ESTUN

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ALL MADE BY ESTUN

ESTUN INDUSTRIAL ROBOTS





For a Better Life
让 生 活 更 美 好 !



ESTUN INDUSTRIAL ROBOTS

Close to the Scene For Deep Understanding of Various Complex Processes

ESTUN has always adhered to the strategy of "ALL Made by ESTUN", insisted on system-level forward R&D, with a self-sufficiency rate of over 95% for core robot components. ESTUN boasts a full range of 76 industrial robot products covering loads from 3 to 700kg. In the Chinese market, ESTUN has consistently ranked as the top domestic brand in robot shipments for many years. ESTUN collaborates with leading brands in automotive, photovoltaic, lithium battery, metal processing, electronics manufacturing, building materials and home furnishings, logistics packaging, food & beverage, rail transportation, construction machinery, special vehicles, shipbuilding and marine engineering, and aerospace industries to create benchmark smart manufacturing production lines and factories.

ESTUN INDUSTRIAL ROBOTS

Nanjing ESTUN Automation Co., Ltd., established in 1993, went public on the Shenzhen Stock Exchange in 2015 (stock code: 002747). ESTUN Automation has always adhered to its mission of "Automation for Everyone" and strives to achieve social value of "For a better life". The Company operates three core businesses: automation core components and motion control systems, industrial robots and intelligent manufacturing systems, and digital products and services.

With independent core technologies and excellent products and services, ESTUN Automation has become a leading enterprise in the domestic automation industry and a leading player in the domestic robot industry. Guided by the business philosophy of "Openness, Innovation and Co-growth", the Company works hand in hand with partners to promote the rapid development of China's intelligent and digital industries.

ESTUN Automation has established multiple subsidiaries and manufacturing bases nationwide and owns several wholly-owned or controlling companies overseas, including Trio in the United Kingdom, Cloos and M.A.i. in Germany. The Company has international competitive advantages in automation core components and motion control solutions, industrial robots and intelligent manufacturing solutions, welding robots and intelligent welding solutions.

In the future, ESTUN Automation will join forces with its partners to build a grand blueprint for the intelligent manufacturing industry. With the goal of becoming the leading brand in motion control systems domestically and creating a world-renowned brand for Chinese robots, ESTUN aims to become an internationally respected and globalized enterprise.

A better world deserves our utmost dedication.

EtherCAT CE ISO ISO9001





	ER3-400-SR	ER3-500-SR	ER4-550-SR-U	ER4-650-SR-U	ER6-500-SR
	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot
Number of Axes	4	4	4	4	4
Max. Load	3kg	3kg	4kg	4kg	6kg
Reach of Arm	400mm	500mm	550mm	650mm	500mm
Repeatability	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.025mm J3:±0.015mm ; J4:±0.05°	J1+J2:±0.025mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°
Body Weight	13kg	14kg	21kg	18kg	18kg
IP Grade	IP20	IP20	IP20	IP20	IP20
Installation	Floor	Floor	Floor	Floor	Floor
Certifications Supported	CE、KCS	CE、KCS	CE、KCS	CE、KCS	CE、KCS
Motion Range					
1-Axis	±132°	±132°	±200	±200	±132°
2-Axis	±141°	±141°	±200	±200	±150°
3-Axis	0~150mm	0~150mm	0~150mm	0~150mm	0~200mm
4-Axis	±360°	±360°	±360°	±360°	±360°
Max. Velocity					
1-Axis	720°/s	720°/s	405°/s	405°/s	450°/s
Resultant velocity	7225mm/s	8480mm/s	7271mm/s	8593mm/s	7050mm/s
2-Axis	720°/s	720°/s	705°/s	705°/s	720°/s
3-Axis	1280mm/s	1280mm/s	1120mm/s	1120mm/s	1130mm/s
4-Axis	3000° /s	3000° /s	2800° /s	2800° /s	2300° /s

	ER6-600-SR	ER6-700-SR	ER10-500-SR	ER10-600-SR	ER10-700-SR
	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot
Number of Axes	4	4	4	4	4
Max. Load	6kg	6kg	10kg	10kg	10kg
Reach of Arm	600mm	700mm	500mm	600mm	700mm
Repeatability	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°
Body Weight	18kg	19kg	22kg	23kg	24kg
IP Grade	IP20	IP20	IP20	IP20	IP20
Installation	Floor	Floor	Floor	Floor	Floor
Certifications Supported	CE、KCS	CE、KCS	CE、KCS	CE、KCS	CE、KCS
Motion Range					
1-Axis	±132°	±132°	±132°	±132°	±132°
2-Axis	±150°	±150°	±150°	±150°	±150°
3-Axis	0~200mm	0~200mm	0~200mm	0~200mm	0~200mm
4-Axis	±360°	±360°	±360°	±360°	±360°
Max. Velocity					
1-Axis	450°/s	450°/s	450°/s	450°/s	450°/s
Resultant velocity	7770mm/s	8488mm/s	7050mm/s	7770mm/s	7485mm/s
2-Axis	720°/s	720°/s	720°/s	720°/s	720°/s
3-Axis	1130mm/s	1130mm/s	1350mm/s	1350mm/s	1350mm/s
4-Axis	2300° /s	2300° /s	705° /s	705° /s	705° /s

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ER10-800-SR	ER20-800-SR-HI	ER20-1000-SR-HI	ER20C-850-SR-HI	ER20C-1000-SR-HI	ER50-1200-SR	ER4-550-MI	ER7-910-MI	ER8-720-MI	ER10B-900-MI
SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	SCARA Series Industrial Robot	MINI Series Industrial Robot	MINI Series Industrial Robot	MINI Series Industrial Robot	MINI Series Industrial Robot
4	4	4	4	4	4	6	6	6	6
10kg	20kg	20kg	20kg	20kg	50kg	4kg	7kg	8kg	10kg
800mm	800mm	1000mm	850mm	1000mm	1200mm	550mm	910mm	720mm	900mm
J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.015mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.015mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.015mm ; J4:±0.01°	±0.02mm	±0.03mm	±0.02mm	±0.03mm
25kg	47kg	50kg	58.5kg	60kg	145kg	25kg	48kg	46kg	75kg
IP20	IP20	IP20	IP54	IP54	IP54	IP65	IP67	IP67	IP54
Floor	Floor	Floor	Floor	Floor	Floor	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling
CE、KCS	CE、KCS	CE、KCS	CE	CE	CE	CE	CE	CE	CE
Motion Range									
1-Axis ±128°	1-Axis ±132°	1-Axis ±132°	1-Axis ±165°	1-Axis ±165°	1-Axis ±165°	1-Axis ±170°	1-Axis ±170°	1-Axis ±170°	1-Axis ±176°
2-Axis ±150°	2-Axis ±150°	2-Axis ±150°	2-Axis ±150°	2-Axis ±150°	2-Axis ±150°	2-Axis -90° ~+130°	2-Axis -80° ~+135°	2-Axis -80° ~+135°	2-Axis ±140°
3-Axis 0~200mm	3-Axis 0~420mm	3-Axis 0~420mm	3-Axis 0~400mm	3-Axis 0~400mm	3-Axis 0~400mm	3-Axis -200° ~+65°	3-Axis -90° ~+65°	3-Axis -90° ~+65°	3-Axis -200° ~+70°
4-Axis ±360°	4-Axis ±360°	4-Axis ±360°	4-Axis ±360°	4-Axis ±360°	4-Axis ±360°	4-Axis ±190°	4-Axis ±190°	4-Axis ±190°	4-Axis ±173°
						5-Axis ±120°	5-Axis ±120°	5-Axis ±120°	5-Axis ±130°
						6-Axis ±360°	6-Axis ±360°	6-Axis ±360°	6-Axis ±360°
Max. Velocity									
1-Axis 360°/s	1-Axis 360°/s	1-Axis 360°/s	1-Axis 353°/s	1-Axis 353°/s	1-Axis 225°/s	1-Axis 490° /s	1-Axis 420° /s	1-Axis 420° /s	1-Axis 350° /s
2-Axis 720°/s	2-Axis 590°/s	2-Axis 590°/s	2-Axis 564°/s	2-Axis 564°/s	2-Axis 300°/s	2-Axis 407° /s	2-Axis 380° /s	2-Axis 380° /s	2-Axis 350° /s
Resultant velocity 8063mm/s	Resultant velocity 9550mm/s	Resultant velocity 10806mm/s	Resultant velocity 9666mm/s	Resultant velocity 10590mm/s	Resultant velocity 8220mm/s	3-Axis 520° /s	3-Axis 450° /s	3-Axis 450° /s	3-Axis 355° /s
3-Axis 1350mm/s	3-Axis 1220mm/s	3-Axis 1220mm/s	3-Axis 1120mm/s	3-Axis 1120mm/s	3-Axis 1220mm/s	4-Axis 655° /s	4-Axis 550° /s	4-Axis 550° /s	4-Axis 480° /s
						5-Axis 700° /s	5-Axis 500° /s	5-Axis 500° /s	5-Axis 400° /s
4-Axis 705° /s	4-Axis 705° /s	4-Axis 705° /s	4-Axis 705° /s	4-Axis 705° /s	4-Axis 705° /s	6-Axis 823° /s	6-Axis 850° /s	6-Axis 850° /s	6-Axis 500° /s



ER10B-900-MI/3
MINI Series Industrial Robot



ER10B-900-MI/4
MINI Series Industrial Robot



ER15-1430-MI
MINI Series Industrial Robot



ER20-1200-MI
MINI Series Industrial Robot



ER10-2010-HI
Small-Load Series Industrial Robot



ER12B-1510
Small-Load Series Industrial Robot



ER20B-1760
Small-Load Series Industrial Robot



ER20B-1760-HI
Small-Load Series Industrial Robot



ER20-2300-HI
Small-Load Series Industrial Robot



ER30B-2700
Small-Load Series Industrial Robot

	ER10B-900-MI/3	ER10B-900-MI/4	ER15-1430-MI	ER20-1200-MI	ER10-2010-HI	ER12B-1510	ER20B-1760	ER20B-1760-HI	ER20-2300-HI	ER30B-2700
Number of Axes	3	4	6	6	6	6	6	6	6	6
Max. Load	10kg	10kg	15kg	20kg	10kg	12kg	20kg	20kg	20kg	30kg
Reach of Arm	900mm	900mm	1430mm	1200mm	2010mm	1527mm	1756mm	1756mm	2300mm	2700mm
Repeatability	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.03mm	±0.05mm
Body Weight	50kg	52kg	155kg	148kg	275kg	164kg	273kg	273kg	502kg	520kg
IP Grade	IP54	IP54	IP67	IP67	Wrist IP65, Body IP54	Wrist IP67, Body IP54	Wrist IP65, Body IP54	Wrist IP65, Body IP54	IP54	Wrist IP65, Body IP54
Installation	Ceiling	Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor	Floor
Certifications Supported	-	-	CE	CE	CE	CE	CE	CE	CE	CE
Motion Range										
1-Axis	±140°	±140°	±170°	±170°	±170°	±170°	±170°	±170°	±180°	±180°
2-Axis	-200° ~+70°	-200° ~+70°	±140°	±140°	-100° ~+155°	-90° ~+155°	-100° ~+155°	-100° ~+155°	-90° ~+135°	-90° ~+135°
3-Axis	±115°	±115°	-250° ~+70°	-250° ~+70°	-160° ~+86°	-145° ~+85°	-160° ~+86°	-160° ~+86°	-185° ~+80°	-185° ~+80°
4-Axis		±360°	±210°	±210°	±200°	±200°	±200°	±200°	±200°	±200°
5-Axis			±130°	±130°	±135°	±135°	±135°	±135°	±130°	±130°
6-Axis			±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
Max. Velocity										
1-Axis	353° /s	320° /s	270° /s	270° /s	206° /s	242° /s	206° /s	206° /s	172° /s	172° /s
2-Axis	355° /s	355° /s	250° /s	250° /s	206° /s	242° /s	206° /s	206° /s	119° /s	134° /s
3-Axis	400° /s	400° /s	380° /s	380° /s	238° /s	283° /s	238° /s	238° /s	206° /s	186° /s
4-Axis		480° /s	520° /s	520° /s	480° /s	480° /s	480° /s	480° /s	255° /s	255° /s
5-Axis			460° /s	450° /s	412° /s	412° /s	412° /s	330° /s	330° /s	330° /s
6-Axis			700° /s	700° /s	356° /s	705° /s	705° /s	407° /s	407° /s	407° /s












	ER35B-1810	ER50B-2100	ER70B-2100	ER100B-3000	ER100B-3500-DW
	Small-Load Series Industrial Robot	Small-Load Series Industrial Robot	Small-Load Series Industrial Robot	Small-Load Series Industrial Robot	Large Load Series Industrial Robot
Number of Axes	6	6	6	6	6
Max. Load	35kg	50kg	70kg	100kg	100kg
Reach of Arm	1813mm	2110mm	2110mm	3000mm	3500mm
Repeatability	±0.04mm	±0.05mm	±0.05mm	±0.06mm	±0.06mm
Body Weight	277kg	522kg	522kg	1053kg	1050kg
IP Grade	Wrist IP65, Body IP54	Wrist IP65, Body IP54	Wrist IP65, Body IP54	Wrist IP65, Body IP54	Wrist IP65, Body IP54
Installation	Floor	Floor/Ceiling	Floor/Ceiling	Floor	Rack mounting
Certifications Supported	CE	CE	CE	CE	CE
Motion Range					
1-Axis	±170°	±180°	±180°	±180°	±180°
2-Axis	-100° ~+155°	-90° ~+135°	-90° ~+135°	-60° ~+80°	-40° ~+170°
3-Axis	-160° ~+86°	-185° ~+80°	-185° ~+80°	-95° ~+80°	-95° ~+80°
4-Axis	±200°	±200°	±200°	±200°	±200°
5-Axis	±130°	±130°	±130°	±130°	±130°
6-Axis	±360°	±360°	±360°	±360°	±360°
Max. Velocity					
1-Axis	206° /s	172° /s	172° /s	120° /s	120° /s
2-Axis	206° /s	119° /s	134° /s	110° /s	110° /s
3-Axis	238° /s	186° /s	186° /s	120° /s	120° /s
4-Axis	480° /s	255° /s	245° /s	140° /s	125° /s
5-Axis	330° /s	254° /s	245° /s	200° /s	200° /s
6-Axis	407° /s	366° /s	355° /s	285° /s	285° /s

	ER130B-3200	ER160B-3200	ER170B-2650	ER220-2700	ER220-3100
	Large Load Series Industrial Robot	Large Load Series Industrial Robot	Large Load Series Industrial Robot	Large Load Series Industrial Robot	Large Load Series Industrial Robot
Number of Axes	6	6	6	6	6
Max. Load	130kg	160kg	170kg	220kg	220kg
Reach of Arm	3200mm	3200mm	2650mm	2700mm	3100mm
Repeatability	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm
Body Weight	1120kg	1150kg	1090kg	1320kg	1345kg
IP Grade	Wrist IP65, Body IP54	Wrist IP65, Body IP54	Wrist IP65, Body IP54	Wrist IP67, Body IP54	Wrist IP67, Body IP54
Installation	Floor	Floor	Floor	Floor	Floor
Certifications Supported	CE	CE	CE	CE	CE
Motion Range					
1-Axis	±180°	±180°	±180°	±180°	±180°
2-Axis	-60° ~+80°	-60° ~ +80°	-60° ~+80°	-60° ~ +80°	-60° ~ +80°
3-Axis	-95° ~+80°	-95° ~ +80°	-95° ~+80°	-180° ~+80°	-180° ~+80°
4-Axis	±250°	±250°	±200°	±360°	±360°
5-Axis	±125°	±125°	±125°	±125°	±125°
6-Axis	±360°	±360°	±360°	±360°	±360°
Max. Velocity					
1-Axis	128° /s	128° /s	120° /s	120° /s	120° /s
2-Axis	110° /s	100° /s	110° /s	100° /s	100° /s
3-Axis	120° /s	110° /s	120° /s	100° /s	100° /s
4-Axis	165° /s	165° /s	205° /s	182° /s	170° /s
5-Axis	200° /s	150° /s	220° /s	175° /s	140° /s
6-Axis	220° /s	200° /s	310° /s	235° /s	210° /s



ER270-2700
Large Load Series Industrial Robot



ER280-3200
Large Load Series Industrial Robot



ER350-3200
Large Load Series Industrial Robot



ER350-3300
Large Load Series Industrial Robot



ER420-3300
Large Load Series Industrial Robot



ER500-2800
Large Load Series Industrial Robot



ER700-2800
Large Load Series Industrial Robot



ER45-2200-BD
Bending Series Industrial Robot



ER80B-2565-BD
Bending Series Industrial Robot

	ER270-2700	ER280-3200	ER350-3200	ER350-3300	ER420-3300	ER500-2800	ER700-2800	ER45-2200-BD	ER80B-2565-BD
Number of Axes	6	6	6	6	6	6	6	6	6
Max. Load	270kg	280kg	350kg	350kg	420kg	500kg	700kg	45kg	80kg
Reach of Arm	2700mm	3200mm	3200mm	3300mm	3300mm	2800mm	2800mm	2200mm	2565mm
Repeatability	±0.06mm	±0.06mm	±0.06mm	±0.1mm	±0.1mm	±0.1mm	±0.1mm	±0.03mm	±0.04mm
Body Weight	1350kg	1550kg	1850kg	2650kg	2980kg	1120kg	2930kg	520kg	730kg
IP Grade	Wrist IP67, Body IP54	Wrist IP65, Body IP54	Wrist IP65, Body IP54	IP54	IP54	IP54	IP54	IP54	IP54
Installation	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor
Certifications Supported	CE	CE	CE	CE	CE	CE	CE	CE	CE
Moton Range									
1-Axis	±180°	±180°	±180°	±180°	±180°	±180°	±180°	±190°	±185°
2-Axis	-60° ~ +80°	-60° ~+90°	-60° ~+90°	-60° ~ +105°	-60° ~ +105°	-60° ~+105°	-60° ~+105°	-70° ~+110°	-67° ~+150°
3-Axis	-180° ~+80°	-30° ~+125°	-30° ~+125°	-30° ~ +125°	-30° ~ +125°	-30° ~+140°	-30° ~+140°	-95° ~+62°	-190° ~+66°
4-Axis	±360°	±200°	±200°	±200°	±200°	±200°	±200°	+200°	±200°
5-Axis	±125°	±125°	±125°	±115°	±115°	±115°	±115°	±130°	±130°
6-Axis	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°
Max. Velocity									
1-Axis	120° /s	115° /s	120° /s	80° /s	80° /s	80° /s	80° /s	172° /s	114° /s
2-Axis	100° /s	100° /s	100° /s	100° /s	100° /s	100° /s	100° /s	119° /s	108° /s
3-Axis	100° /s	100° /s	100° /s	100° /s	100° /s	100° /s	100° /s	193° /s	133° /s
4-Axis	170° /s	175° /s	180° /s	114° /s	114° /s	114° /s	114° /s	296° /s	255° /s
5-Axis	140° /s	145° /s	130° /s	87° /s	87° /s	87° /s	70° /s	247° /s	197° /s
6-Axis	210° /s	200° /s	230° /s	158° /s	158° /s	158° /s	158° /s	355° /s	285° /s





	ER130-2865-BD	ER60-2000-PL	ER120-2400-PL	ER180-3100-PL	ER500-3200-PL
	Bending Series Industrial Robot	Palletizing Series Industrial Robot	Palletizing Series Industrial Robot	Palletizing Series Industrial Robot	Palletizing Series Industrial Robot
Number of Axes	6	4	4	4	4
Max. Load	130kg	60kg	120kg	180kg	500kg
Reach of Arm	2865mm	2000mm	2400mm	3060mm	3200mm
Repeatability	±0.04mm	±0.03mm	±0.04mm	±0.04mm	±0.1mm
Body Weight	950kg	500kg	1050kg	1120kg	2083kg
IP Grade	IP54	IP54	IP54	IP54	IP54
Installation	Floor	Floor	Floor	Floor	Floor
Certifications Supported	CE	CE	CE	CE	CE
Motion Range					
1-Axis	±180°	±180°	±180°	±180°	±180°
2-Axis	-70° ~+90°	-35° ~+90°	-40° ~+85°	-40° ~+90°	-45° ~+90°
3-Axis	-200° ~+68°	-10° ~+110°	-20° ~+108°	-17° ~+108°	-15° ~+120°
4-Axis	±200°	±360°	±360°	±360°	±360°
5-Axis	±125°				
6-Axis	±360°				
Max. Velocity					
1-Axis	112° /s	170° /s	114° /s	114° /s	85° /s
2-Axis	106° /s	148° /s	120° /s	108° /s	90° /s
3-Axis	106° /s	185° /s	149° /s	118° /s	90° /s
4-Axis	204° /s	285° /s	295° /s	295° /s	200° /s
5-Axis	198° /s				
6-Axis	212° /s				

	ER8-1450-HW	ER12-2000-HW	ER8-1500-CW	ER8-2000-CW
	Welding Series Industrial Robot	Welding Series Industrial Robot	Welding Series Industrial Robot	Welding Series Industrial Robot
Number of Axes	6	6	6	6
Max. Load	8kg	12kg	8kg	8kg
Reach of Arm	1445mm	2015mm	1527mm	2010mm
Repeatability	±0.08mm	±0.08mm	±0.05mm	±0.05mm
Body Weight	170kg	286kg	165kg	281kg
IP Grade	IP54	IP54	IP54	IP54
Installation	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling
Certifications Supported	CE	CE	CE	CE
Motion Range				
1-Axis	±170°	±170°	±170°	±170°
2-Axis	-85° ~ +160°	-100° ~155°	-90° ~155°	-100° ~155°
3-Axis	-150° ~ +85°	-160° ~86°	-145° ~85°	-160° ~86°
4-Axis	±150°	±200°	±170°	±170°
5-Axis	±135°	±135°	±135°	±135°
6-Axis	±210°	±210°	±360°	±360°
Max. Velocity				
1-Axis	240° /s	206° /s	242° /s	180° /s
2-Axis	240° /s	206° /s	242° /s	180° /s
3-Axis	260° /s	238° /s	283° /s	242° /s
4-Axis	440° /s	442° /s	476° /s	480° /s
5-Axis	400° /s	412° /s	412° /s	412° /s
6-Axis	700° /s	700° /s	685° /s	705° /s







ER15-1520-PR
Punching Series Industrial Robot

ER150-3200-PR
Punching Series Industrial Robot

ER30B-1810-P
High Protection Series Industrial Robot

ER50B-2100-P
High Protection Series Industrial Robot

ER170-2650-P
High Protection Series Industrial Robot








ER10-500-SR-C
Clean Series Industrial Robot

ER10-600-SR-C
Clean Series Industrial Robot

ER10-700-SR-C
Clean Series Industrial Robot

ER10-800-SR-C
Clean Series Industrial Robot

ER7-910-MI-PI-C
Clean Series Industrial Robot

ER8-720-MI-PI-C
Clean Series Industrial Robot

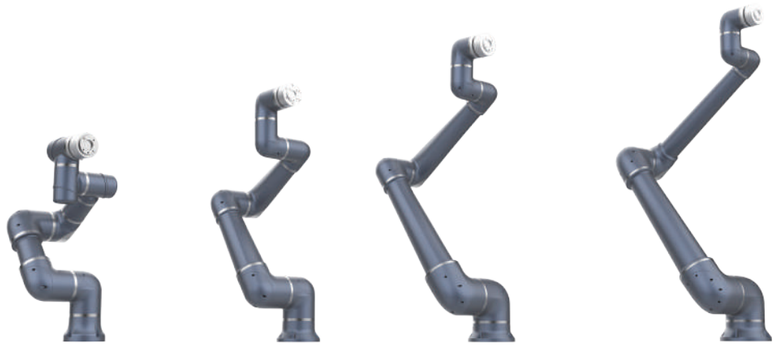
Number of Axes	4	6	6	6	6	4	4	4	4	6	6
Max. Load	15kg	150kg	30kg	50kg	170kg	10kg	10kg	10kg	10kg	7kg	8kg
Reach of Arm	1520mm	3200mm	1813mm	2110mm	2650mm	500mm	600mm	700mm	800mm	910mm	720mm
Repeatability	±0.03mm	±0.06mm	±0.04mm	±0.08mm	±0.06mm	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	J1+J2:±0.02mm J3:±0.01mm ; J4:±0.01°	±0.03mm	±0.02mm
Body Weight	160kg	1350kg	284kg	550kg	1050kg	23kg	24kg	25kg	25kg	48kg	48kg
IP Grade	IP54	Wrist IP65, Body IP54	Wrist IP67, Body IP54	Wrist IP67, Body IP54	Wrist IP67, Body IP54	ISO Class 4	ISO Class 4	ISO Class 4	ISO Class 4	IP Grade: IP65 Cleanliness: ISO Class 5	IP Grade: IP65 Cleanliness: ISO Class 5
Installation	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor/Ceiling	Floor/Ceiling
Certifications Supported	CE	CE	CE	CE	CE	CE、KCS	CE、KCS	CE、KCS	CE、KCS	CE	CE

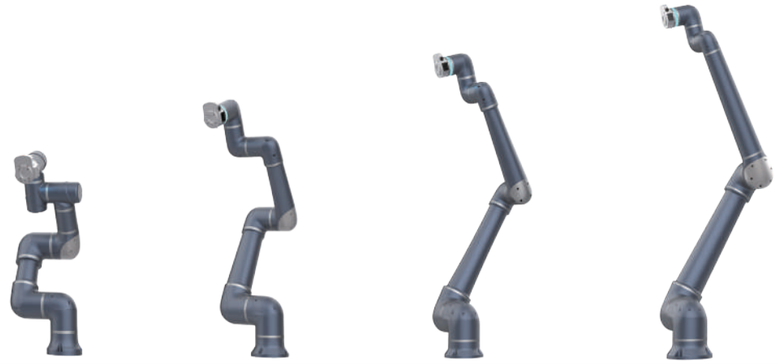
Motion Range

1-Axis	±180°	1-Axis	±180°	1-Axis	±170°	1-Axis	±180°	1-Axis	±180°	1-Axis	±130°	1-Axis	±130°	1-Axis	±130°	1-Axis	±130°	1-Axis	±170°	1-Axis	±170°
2-Axis	-40° ~+90°	2-Axis	-60° ~+80°	2-Axis	-100° ~+155°	2-Axis	-90° ~+135°	2-Axis	-60° ~+80°	2-Axis	±150°	2-Axis	±150°	2-Axis	±150°	2-Axis	±150°	2-Axis	-80° ~+135°	2-Axis	-80° ~+135°
3-Axis	-15° ~+105°	3-Axis	-180° ~+80°	3-Axis	-160° ~+86°	3-Axis	-185° ~+80°	3-Axis	-95° ~+80°	3-Axis	0~200mm	3-Axis	0~200mm	3-Axis	0~200mm	3-Axis	0~200mm	3-Axis	-90° ~+65°	3-Axis	-90° ~+65°
4-Axis	±360°	4-Axis	±300°	4-Axis	±200°	4-Axis	±200°	4-Axis	±200°	4-Axis	±360°	4-Axis	±360°	4-Axis	±360°	4-Axis	±360°	4-Axis	±190°	4-Axis	±190°
		5-Axis	±125°	5-Axis	±130°	5-Axis	±130°	5-Axis	±125°									5-Axis	±120°	5-Axis	±120°
		6-Axis	±360°	6-Axis	±360°	6-Axis	±360°	6-Axis	±360°									6-Axis	±360°	6-Axis	±360°

Max. Velocity

1-Axis	250° /s	1-Axis	120° /s	1-Axis	206° /s	1-Axis	172° /s	1-Axis	120° /s	1-Axis	450°/s	Resultant velocity	1-Axis	450°/s	Resultant velocity	1-Axis	450°/s	Resultant velocity	1-Axis	450°/s	Resultant velocity	1-Axis	420° /s	1-Axis	420° /s
2-Axis	215° /s	2-Axis	100° /s	2-Axis	206° /s	2-Axis	119° /s	2-Axis	110° /s	2-Axis	720° /s	7050mm/s	2-Axis	720°/s	7770mm/s	2-Axis	720°/s	7487mm/s	2-Axis	720°/s	8063mm/s	2-Axis	380° /s	2-Axis	380° /s
3-Axis	285° /s	3-Axis	100° /s	3-Axis	238° /s	3-Axis	186° /s	3-Axis	120° /s	3-Axis	1350mm/s		3-Axis	1350mm/s		3-Axis	1350mm/s		3-Axis	1350mm/s		3-Axis	450° /s	3-Axis	450° /s
4-Axis	450° /s	4-Axis	170° /s	4-Axis	480° /s	4-Axis	252° /s	4-Axis	205° /s	4-Axis	705° /s		4-Axis	705° /s		4-Axis	705° /s		4-Axis	705° /s		4-Axis	550° /s	4-Axis	550° /s
		5-Axis	160° /s	5-Axis	320° /s	5-Axis	247° /s	5-Axis	180° /s													5-Axis	500° /s	5-Axis	500° /s
		6-Axis	200° /s	6-Axis	407° /s	6-Axis	359° /s	6-Axis	215° /s													6-Axis	850° /s	6-Axis	850° /s





S3-60 Eco
Collaborative Robot

S5-90 Eco
Collaborative Robot

S10-140 Eco
Collaborative Robot

S20-180 Eco
Collaborative Robot

S3-60 Pro
Collaborative Robot

S5-90 Pro
Collaborative Robot

S10-140 Pro
Collaborative Robot

S20-180 Pro
Collaborative Robot

Model	S3-60 Eco	S5-90 Eco	S10-140 Eco	S20-180 Eco
DOF	6			
Payload (kg)	3	5	10	20
Reach (mm)	575.8	919	1400	1777.5
Repeatability (mm)	±0.03	±0.03	±0.03	±0.1
Weight (kg)	14	21	37	58
Safety	Hand guide, adjustable collisiondetection			
Certification	EN ISO 13849-1 PLd Cat.3 & EN ISO 10218-1			
IP Classification	IP54			
Max. Speed at Tool End (m/s)	2	2.5	2.5	3.2
Working Range	Axis1/2/4/5/6: ±360° Axis3: ±160°			
Max. Speed	[S3/S5/S10] Axis 1/2/3: 150 °/s [S20] Axis1/2: 110 °/s Axis3: 150 °/s Axis 4/5/6: 180 °/s			
Mounting	Any orientation			
Operating Temp.	0 – 50 °C			
Operating Humidity	70% RH			
Flange Connector	[S3/S5/S10] ISO 9409-1-50-4-M6 [S20] ISO 9409-1-50-6-M6			
Flange Communication	2 DI, 2DO，24VDC，MODBUS RTU，RS485			

Model	S3-60 Pro	S5-90 Pro	S10-140 Pro	S20-180 Pro
DOF	6			
Payload (kg)	3	5	10	20
Reach (mm)	575.8	919	1400	1777.5
Repeatability (mm)	±0.03	±0.03	±0.03	±0.1
Weight (kg)	14	21	37	58
Torque Sensor Accuracy - Composition Error (F.S)	<2%			
Torque Sensor Accuracy - Repeatability Error (F.S)	<0.2%			
Safety	Hand guide, adjustable collisiondetection			
Certification	EN ISO 13849-1 PLd Cat.3 & EN ISO 10218-1			
IP Classification	IP54			
Max. Speed at Tool End (m/s)	2	2.5	2.5	3.2
Working Range	Axis1/2/4/5/6: ±360° Axis3: ±160°			
Max. Speed	[S3/S5/S10] Axis1/2/3: 150 °/s [S20] Axis1/2: 110 °/s Axis3: 150 °/s Axis4/5/6: 180 °/s			
Mounting	Any orientation			
Operating Temp.	0 – 50 °C			
Operating Humidity	70% RH			
Flange Connector	ISO 9409-1-50-4-M6			
Flange Communication	2 DI, 2DO，24VDC，MODBUS RTU，RS485			

ALL MADE BY ESTUN

ESTUN CoDroid | Collaborative Robot

Palletizing Solutions

READY TO USE, RAPID DEPLOYMENT

Plug and play, requiring only power and air supply connections for setup within 30 minutes. meeting fast-paced production without professionals to configure.

TERMINAL COMPATIBILITY, UNLIMITED CONNECTION

Supporting PC, tablet, and mobile devices to connect and log in directly via the web to teach pendant interface freely.

GRAPHICAL PROCESS KIT, EASY PROGRAMMING

Professional palletizing package with graphical guidance and no-code programming. Complete palletizing program setup with drag teaching, enabling easy programming in just "3 minutes" with "zero experience".

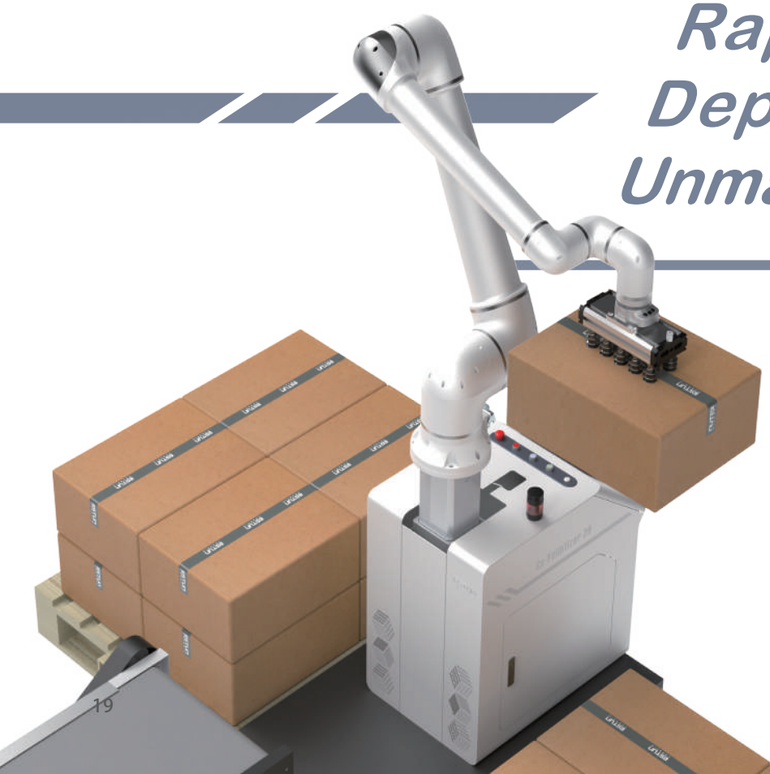
CUSTOMIZABLE STACK PATTERNS, ENSURING STABILITY

Define stack patterns through animated interactions, achieving tighter stacking with leaning palletizing.

MORE FLEXIBILITY, EASY TO MOVE

Compatible with various sizes, weights, and materials of boxes, supporting mixed-size stacking. Easy to move among different production lines, making it ideal for various production and logistics scenarios.

Rapid Palletizing Deployment With Unmatched Speed



Specifications

Model	Co-Palletizer 20 (Fixed)	Co-Palletizer 20 (Elevating)
Payload(kg)	20	
Working Radius	1777.5	
Horizontal Distance(Pallet Size)(mm)	1200*1200	
Max. Joint Speed	Axis1/2：110 ° /s Axis3：150 ° /s Axis4/5/6：180 ° /s	
Repeatability(mm)	±0.1	
Communication	Analog, Digital, MODBUS RTU, MODBUS TCP, CAN, RS485	
IP Classification	IP54(arm)	
Operating temp.(° C)	0 – 50	
Weight(kg)	270	300
Footprint(mm)	1530*1480	
Rated Voltage(V)	220	
Max. Power Consumption(W)	3000	
Palletizing Speed	8-12/min	
Palletizing Height(mm)	1930	2430
Compatible surfaces	Cardboard, smooth surfaces	



ESTUN CoDroid Collaborative Robot

Series-Control Cabinet



COB-A03/05/10/20

Model		COB-A03	COB-A05	COB-A10	COB-A20
Typical power		0.2KW	0.25kW	0.35kW	0.75kW
Peak power		1KW	2kW	2kW	3kW
Power supply	AC	100~240V 50/60Hz			
	DC	48V (-15%~+0%)			
IP classification		IP20			
Working condition		Temperature: 0-40℃, Humidity: 10~90%RH, Non-condensing			
Communication interface	Default	TCP IP, Modbus TCP, RS485			
	Option	PROFINET(slave),EtherNet/IP(slave)			
	Power supply	24V, 2A			
IO interface	Digital	PNP, 16 channels, Input voltage 11-30V, Input current 3mA			
		NPN, 8 channels, Maximum output 125mA for a single group			
	Analog	4 channels, AI: Current mode/voltage mode, AO: Current mode			
		Resolution: 12bit, Voltage: 0~10V/Current: 4~20mA			
	Safety interface	7 channels of safety emergency stop input			
Redevelopment		C#, C++, Python			
Cabinet dimension		380*260*210mm			
Cable length	Default	Robot-Cabinet: 3m, Cabinet power cable: 3m, Handle: 5m			
	Option	Robot-Cabinet: 6/12m			
WIFI		Not supported			

PAD Teach Pendant optional

Teach Pendant	Pad
Weight	550g
Display Size	12.7 inch



End Effectors

Various end effectors can be quickly switched to match multiple industry applications


Handling

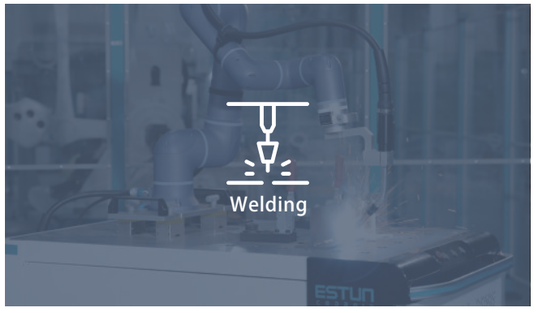

Screw fastening


Polishing


Welding

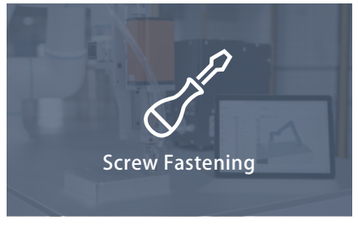

Spraying

Application Scenarios



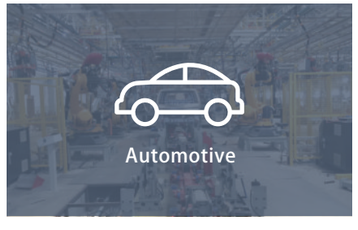














CONTROL SYSTEM

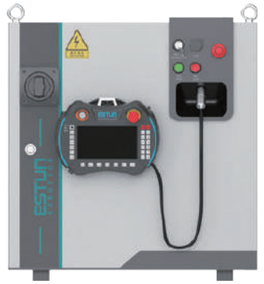
ERC3-C Series Control Cabinet

- A next-generation integrated motion control system with comprehensive performance improvements;
- Volume reduced by more than 50% compared to the previous generation, with power density among the industry's best. Supports vertical, horizontal, and stacked installation for more flexible setup;
- Common DC bus design for energy saving and emission reduction;
- Supports online software upgrades, one-click parameter upload and download, with extensive external interfaces for easy customer wiring;
- Compatible with DI/DO, differential input ABZ, PN gateway, and various expansion cards for greater flexibility;
- Integration of advanced motion planning and vibration suppression algorithms for significantly improved precision and speed;
- Supports TCP/IP communication as well as mainstream bus communications like Profinet, EtherNet/IP, EtherCAT, and ModbusTCP.



ERC3-S Series Control Cabinet (Available in China)

- A next-generation integrated drive and control system to achieve high performance and high reliability;
- Volume reduced by over 50% compared to the previous generation, supporting vertical and stackable installation for increased flexibility;
- Common DC bus design for energy saving and emission reduction;
- Dual-cycle internal and external design achieving IP54 high protection rating;
- Safety stop function compliant with CE requirements, expanding usability scope;
- Brand-new industrial design enhancing safety, convenience, and comfort while improving aesthetics;
- Over 80% reduction in cabinet internal wiring harnesses, with a modular structure for easy disassembly and product maintenance;
- Integration of advanced motion planning and vibration suppression algorithms significantly enhancing precision and speed;
- Supports for TCP/IP communication as well as mainstream bus communications like Profinet, EtherNetIP, Ethercat, ModbusTCP, etc.



ERS Series Electrical Cabinet

- Brand-new industrial design, enhancing safety, convenience, and comfort while improving aesthetics;
- Dual-cycle internal and external design achieving IP54 high protection rating;
- Modular design of internal electrical modules in the control cabinet, coupled with a new heat dissipation solution for improved cooling performance and higher stability;
- Integration of external axis cabinets into the control cabinet, saving on-site space;
- Specific enhancements for the automotive industry including profisafe, managed switches, independent 24V power supply, and aviation plug connections as optional features;
- Supports for TCP/IP communication as well as mainstream bus communications such as Profinet, EtherNetIP, Ethercat, ModbusTCP, etc.



ERT76-A Teach Pendant

- Designed with ergonomic principles for comfortable and lightweight operation;
- Dual-channel safety switches to ensure personnel safety during operation;
- Equipped with USB interface supporting import/export of teach programs;
- Compliant with IP54 protection rating, suitable for harsh operating environments.



ESS Edition CE Functional Safety Products

- Safety stop;
- Safe speed monitoring;
- Safe position and area monitoring;
- Low-speed teach monitoring, 250mm/s speed monitoring;
- TCP end effector position and speed monitoring;
- Safety bus communication, supporting Profisafe, FSoE, CIP-Safety safety protocols;
- Robot certified by TÜV Rheinland, compliant with ISO10218-1 and EN13849;
- Functional safety level: PLd, Cat3.



Additional Axis Electrical Control Products

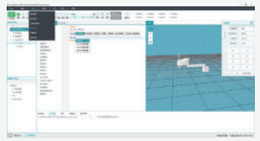
- Versatile applications: single axis, gantry axis, positioners, etc.;
- Flexible configuration: 1 to 3 drives can be housed in the same cabinet;
- Wide range of power options: includes 1KW to 7.5KW full series of custom servo drives and motors from Estun Robotics;
- Optional cable lengths: flexible interconnecting cables available in lengths from 5m to 30m;
- Convenient cabinet placement: allows installation on top of robot control cabinets without occupying additional space.



APPLICATION SOFTWARE

Offline programming software for PC—EstunEditor

ESTUN Robotics programming software adopts a modular design aimed at enhancing user-friendliness. The software offers two programming modes (text/graphical) to cater to different preferences. It provides abundant command prompts and allows users to conveniently write project programs using drag-and-drop graphical interfaces. The software also offers a user-friendly interface for controlling the robot and IO. Additionally, it features a simulation model that demonstrates the current posture of the robot. The software integrates Editor's proprietary visual software, script tools, virtual teaching pendant, and other tools. It includes multiple modules such as zero calibration, tool coordinate calibration, and user coordinate calibration to streamline the debugging process.



Application programming interface—ESTUN API

ESTUN API offers a comprehensive set of interface calling libraries for users to engage in secondary development and achieve control over robots. It provides support for multiple programming languages, including C++, C# and VB, catering to the diverse development needs of users.



Load assessment software—ERLOAD

It supports the evaluation of the load capacity for ESTUN's full range of robots. By inputting parameters such as mass, center of gravity and inertia, users can determine whether the selected robot model is suitable and achieve efficient selection.



PC-based teach pendant software—ERTEACH

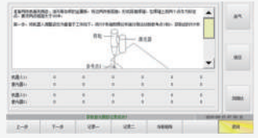
ERTEACH is a PC-based teach pendant software that facilitates user-friendly programming and program viewing.



PROCESS SOFTWARE

ESTUN ARC WELDING

- Supports multiple welding machine communication protocols such as CANopen, CAN, and I/O, adaptable to various mainstream welding machines;
- Provides advanced functionalities including current and voltage monitoring, wire sticking detection with auto-clearing, arc restart, arc backtracking, arc retry, 3D weaving, intermittent welding, positioner collaboration, multi-station scheduling, and power-off recovery;
- Features laser locating and tracking capabilities for precise positioning and real-time tracking of small radius arcs, enhancing welding quality while reducing demands on workpiece consistency;
- Includes an API interface library with arc welding-specific interfaces, catering to customized robot motion control requirements and seamless integration with customer-specific logic or products;
- Supports OPC UA data monitoring, enabling remote arc welding data monitoring when combined with relevant hardware.



Spot Welding

- Supports Profinet, EthemeMP, and I/O communication protocols, compatible with various brands of ESTUN controllers;
- Dedicated spot-welding process interface and commands, simplifying user operations;
- Features electrode cap loss calculation and TCP automatic compensation, electrode holder deflection compensation, workpiece thickness detection, and pressure curve control, enhancing welding quality;
- Supports servo weld gun, pneumatic electrode holder, fixture, and servo weld gun quick change control, which improves system flexibility;
- High-performance dynamic control and path planning algorithms, to increase cycle time, reduce jitter, and enhance accuracy.



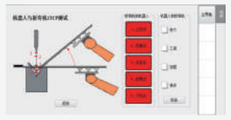
LASER WELDING

- Developed proprietary laser welding software with dedicated laser welding commands for convenient and efficient programming operations;
- Offers a wide range of laser welding process parameters to meet ODM customer application standards;
- Supports analog and digital signal interaction, with reserved EtherCAT communication interface for expandability to other communication methods;
- Features line laser seam finding and laser tracking capabilities for effective identification and tracking of weld seams;
- Enables coordinated control of laser welding parameters such as laser power and wire feeding speed, allowing segmented control of the welding process;
- Supports additional axis linked interpolation functionality.



Bending

- Supports two communication methods: I/O and Ethernet.
- The network communication mode is simple, eliminating the need for complex wiring.
- Enables real-time monitoring of bending machine signals, die parameters, bending speed, etc., allowing for accurate tracking of bending motion.
- Offers flexible layout, allowing for convenient operation without the need for recalibration when changing dies.
- Incorporates high-precision displacement sensors to achieve automatic feeding to ensure bending accuracy.



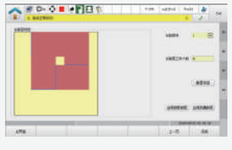
Gluing

- Compatible with popular gluing systems such as SCA and INTEC;
- User-friendly interface with flexible process configuration to meet various application requirements;
- Supports matching of gluing parameters with robot motion speed, allowing for real-time adjustment of gluing parameters to meet quality requirements;
- Provides real-time monitoring through communication, allowing for the inspection of gluing status, flow rate, gas curves, etc.;
- The first domestically developed gluing software package, catering to gluing applications in industries such as automotive and lithium batteries.



Palletizing

- Utilizes a graphical interface design for simple and efficient operation;
- Includes commonly used pallet patterns for easy debugging and supports configuration for complex and custom pallet patterns;
- Built-in palletizing program templates and pre-installed template programs eliminate the need for programming, and use of real-time monitoring makes it easy for users to understand system status.



Pressing

- User-friendly interface with flexible process configuration to meet various application requirements;
- Incorporates safety detection mechanisms to ensure safe interaction between robots and equipment;
- Equipped with high-performance dynamic models, new speed planning, and vibration suppression algorithms, significantly improving operation cycle time and increasing user productivity.



VISION PRODUCT SERIES

ESTUN Vision

ESVision is a powerful 2D machine vision software that integrates various algorithm components for machine vision applications. It can be quickly configured to perform tasks such as object detection, measurement, and defect detection on workpieces or objects under test. Leveraging ESTUN's years of expertise in algorithm technology, the platform boasts a robust library of vision analysis tools, to enable the easy and flexible development of machine vision applications. It can fulfill various requirements in material recognition, locating and sorting, conveyor tracking, measurement, QR code/barcode/character recognition, and inspection in the field of machine vision. It offers abundant features, stable performance and a user-friendly interface. Communication protocols such as TCP/IP, I/O and serial ports are supported, facilitating seamless data interaction with robots, PLCs, and peripheral devices.

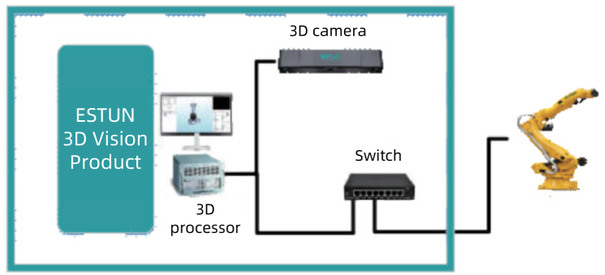


ESTUN 2D Vision System Components:

Hardware: Industrial camera, lens, light source, vision processor, switch, matching cables, security lock, etc.

Software: ESTUN 2D Vision System Software - ESVision2D

3D VISION



ESTUN 3D Vision System Components:

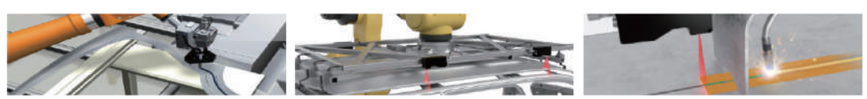
Hardware: 3D industrial camera, 3D vision processor, switch, matching cables

Software: ESTUN 3D Vision System Software

- 3D Vision Random Picking



- 3D Vision Trajectory Guidance



- 3D Vision Online Quality Inspection



Complete Vision Solution of ESTUN



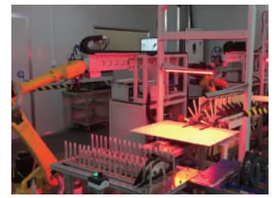
Recognition and Grasping of Condenser Tubes



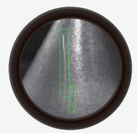
3D Bin-Picking



PV Panel Layout Application



Vision-Guided Gluing



AI Missing Check



QR Code Recognition



Number Recognition



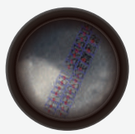
Barcode Recognition



Deformed Character Recognition



Dimension Measurement & Determination



AI Character Detection



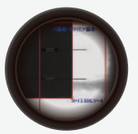
PCB Inspection



Tobacco Visual Inspection



Mobile Phone Positioning & Localization



Precise Positioning of PV Panels



Material Identification and Grasping

Integrated Solution for Visual Control

By integrating the vision software with the robot control system, the system adopts a Client-Server (CS) architecture. The server-side is deployed on the robot controller to handle vision algorithm processing and robot data exchange. The client-side is deployed on the user's computer, allowing the user to configure projects, monitor the server's runtime status, and view image processing results in real time.



Integrated system



Switch



Camera

- Cost reduction for the entire vision and robot solution.
- Improved stability in communication between vision and robot systems.
- 20% reduction in communication latency between vision and robot systems.
- Simplified overall system architecture.

We also offer high-end motion control solutions for the industry

As a leading enterprise in China's intelligent manufacturing industry, ESTUN cultivates and operates two advantageous brands in the motion control field: ESTUN and TRIO. Leveraging a comprehensive product line, ESTUN has developed high-performance motion control solutions tailored to various application scenarios, covering the complete product series from the information layer, control layer, drive layer, to the execution layer. This provides partners with a broader range of solution options. Our product offerings include CNC systems, HMIs, a full range of AC servo systems from 50W to 200kW, linear drives, multiple series of high-end TRIO motion controllers, Motion PLCs, IoT modules, and more. We are committed to delivering efficient, precise, and comprehensive motion control solutions, facilitating the manufacturing industry's transition towards automation, intelligence, and digitalization.

ESTUN

