C IPS panel, maximum brightness 853nit				2.0" @320*240 ILI9342C IPS panel, maximum brightness 853nit		2.0" @320*240 ILI9342C IPS panel, maximum brightness 853nit		2.0" @320*240 ILI9342C IPS panel, maximum brightness 853nit			7 inches interactive Touch display screen	
	Control	ESP32 *1	ESP32 *1	ESP32 *1	ESP32 *1	ESP32 *1	ESP32 *1	ESP32 *1	ESP32 *1	ESP32 *2	ESP32 *2		ESP32 *3	
	Core parameter	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth		240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth
	Core IO	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33	G19,G21,G22,G23, G25,G33				Left and right arms respectively G19,G21, G22,G23,G25,G33
	Master	ESP32	raspberry pi	JetsonNano2G	Extensible Arduino UNO/MEGA/MKR Series	ESP32	raspberry pi	ESP32	raspberry pi	ESP32	raspberry pi	raspberry pi	raspberry pi	raspberry pi 4B 4G
	Core CPU		Broadcom BCM2711, 64位 1.5GHz Four nuclear	Quad-core ARM®A57@ 1.43 GHz			Broadcom BCM2711, 64位 1.5GHz Four nuclear		Broadcom BCM2711, 64位 1.5GHz Four nuclear	240MHz dual core. 600 DMIPS, 520KB SRAM. Wi-Fi, dual mode Bluetooth	Broadcom BCM2711, 64位 1.5GHz Four nuclear	Broadcom BCM2711, 64位 1.5GHz Four nuclear	Broadcom BCM2711, 64位 1.5GHz Four nuclear	Broadcom BCM2711, 64位 1.5GHz Four nuclear
	Core GPU		500 MHz VideoCore VI	128-core NVIDIA Maxwell™			500 MHz VideoCore VI		500 MHz VideoCore VI		500 MHz VideoCore VI	500 MHz VideoCore VI	500 MHz VideoCore VI	500 MHz VideoCore VI
	Core so		*1	*1			*1		*1		*1	*1	*1	*1
	Core bluetooth	2.4G/5G	2.4G/5G	2.4G/5G		2.4G/5G	2.4G/5G	2.4G/5G	2.4G/5G	2.4G/5G	2.4G/5G	2.4G/5G	2.4G/5G	2.4G/5G
	Core wireless	2.4G 3D Antenna	802.11ac	802.11ac		2.4G 3D Antenna	802.11ac	2.4G 3D Antenna	802.11ac	2.4G 3D Antenna	802.11ac	802.11ac	802.11ac	802.11ac
	Core video interface		microHDMI*2	HDMI*1			microHDMI*2		microHDMI*2		microHDMI*2	microHDMI*2	microHDMI*2	HDMI*1
motor type	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	High performance servo	Hammonic motor High performance servo	High performance servo	
Joint link parameters	Joint rotation Angle	J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175	J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175	J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175	J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175	J1 -160 ~ +160 J2 -90 ~ +90 J3 -180 ~ +45 J4 -160 ~ +160 J5 -100 ~ +100 J6 -180 ~ +181	J1 -160 ~ +160 J2 0 ~ +90 J3 0 ~ +60 J4 -175 ~ +175	J1 -160 ~ +160 J2 -90 ~ +90 J3 -180 ~ +45 J4 -160 ~ +160 J5 -100 ~ +100 J6 -180 ~ +180	J1 -160 ~ +160 J2 -90 ~ +90 J3 -180 ~ +45 J4 -160 ~ +160 J5 -100 ~ +100 J6 -180 ~ +180	J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175	J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175	J1 -180 ~ +180 J2 -270 ~ +90 J3 -150 ~ +150 J4 -260 ~ +80 J5 -168 ~ +168 J6 -174 ~ +174	Left and right arm: J1 -165 ~ +165 J2 -165 ~ +165 J3 -165 ~ +165 J4 -165 ~ +165 J5 -165 ~ +165 J6 -175 ~ +175 Waist: J1 -120 ~ +120	
Factory function	Free to move	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Joint movement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Cartesian motion	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Track record	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Wireless control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Scram button									✓	✓	✓	✓	
	Collision detection											✓	Self interference operation is supported	
Development system	Windows	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Linux	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	MAC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Develop software	RoboFlow	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	myblockly	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Mind+	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	UiFlow	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Arduino	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
firmware update	mystudio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Communication	Serial port control protocol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Industrial communication	TCP/IP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	MODBUS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Input port (INPUT)		1, 2, 3, 5, 18,19,21,22, 23,25,26,35, 36	2,3,4,5, 6,7,9, 11,12,13, 16,17,18,19, 20,21,22,23, 24,25,26,27	2,3,4,5, 6,7,9, 11,12,13, 16,17,18,19, 20,21,22,23, 24,25,26,27	I/Os on the panel areSwitch function, Depending on the expansion board.	1, 2, 3, 5, 18,19,21,22, 23,25,26,35, 36	2,3,4,5, 6,7,9, 11,12,13, 16,17,18,19, 20,21,22,23, 24,25,26,27	1, 2, 3, 5, 18,19,21,22, 23,25,26,35, 36	2,3,4,5, 6,7,9, 11,12,13, 16,17,18,19, 20,21,22,23, 24,25,26,27	IN1.IN2.IN3. IN4.IN5.IN6	IN1.IN2.IN3. IN4.IN5.IN6	IN1.IN2.IN3. IN4.IN5.IN6	3.3vIO:12个(11-12) Grove: 2个(13-16)	