

JAKA All-in-one Collaborative Robots



Smart

Equipped with vision system to recognize objects



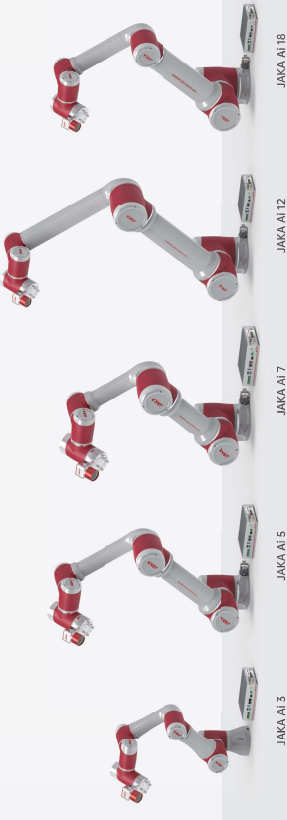
Simple

Plug-and-play Wireless connection



Small

Small footprint Compact design



	JAKA AI 3	JAKA AI 5	JAKA AI 7	JAKA AI 12	JAKA AI 18
Product parameters					
Maximum payload	3kg	5kg	7kg	12kg	18kg
Weight	12kg	23kg	22kg	41kg	35kg
Working radius	626mm	954mm	819mm	1327mm	1073mm
Repeatability	±0.02mm	±0.02mm	±0.02mm	±0.03mm	±0.03mm
Number of axis	6	6	6	6	6
Programming	Drag teaching and graphic programming	Drag teaching and graphic programming	Drag teaching and graphic programming	Drag teaching and graphic programming	Drag teaching and graphic programming
Teaching pendant	PC, mobile (PAD/mobile)	PC, mobile (PAD/mobile)	PC, mobile (PAD/mobile)	PC, mobile (PAD/mobile)	PC, mobile (PAD/mobile)
Robot joint	Working range	Working range	Working range	Working range	Working range
Joint 1	±360°	±360°	±360°	±360°	±360°
Joint 2	-85°~+265°	-85°~+265°	-85°~+265°	-85°~+265°	-85°~+265°
Joint 3	±175°	±175°	±175°	±175°	±175°
Joint 4	-85°~+265°	-85°~+265°	-85°~+265°	-85°~+265°	-85°~+265°
Joint 5	±360°	±360°	±360°	±360°	±360°
Joint 6	±360°	±360°	±360°	±360°	±360°
Maximum speed of the tool end	1.5m/s	3m/s	2.5m/s	3m/s	3.5m/s
Specifications					
Power consumption	150W	350W	350W	500W	600W
IP classification	IP54	IP54	IP54	IP54	IP54
I/O ports	2 digital input, 2 digital output, 1 analog output	2 digital input, 2 digital output, 1 analog output	2 digital input, 2 digital output, 1 analog output	2 digital input, 2 digital output, 1 analog output	2 digital input, 2 digital output, 1 analog output
Base diameter	129mm	158mm	158mm	188mm	188mm
Lens focal length	8mm	8mm	8mm	8mm	8mm
Color mode	B&W/Color	B&W/Color	B&W/Color	B&W/Color	B&W/Color
Vision	>70mm*50mm	>70mm*50mm	>70mm*50mm	>70mm*50mm	>70mm*50mm
Precision	>0.08mm	>0.08mm	>0.08mm	>0.08mm	>0.08mm
Communications interface	Ethernet interface (TCP/IP protocol)	Ethernet interface (TCP/IP protocol)	Ethernet interface (TCP/IP protocol)	Ethernet interface (TCP/IP protocol)	Ethernet interface (TCP/IP protocol)
Resolution	2592(H)×1944(V)	2592(H)×1944(V)	2592(H)×1944(V)	2592(H)×1944(V)	2592(H)×1944(V)
Frame rate	24FPS	24FPS	24FPS	24FPS	24FPS
Input power	DC30~60V	DC30~60V	DC30~60V	DC30~60V	DC30~60V
Input current	≤40A	≤40A	≤40A	≤40A	≤40A
Size	180×28×47(mm)(L×W×H)	180×28×47(mm)(L×W×H)	180×28×47(mm)(L×W×H)	180×28×47(mm)(L×W×H)	180×28×47(mm)(L×W×H)
IP classification	IP20	IP20	IP20	IP20	IP20
I/O ports	7-way port; Input and output configurable	7-way port; Input and output configurable	7-way port; Input and output configurable	7-way port; Input and output configurable	7-way port; Input and output configurable
Communication	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP	TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP
Weight	About 1.7 kg (including accessories)	About 1.7 kg (including accessories)	About 1.7 kg (including accessories)	About 1.7 kg (including accessories)	About 1.7 kg (including accessories)