

Elfin-Pro

Collaborative Robot

Elfin-Pro collaborative robot is developed on the basis of elfin collaborative robot. It not only has all the advantages of elfin collaborative robot such as a variety models, easy deployment, high precision, high flexibility, double-joint module design and modular design, but also has upgraded the product capability through the integration of cutting-edge Al technology, end force control integration, end vision integration. In addition, it adopts a new elegant and practical surface treatment process which is more stable and reliable. With all these advantages, Elfin-Pro offers a better human-robot collaboration experience and could support wider application scenarios.



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Elfin-Pro

Collaborative Robot

E03-Pro 590mm 3KG



E05-Pro 800mm 5KG



E05L-Pro 950mm 3.5KG



E10-Pro 1000mm 10KG



E10L-Pro







Force Control Integration

a.Internal wiring with better anti-interference ability

b.Constant force control for perfectly trajectory fit

c.Fast programming

d.Soft control with smooth free-drive teaching

e.Force exploration suitable to intelligent assembly which makes the small batches and flexible production of multiple varieties to be possible.



Camera System

a.Internal wiring enables the robot to have better anti-interference ability and supports fast deployment

b.With visual positioning, visual classification recognition, the object detection, QR code recognition Al application capabilities

c.Han's Robot's self-developed hardware and software which is easy to operate and pretty interactive and scalable.



Internal Wiring

Han's robot is connected to the force control and Al vision system through internal wiring, which reduces the number and length of external cables, simplifies the wiring process, and avoids problems of tangled wires and signal interference.



Higher Protection, more applications

With IP66 protection, E PRO robot can be adapted to different production environments which further extending the range of applications.

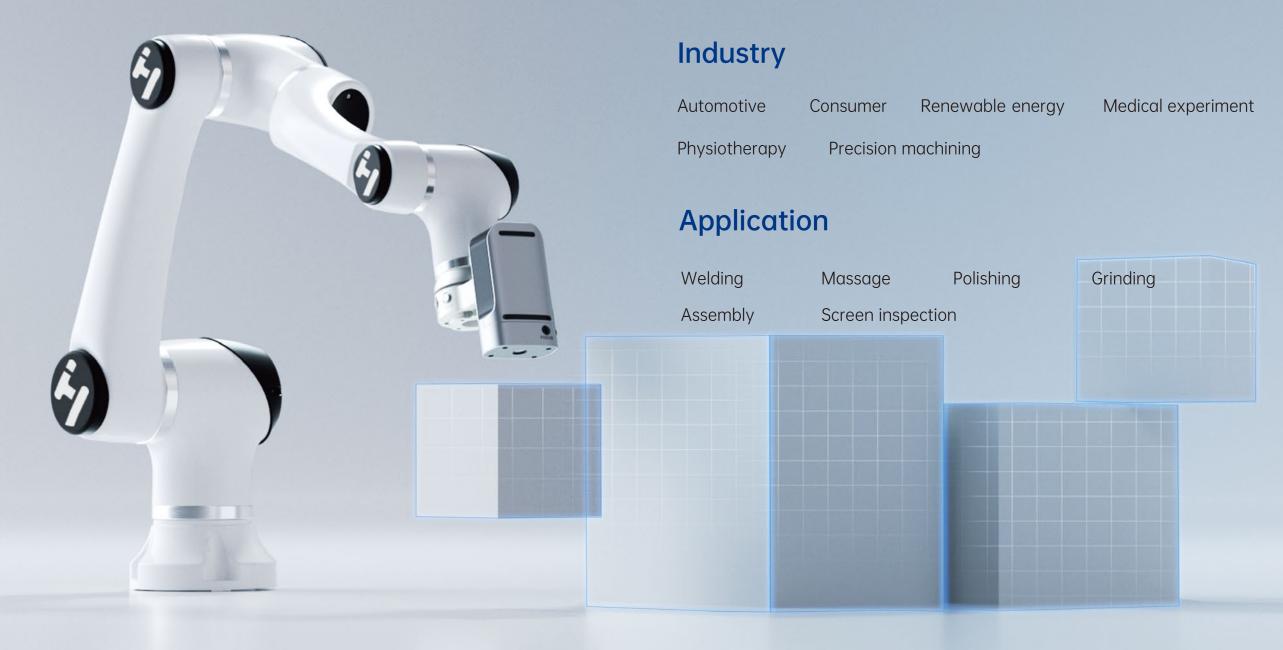


High Sensitivity, much safer

E PRO robot realizes 1000Hz real-time control refresh frequency, which can achieve the industry-leading trajectory precision control, stable and reliable performance, faster response and safer human-machine collaboration.







Tech Specs

Model	Weight	Payload	Reach	Power consumption	Joint rang	ge Joint speed	Tool speed	Repeatability _{of}	Degree f freedo	End I/O port	Control box I/O port	I/O Source	e Communication	Programming	IP classificatio	Collaborative on operation	Main material	Working temperature	Power input	Cable
E03-Pro	18kg	3kg	590mm	100W typical application	1	J1-J4 180°/S J5-J6 200°/S	2m/s	±0.02mm												
E05-Pro	25kg	5kg	800mm	180W typical application	1	J1-J4 180°/S J5-J6 200°/S	3m/s	±0.02mm					TCP/IP							
E05L-Pro	26kg	3.5kg	950mm	180W typical application	±360°	J1-J4 180°/S J5-J6 200°/S	3m/s	±0.02mm	6	Digital input: 3 Digital output: 3 Analog input: 2	Digital input: 16 Digital output: 16 Analog input: 2 Analog output: 2		ModbusTCP Profinet (external conversion) Ethernet/IP	Graphical programming remote call interface	IP54	10 advanced security configuration functions	Aluminum alloy	0-50°C	200-240V AC, 50-60Hz	Cable to the control box: 5m cable to the teach pendant: 5m
E10-Pro	43kg	10kg	1000mm	350W typical application	1	J1-J2 100°/S J3-J4 150°/S J5-J6 180°/S	2m/s	±0.03mm			r maiog carpan z		(external conversion)							0.0 cods., ps. idd. id 0.1.
E10L-Pro	45kg	8kg	1300mm	350W typical application	1	J1-J2 100°/S J3-J4 150°/S J5-J6 180°/S	2.5m/s	±0.03mm												

Force control param	neters (optional)	Vision parameters (optional)					
Force control, tool flange	Force x-y-z、Torque x-y-z	Focus height	100mm~500mm				
Range	200N, 10Nm	Application accuracy	±0.2mm				
Precision	2N, 0.1Nm	Hardware size	93.78mm x 54.45mm x146.24mm				
Accuracy	4N, 0.2Nm	Camera pixels	6 million pixels				
IP classification	IP54orIP66	External vision	Laser sensor or RGBD camera				
		Communication interface	WIFI, network port				
		IP classification	IP54				
		Optional lens	8mm or 16mm				

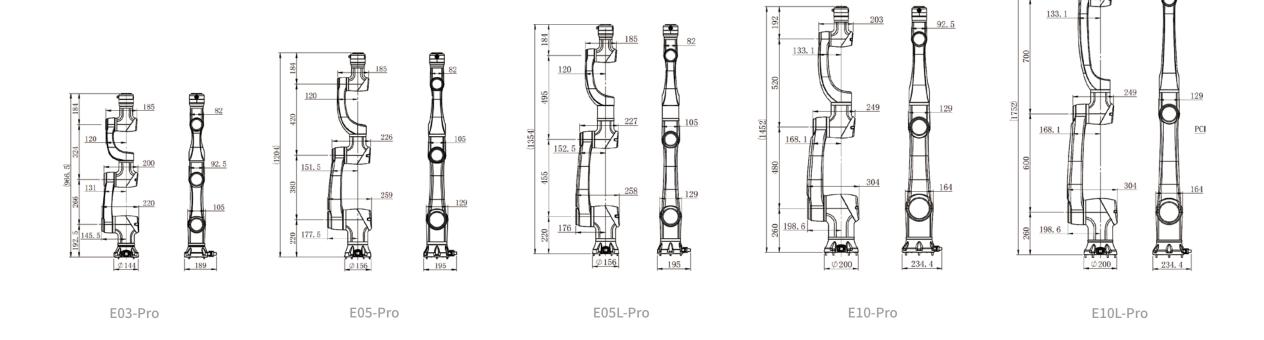
IP Classification Configuration instructions Robot Control Box Teach Pendant Force control Standard control box Standard teach pendant IP54 or IP66 integration Camera System integration Standard control box Standard teach pendant IP54 External WIFI (Optional) (Standard control box) Standard control box Camera System IP54 Standard teach pendant Mini control box integration (Mini control box) Mini Control Box (Optional) Teach Pendant Control Box Dimensions Dimensions 445.2mm x 318.8mm x (360+176)mm Dimensions 327 mm x 230 mm x (45+22) mm 323x221x80(mm) DC30~60V Weight 2.7kg (Include Cable) Stand Height 176mm Power Input Weight 18.5kg I/O Source DC24V Display 10.4" Power Output 48V DC I/O Port 1024 x 800 Inputs 8, Outputs 8 Resolution 0~50°C Working Temperature E-stop Button IP Classification IP20 Working Humidity 90% Relative Humidity (non-condensing) TCP/IP Modbus IP Classification IP54 Communication IP Classification IP20 Communication frequency 250Hz Communication Frequency 1000Hz

Product Configuration

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Drawing (Force control)





Serve Humanity With Robot Technology

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