Collaborative Cobots

X Series



AUCTECH Makes Human Life and Manufacturing More Convenient



AUCTECH Robotics

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About AUCTECH

As the world's leading expert in next-generation intelligent robots and motion control, AUCTECH has been focusing on the R&D and innovation of flexible collaborative robots, industrial robots, motion control and intelligent manufacturing technologies.

Being committed to the field of intelligent manufacturing for a long time and help our customers to continuously improve the level of manufacturing automation, AUCTECH has taken technology research and development as its core, taking the lead in obtaining a number of self-developed patented technologies, and creating many industry firsts along the way: the first 7-Axis collaborative robot in China, the first dual-arm collaborative robot in China, the first 25kg large-load collaborative robot in China, the first 2m-long-arm-spread collaborative robot in China, and the first mobile collaborative robot in China. Driven by AUCTECH, China's collaborative robot industry is rapidly emerging.

Up to now, AUCTECH collaborative robots have been widely used in auto parts, 3C electronics, hardware tooling, automatic sewing, medical treatment, packaging and printing, metal processing, woodworking, energy, semiconductor, education and scientific research and other industries, the products are exported to Southeast Asia, North America, Europe and dozens of other countries and regions, the brand influence is renowned all over the world.

Intelligent collaboration for a better world. AUCTECH will continue to maintain its strength in research and innovation, with the power of wisdom, to promote the collaborative robotics industry, and more customers to go hand in hand to create a better future!





Brand Vision

- To Become A One-stop Supplier of Robotics and Motion Control for Global Market.
- To Improve The Automation Level of Industrial Manufacturing Continuously.
- To Make Human Life More Convenient.

AUCTECH Cobot

- 1 Standard 6-Axis Cobot
- 9 Explosion-proof Cobot (6-Axis)
- 19 7-Axis Cobot
- 23 Dual-arm Cobot

AUCTECH Mobile Cobot

13 AUCTECH Mobile Cobot 17 AUCTECH Delivery System INTELLIGENT COLLABORATION FOR A BETTER WORLD

AUCTECH Mind

27 AUCTECH Mind

Safe

With 16 TUV certified safety functions such as collision detection, force and power monitoring, which enables human robot collaboration.

Smart

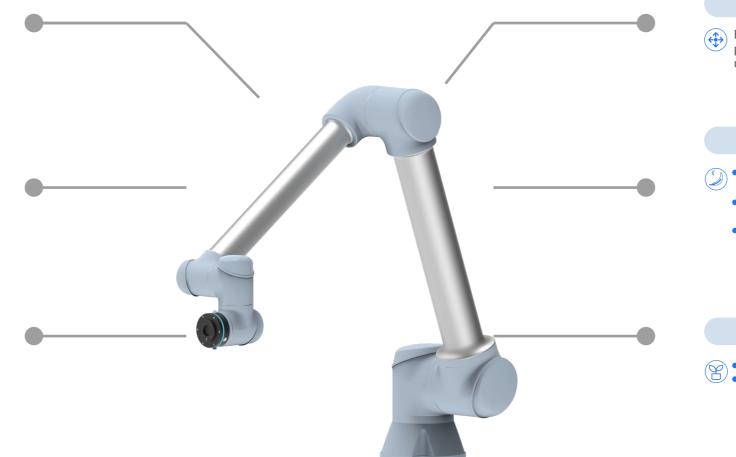
 Multiple scenario software packages added (welding, palletizing, etc.)

- A variety of external interface support (DI, DO, AI/O, etc.)
- Support cloud robot data monitoring, remote OTA upgrade.
- Supports one-click deployment of multiple devices and remote backup of data.

Wide Application

Premium: 30% Faster Trajectory

• 2D/3D vision deep compatibility. • Torque control sensor and other ecological support perfect, support multi-application development.



Product Introduction

There are ten types of 6-axis cobot: X30-1100, X25-1800, X20-1400, X16-2000, X16-960, X12-1300, X10-1300, X7-910, X5-910, X3-618. With significant advantages of higher payload and working range, and features of cobot such as collaborative safety, easy-to-use and energy-saving, these robots can adapt to more application needs.









3C Industry



Industry

l) ல Medical

Industry



Industry

Consumer Goods Industry



Industry

Easy Programming

Easy programming with traction teach programming, less limitation to robot user.

Light and High Rigidity

- High-load robots with load to weight ratios up to 1:2.44.
- Adoption of a new generation of robot control cabinets 50.
- Reduction in size and 30% in weight.

Energy Saving Device

- Power consumption as low as 200W.
 No need to replace lubricating oil.



Education Industry

AUCTECH 02



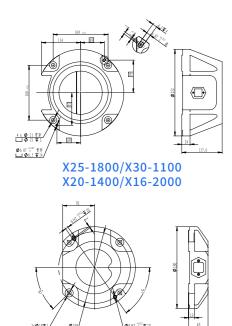




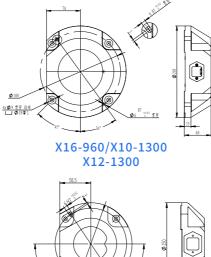
		X30-1100	X25-1800	X20-1400	X16-2000	X16-960
Max Payload		30kg	25kg	20kg	16kg	16kg
Degree	of Freedom	6	6	6	6	6
Max TCF	P Speed	2.0m/s	2.5m/s	2.2m/s	4.0m/s	3.0m/s
Max Stra	aight-line Speed	1.0m/s	1.5m/s	1.0m/s	1.8m/s	1.5m/s
Reach		1100mm	1800mm	1400mm	2000mm	960mm
Repeat	ability	±0.05mm	±0.05mm	±0.05mm	±0.03mm	±0.03mm
Joint	range of motion		Maxs	Speed		
J6	±360°	225°/s	225°/s	225°/s	225°/s	225°/s
J5	±360°	225°/s	225°/s	225°/s	225°/s	225°/s
J4	±360°	225°/s	225°/s	225°/s	225°/s	225°/s
J3	±360°	180°/s	150°/s	180°/s	180°/s	225°/s
J2	±360°	120°/s	100°/s	120°/s	120°/s	180°/s
J1	±360°	120°/s	120°/s	120°/s	120°/s	180°/s
Tool Int	erface		GB/T 14468.1-50-	4-M6(eqv ISO 9409-1)		
End Joi	nt I/O	2 Dig I/O, 24V, 0.6A	2 Dig I/O, 24V, 0.6A	2 Dig I/O, 24V,0.6A	2 Dig I/O, 24V, 0.6A	2 Dig I/O, 24V, 0.6
Power S	Supply		220-240VAC 47-63Hz10	A/100-200VAC 47-63Hz 1	L6A	
Power C	Consumption	Typical Power Consumption 600W	Typical Power Consumption 600W	Typical Power Consumption 600W	Typical Power Consumption 400W	Typical Power Consumption 400
Installat	tion	Land type		Installed in any Direction	n	
IP Class		IP54/IP65	IP54/IP65	IP54/IP65	IP54/IP65	IP54/IP65
Ambien Temper	t ature Range	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~45°C
Storage Temper	ature Range	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C
Robot Dimensions		1395x420x290mm	2300x440x252mm	1695x388x205mm	2300x388x205mm	1180x388x205mi
Robot Package Size		1060x500x600mm	1295x540x515mm	1060x500x600mm	1465x516x472kg	958x508x516mn
Net/Gross Weight		64kg/75kg	61.6kg/70kg	66kg/75kg	60kg/68kg	37kg/45kg

		- -	×	×	07
		50			
X16-960	X12-1300	X10-1300	X7-910	X5-910	X3-618
16kg	12kg	10kg	7kg	5kg	3kg
6	6	6	6	6	6
3.0m/s	3.8m/s	3.8m/s	3.6m/s	3.6m/s	1.0m/s
1.5m/s	1.5m/s	1.5m/s	1.5m/s	1.5m/s	0.8m/s
960mm	1300mm	1300mm	917mm	917mm	618mm
±0.03mm	±0.03mm	±0.03mm	±0.02mm	±0.02mm	±0.02mm
		Max S	Speed		
225°/s	225°/s	225°/s	225°/s	225°/s	225°/s
225°/s	225°/s	225°/s	225°/s	225°/s	225°/s
225°/s	225°/s	225°/s	225°/s	225°/s	225°/s
225°/s	225°/s	225°/s	200°/s	225°/s	225°/s
180°/s	180°/s	180°/s	200°/s	225°/s	225°/s
180°/s	180°/s	180°/s	200°/s	225°/s	225°/s
		GB/T 14468.1-50	-4-M6(eqv ISO 9409-1)		
2 Dig I/O, 24V, 0.6A	2 Dig I/O, 24V, 0.6A				
		100-240VAC	C 47-63Hz 10A		
Typical Power Consumption 400W	Typical Power Consumption 400W	Typical Power Consumption 400W	Typical Power Consumption 200W	Typical Power Consumption 200W	Typical Power Consumption200W
		Installed i	in any Direction		
IP54/IP65	IP54/IP65	IP54/IP65	IP54/IP65	IP54/IP65	IP54/IP65
-10°C~45°C	-10°C~45°C	-10°C~45°C	-10°C~45°C	-10°C~45°C	-10°C~45°C
-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C
1180x388x205mm	1512x388x205mm	1512x388x205mm	1100x330x200mm	1100x330x200mm	769x315x150mm
958x508x516mm	958x508x516mm	958x508x516mm	698x588x450mm	698x588x450mm	532x431x330mm
37kg/45kg	37.8kg/46kg	37.8kg/46kg	22kg/30kg	22kg/30kg	13kg/20kg

Base Flange **>>>**

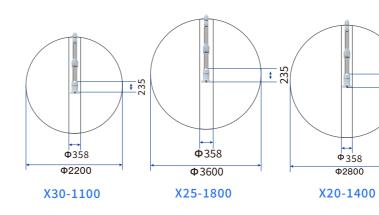


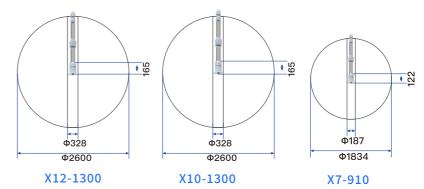
X5-910/X7-910



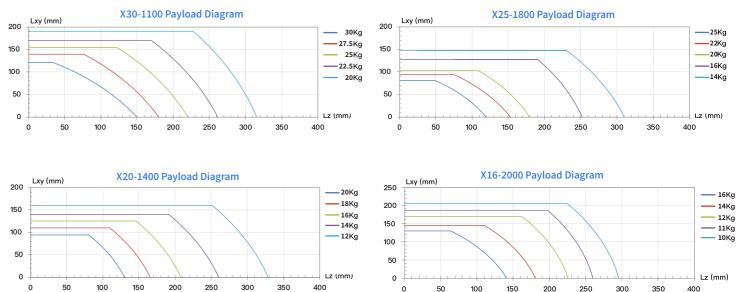


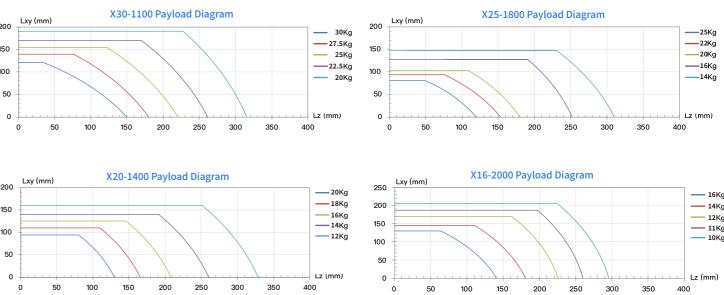
Work Space >>>



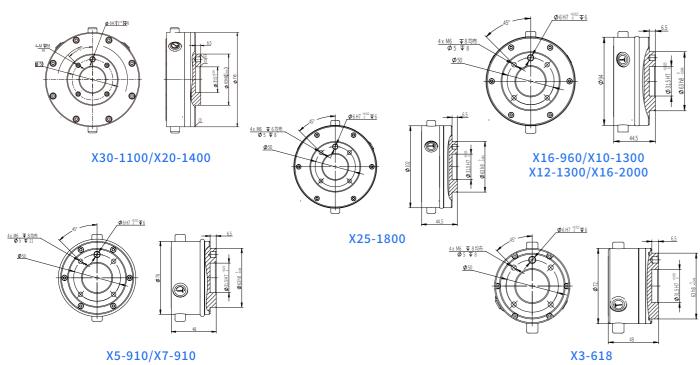


Payload Diagram >>>

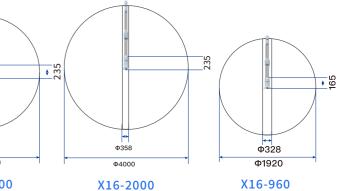




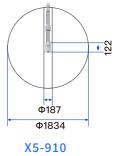
Tool Flange 🕨

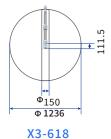






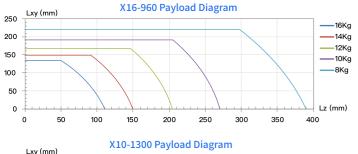
X16-960

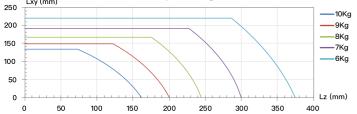


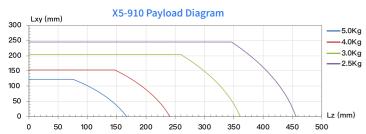


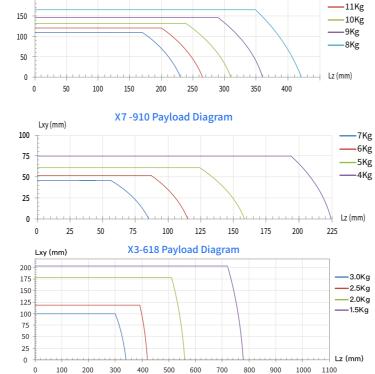
AUCTECH 06

Payload Diagram









X12-1300 Payload Diagram

—12Kg

Lxy (mm)

200

Control Box



Control Box & Teach Pendant



The controller is used to control the robot's operations such as loading and unloading, grasping, polishing, handling, welding, gluing and oiling, as well as realizing the input and output control. The latest AUCTECH controller has tiny volume while taking into account the safety and flexibility, and has better performance in the field of human cooperation. It can be fully compatible with multiple series of robots, and also can be independently applied to automatic control systems.



User Interface

DI	
User DI	16 Channels (8 channels can be equipped with functional DI)
Input Effective Level	PNP, L: -3V-5V, H: 11V-30VDC, 2-15mA
Switching Time	TON: 50ms TOFF: 50ms
DO	
	16 Channels (8 channels can

User DO	16 Channels (8 channels can be equipped with functional DO)		
VOUT	PNP, 22-28V, Max: 0.5A		
LOUT	PNP, <2A (When exceeding 2A, the user needs to expand the power supply)		
Switching Time	TON: 50ms TOFF: 50ms		

AI/O

Analog Signal Output 2 Channels + Analog Signal Input 2 Channels - (Electrical isolation)

Signal Current	4-20mA Accuracy ± 1%		
Input Impedance	160Ω		
Signal Voltage	0-10V Accuracy ± 1% (Factory Default)		
Input Impedance	15kΩ		





SDI

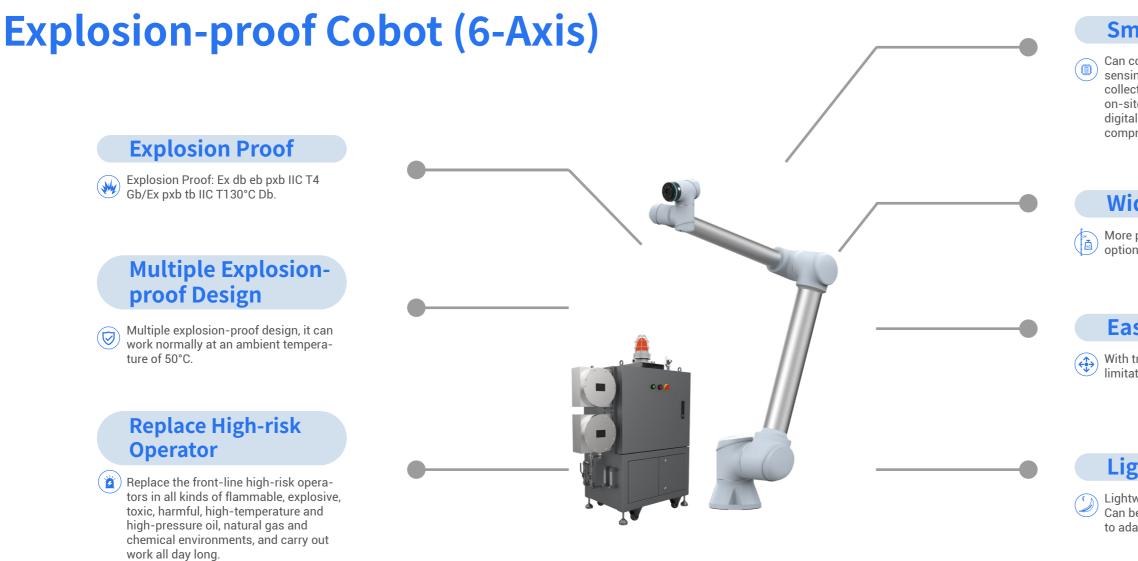
Emergency Signal Input	1 Channels (Passive signal, dry contact input		
Protective Stop Input	1 Channels (Passive signal, dry contact input)		
Configurable Secure Input	2 Channels (Passive signal, dry contact input)		

SDO

Configurable Secure Output	2 Channels (PNP Active Signal)
Emergency Stop Feedback Output	1 Channels (PNP Active Signal)
VOUT	23.52V-25.2VDC (Max 0.5A ScP)

Communication/COM

CAN	1 Channels, bps configurable10k, 20k, 50k, 100k, 125k, 250k, 500k, 1000k bps
RS485	1 Channels, bps configurable 4800, 9600, 19200, 38400, 115200 bps
LAN	2-way (1-way gigabit, 1-way 100Mbit) Support MODBUS TCP, PROFINFT, TCP IP
EtherCAT	1 Channels, EtherCAT COM
INC Encoder Signal A+, A-; B+, B-; Z+, Z-	Working voltage: 24VDC Frequency: <200KHz Input: square wave signal



Product Introduction

This series includes three explosion-proof collaborative robot products: X25-1800 ATEX, X20-1400 ATEX, X16-2000 ATEX, X10-1300 ATEX. As a protective wall for front-line high-risk personnel, it can replace front-line high-risk operators to work in various flammable, explosive, toxic, harmful, high-temperature and high-pressure oil, natural gas and chemical environments. The significant advantages of load handling and working radius makes it suitable for a wider range of application requirements. These models are also equipped characteristics such as safety, easy operation, quick deployment, and low power consumption.





Automobile Industry

€ Electric

Industry

3C

Industry







Consumer Goods Industry

Pan

Industry

Painting

Industry

Smart

Can configured various intelligent sensing devices to conduct real-time collection and intelligent analysis of on-site environmental data, improve the digital operation and maintenance ability comprehensively of enterprises.

Wide Application

More payload and working range options for larger scale of applications.

Easy Programming

With traction teach programming, less limitation to robot user.

Light and High Rigidity

Lightweight space- saving: Can be quickly deployed and redeployed to adapt to production line changes.



Education Industry

Explosion-proof Cobot (6-Axis)

Control Box

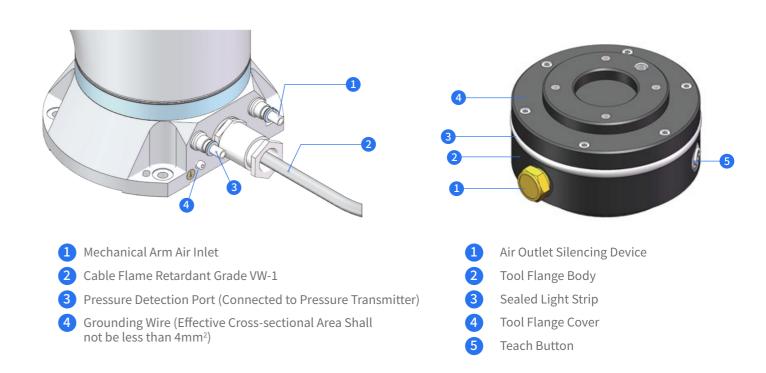
160kg	
1370*975*520mm	
200-240VAC, 47-63HZ, 8A/100-200VAC, 47-63HZ, 16A	
600W	
5m (For other specifications, please consult your dealer)	
TCP/IP, Modbus/TCP, CAN, RS485, Profinet	
8DI, 8DO(PNP, 24V/MAX500mA)	
16DI, 16DO(PNP, 24V/MAX500mA)/4AI(Voltage) , 4AI(Current)	
IP65	
-10°C-50°C	
-40°C-55°C	
20%-90%RH	
Ex db eb pxb IICT4Gb/Ex pxb tb IIIC T130°C Db	
Clean Air	
	1370*975*520mm 200-240VAC, 47-63HZ, 8A/100-200VAC, 47-63HZ, 16A 600W 5m (For other specifications, please consult your dealer) TCP/IP, Modbus/TCP, CAN, RS485, Profinet 8DI, 8DO(PNP, 24V/MAX500mA) 16DI, 16DO(PNP, 24V/MAX500mA)/4AI(Voltage), 4AI(Current) IP65 -10°C-50°C -40°C-55°C 20%-90%RH Ex db eb pxb IICT4Gb/Ex pxb tb IIIC T130°C Db



Teach Pendant

Size	248x172x22mm
OS	Android 10.0
Resolving Power	1280*800
VGA Size	10.1 16:10
IP Class	IP68
Weight	1095g
Power	AC100V~240V, 50Hz/60Hz,
DC Ports	DC 5V-3A ∮ 3.5mm

Diagram of the Base



Technical Parameters



IP Class Explosion Proof Level IP 65 Ex db eb pxb IICT4Gb/ Ex pxb tb IIIC T130°C Db

Type of Gas Source Clean Air



, Output DC 5V/3A

Diagram of the Tool

AUCTECH Mobile Cobot



Product Introduction

AUCTECH ARV(AGV+ROBOT) is integrated with independently developed mobile platforms and Cobot, with independently developed vision and fixture and other execution units to realize functional applications such as material handling, assembly, detection and precision processing. AUCTECH ARV(AGV+ROBOT) has comprehensive security protection, multiple interaction and communication modes and can well interface with customer systems. It can also provide customized solutions, customized scheduling system, on-site guidance and perfect after-sales service to ensure customer experience. As a standardised product, AUCTECH ARV(AGV+ROBOT) offers consistency, reliability and stability not found in non-standard equipment.

Industry



Petrochemical A Industry

Automobile

Industry



3C Industry



Industry

Medical

Industry



Pan

Industry

Consumer Goods

Industry



Painting

Industry

AUCTECH 13



(**b**)

Realize visual linkage debugging of mobile platform and collaboration arm on one screen, fast deployment.

Charging Variety

Contact/wireless/automatic charging mode, meeting the requirements of short-time, real-time and 7 * 24 all-day operation.

Integrated & Open Controller



EOpen programming environment+ multiple communication and data interfaces+independent detection can meet more customization requirements.



AUCTECH Mobile Cobot

Dimensions (L*W*H, excluding cooperation arm and side obstacle avoidance laser)

Comprehensive Accuracy

Total Weight

Navigation Mode

Cobot Payload

Platform Load

Mobile Capability

Parking

Accuracy

Battery Performance

Charging Mode

Interface

Button

Use Environment

Safety Device









			AM-X3-D			
g cooperation arm avoidance laser)	1250mm×60	1250mm×600mm×700mm 950mm×600mm×700		00mm×700mm	800mm×600n	
ve Accuracy		±0.3	3mm			
)/361/350/360KG rative arm X5/10/14/16/20)		'0/280/300/KG porative arm X5/10/14/16)	About 247 (Equipped with collab	
e		SLAM & C	QR CODE			
		;/14kg/20kg rative arm X5/10/14/16/20)	5kg/10kg/14kg/16kg (Equipped with collaborative arm X5/10/14/16)		5kg/1 (Equipped with collab	
	670	kg Max	350	Okg Max	120kg	
Driving Form	Two-whee	l Differential	Two-whe	Two-wheel Differential		
Turning Radius	500n	nm Min	500	mm Min	500mn	
Crab Speed (Any Angle)		/		/	/	
Width of Walking Passage	900n	nm Min	900	mm Min	900mn	
Movement Speed	\$	≤1m/s		≤1m/s		
	≪0	≪0.5m/s		≪0.5m/s		
Obstacle Clearance Height	10	10mm		10mm		
Trench Width	30			25mm		
Ground Clearance	30	30mm		30mm		
Gradeability	<	<5°		<5°	<5	
		5mm position accura	cy, ±1° angle accura	су		
Battery	DC51.2V Lithium iron phosphate LFP	DC51.2V Lithium iron phosphate LFP (Option)	DC51.2V Lithium iron phosphate LFP	DC51.2V Lithium iron phosphate LFP (Option)	DC51.2V Lithium DC51.2V Lithiu	
Capacity	52Ah	80Ah	42Ah	80Ah	28Ah	
Running Time	About 5.5 hours	About 8 hours	About 5.5 hours	About 8 hours	About 5.5 hours	
Charging Time	≤1.8h	≤2h	≤1.5h	≤2h	≤1.5h	
	Contact Charging / Wi	Contact Charging / Wireless Charging / Converter (Both Manual and Automatic Support)				
	Collision Detection,	Collision Detection/Safety Contact/Obstacle Avoidance Laser/Emergency Stop,etc.				
Hardware Support	Hardv	vare Support CAN bus,	, RS-485, RS-232, RJ4	5, USB		
Communication Protocol	Communication Protocol Support CANOPEN, Modbus, etc.					
	Start					
Ambient Temperature		Ambient Temperature: -10°C~45°C				
Ambient Humidity	Ambient Humidity: 5%~95 % (No Condensation)					
Runtime Environment	Indoor Use Only					
Cleanliness	None/ Class6(Class 1000) / Class5 (Class 100)					

0mm×700mm 1250mm×700mm×800mm \pm 0.3mm About 392/405/436/435KG (Equipped with collaborative arm X5/10/14/20) 247/260KG llaborative arm X5/10) (Equip SLAM & QR CO g/10kg Ilaborative arm X5/10) 5kg/10kg/14kg/20kg (Equipped with collaborative arm X5/10/14/20) (Equip kg Max 470kg Max Differential Mecanum Wheel nm Min / ≪0.5m/s nm Min 1000mm Min .8m/s ≤0.8m/s).5m/s ≤0.5m/s)mm 10mm mm 80mm 45mm)mm <5° <5° \pm 5mm position accuracy, \pm 1° DC51.2V Lithium iron DC51.2V Lithium DC51.2V Lithium iron phosphate LFP (Option) iron phosphate LFP phosphate LFP (Option) 42Ah/80Ah 42Ah 80Ah Abo About 8 hours About 5.5 hours About 8 hours ≤2h ≤1.5h ≤2h Contact Charging / Wireless Charging / Converter (Both Manual and Collision Detection/Safety Contact/Obstacle Av Hardware Support CAN bus, RS-Communication Protocol Support Start Button/Pause Button/Reset Ambient Temperature: Ambient Humidity: 5%~95 % Indoor Use Or None/ Class 6 (Class 1000) / C

(1) The comprehensive accuracy depends on the accuracy of the end positioning device, the parking accuracy of the mobile platform, and the accuracy of the collaborative arm end. (2) The operating time depends on requirements such as operating conditions and rhythm.

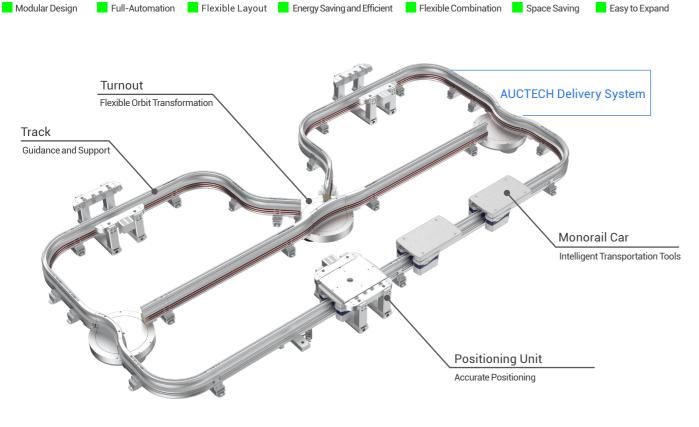


1250mm×600mm×1070mm

1250mm×600mm×700mm

1					
About 330/361/350/360KG pped with collaborative arm X10/14/16/20)	About 320/330/361/350/360KG (Equipped with collaborative arm X5/10/14/16/20)				
ODE					
10kg/14kg/16kg/20kg pped with collaborative arm X10/14/16/20)	5kg/10kg/14kg/16kg/20kg (Equipped with collaborative arm X5/10/14/16/20)				
100kg Max	670kg Max				
Two-wheel Differential	Two-wheel Differential				
500mm Min	500mm Min				
/	/				
900mm Min	900mm Min				
≤1m/s	≪1m/s				
≪0.5m/s	≪0.5m/s				
10mm	10mm				
30mm	30mm				
30mm	30mm				
<5°	<5°				
° angle accuracy					
DC51.2VLithium DC51.2VLithium iron ron phosphate LFP phosphate LFP (Option)	DC51.2V Lithium iron phosphate LFP				
52Ah 80Ah	52Ah				
oout 5.5 hours About 8 hours	About 5.5 hours				
≤1.8h ≤2h	≤1.8h				
d Automatic Support)	Contact Charging (A/M)				
voidance Laser/Emergency Stop, et	с.				
-485, RS-232, RJ45, USB					
CANOPEN, Modbus, etc.					
et Button/Teach Button					
e: -10°C~45°C					
(No Condensation)					
Dnly					
Class 5 (Class 100)					

AUCTECH Delivery System



AUCTECH Delivery System can organically connect production equipment and process flow. The system plans the path of the trolley based on the starting point and destination of material transportation, achieving fully automatic material transportation and meeting the requirements of flexible production systems for material transportation. It has the characteristics of energy-saving, clean, efficient, and flexible. The installation method of the multi transmission system is very flexible, which can be lifted or installed on the ground, and has unique advantages in situations where the production area is very tight.

Main Modules

Track and Accessories

 Guidance 	 Full Track
and Support	Power Supply

 Flexible Combination specifications



AUCTECH Delivery System track system provides path quidance for the trolley during operation. The power supply system is laid along the track to provide power for the entire track. The track system of AUCTECH Delivery System has various specifications of length and bending radius, which can be flexibly combined and configured according to needs.

Multiple

Sensor Installation

Track Connection and Power Supply Module

 Track 	 Power 	 Force 	• Trac
Connection	Connection	Fulcrum	Adju

ack Installation liustment

The track connection and power supply module of AUCTECH Delivery System is an indispensable organic component of the track system, which can connect different tracks, guide the power supply to connect to the tracks and support the system's force.

Monora	il Car		
• Motor Drive	• Wireless Communication	• Anti- collision	Anti-blocking Rotation
The second			

The monorail car is the core component of AUCTECH Delivery System and is an intelligent material transportation vehicle operating in orbit. The car receives power from the track and is driven by the onboard power system. It has the characteristics of anti-collision, anti-blocking rotation, and display of operating status.

Positioning Unit

Motor	 Path	 Anti-blocking	 Locking	 Programmable
Drive	Switch	Rotation	in Place	Controller

Turnouts are key modules that control the operation of small cars along different paths through AUCTECH Delivery System. By setting the turnout reasonably, the main and branch roads of the track system can be formed, as well as the function of dividing the track main road into different branches and merging them into the main road.

Track and Accessories

Drive Positioning Adjustable Load Support	 Cylinder Drive 	 Accurate Positioning 	 Horizontally Adjustable 	 Operating Load Support 	
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The positioning unit is a unit that interacts between AUCTECH Delivery System and production process equipment and stations, and is also a station for precise positioning of on-board materials.

Communication Module

Optoelectronic Communication Status Displa		 Programmable Controller 	 Trolley S Control
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The communication module is the core module for communication between the car and the upper control system. The control system can wirelessly communicate with the car through the communication module, query the car's information, and control its operation.

Technical Parameters

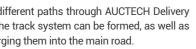
Track Straight Section and Accessories		Track Ber and Acce	ck Bends Accessories				Track connection and power supply module and accessories	
Spec.	Value	Spec.	Value				Spec.	Value
Weight (kg)	5.6	Size	90°R220	45°R220	90°R520	45°R520	Weight (kg)	0.5
Material	Aluminum Alloy	Weight (kg)	3.7	2.2	7.8	4.3	Material	Aluminum Alloy
Surface	Anodization	Material	Aluminu	m Alloy			Accessories1	Cu
Accessories1	Ni-Cu	Surface	Anodizat	tion			Accessories2	Plastics
Accessories2	Plastics	Accessories1	Ni-Cu				Accessories3	Steel
		Accessories2	Plastics					

Monorail Car		Turnout	
Spec.	Value	Spec.	Value
Size (mm)	350 X 203 X 150	Material	Aluminum Alloy
Weight (kg)	≤4.5	Rotation Angle (Main Road/Guide)	60, 150, 210
Max Operating Speed (m/min)	36 or 60 (Optional)	Rotation Angle (Diversion/Convergence)	120, 240
Deceleration Running Speed (m/min)	20 (Adjustable)	Joint	1xRS232, 3xDI, 4xDO
Max Weight (kg)	11 (Excluding Dead Weight)	Load (kg)	34 (Inclduing Dead-Weight)
Parking Accuracy (mm)	±1	Supply Voltage (VDC)	24
TRNF	Rolling Contact	Weight (kg)	14
Running Direction	Forward and Reverse	Rotation Time	150°=1.4s, 60°=0.65s, 210°=1.9s
Supply Voltage (VDC)	24	Rotation Time	120°=1.3s, 240°=2.3s

 Running Status Display



 Combined Application





Start

• I/O & RS232



Track connection and power			
supply module and accessories			

Track and Accessories

ACCESSORES	
Spec.	Value
Size (mm)	325 X 410 X 170
Weight (kg)	7.8
Positioning Accuracy (mm)	±0.1
Operating Pressure (bar)	4-6
KPa (bar)	5
Gas Circuit Connection	ø4mm

Communication Module			
Spec.	Value		
Size (mm)	130x56x30		
Weight (kg)	0.5		
Supply Voltage (VDC)	24		
DI	3		
DO	3		
RS232	1		





7-Axis Cobot

Technical Parameters

X3-600 7A

Product Features



More Flexible

With 7 degrees of freedom, the robot can work well in compact space.

Safe

Collision detection function enables human robot collaboration.

Easy Programming

with traction teach programming, less limitation to robot user.

More Accurate

Repeatability up to ±0.02mm.

Economic Efficient Power consumption 250W.

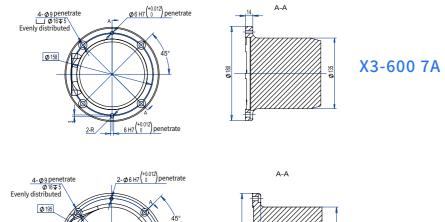
7-Axis Cobot has various functions such as rapid deployment, traction teaching and collision detection. It is particularly suitable for flexible production lines with compact layout and high precision to conduct precision assembly, product packaging, polishing, testing, machine loading and unloading and other industrial operations. 7-Axis Cobot, with its high flexibility, precision, and safety, will open up a brand new way of industrial production and lead the new era of human-machine collaboration.

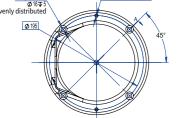
X3 000 TA		X3 000 IA	X3 000 TA
Max P	ayload	3kg	5kg (5.5kg*1)
Degre	e of Freedom	7	7
Max T	CP Speed	2.5m/s	2.0m/s
Max St	raight-line Speed	1.0m/s	1.0m/s
Reach	l	600mm	800mm
Repea	atability	±0.02mm	±0.02mm
Joint		Range Max Speed	Range Max Speed
J7		Infinite Spins 180°/s	±180° 180°/s
J6		±120° 180°/s	±110° 180°/s
J5		±180° 180°/s	±180° 180°/s
J4		±120° 180°/s	±115° 180°/s
J3		±180° 180°/s	±180° 180°/s
J2		±115° 180°/s	±105° 180°/s
J1		±180° 180°/s	±180° 180°/s
Tool II	nterface	GB/T 14468.1-50-4-M6(eqv ISO 9409-1)	GB/T 14468.1-50-4-M6(eqv ISO 9409-1)
I/O	Control Box I/O	14 Dig I/O, 24V, 0.5A	14 Dig I/O, 24V, 0.5A
1/0	End Joint I/O	2 Dig I/O, 24V, 1A	2 Dig I/O, 24V, 1A
Power	r Supply	230VAC (-15%~+10%), 50-60Hz	230VAC (-15%~+10%), 50-60Hz
Power	r Consumption	Typical Power Consumption 250W	Typical Power Consumption 400W
Robot	Dimensions	1035x232x202mm	1285x220x240mm
Contr	ol Box Size	530x480x180mm	530x480x180mm
Install	lation	Installed in Any Direction	Installed in Any Direction
Ambie	nt Temperature Range	-10°C~45°C	-10°C~45°C
Storage	e Temperature Range	-40°C~55°C	-40°C~55°C
IP Cla	SS	IP54	IP54
Robot	Package Size	735x635x350mm	735x635x350mm
Contro	l System Package Size	698x588x450mm	698x588x450mm
Net/G	ross Weight	24kg/34kg	24kg/33kg

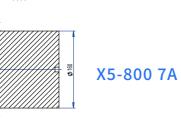
X5-800 7A

7-Axis Cobot

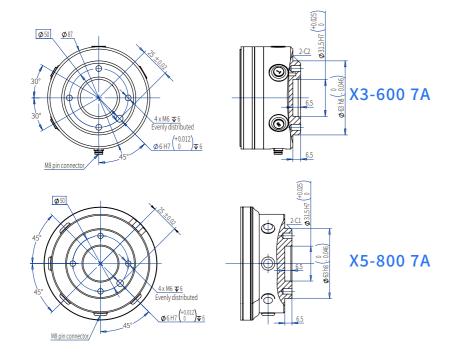
Base Flange **>>>**



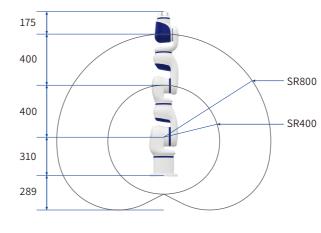




Tool Flange 🕨

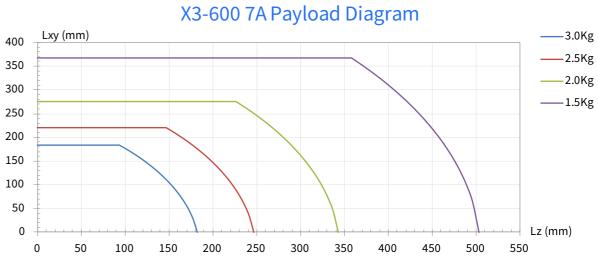


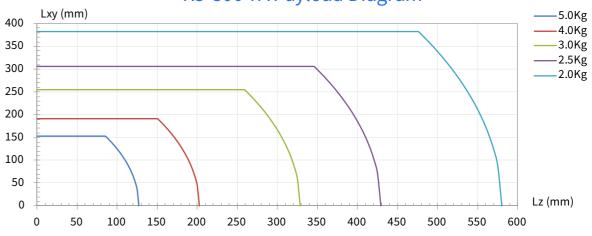


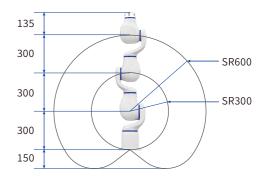


X3-600 7A

Payload Diagram >>>







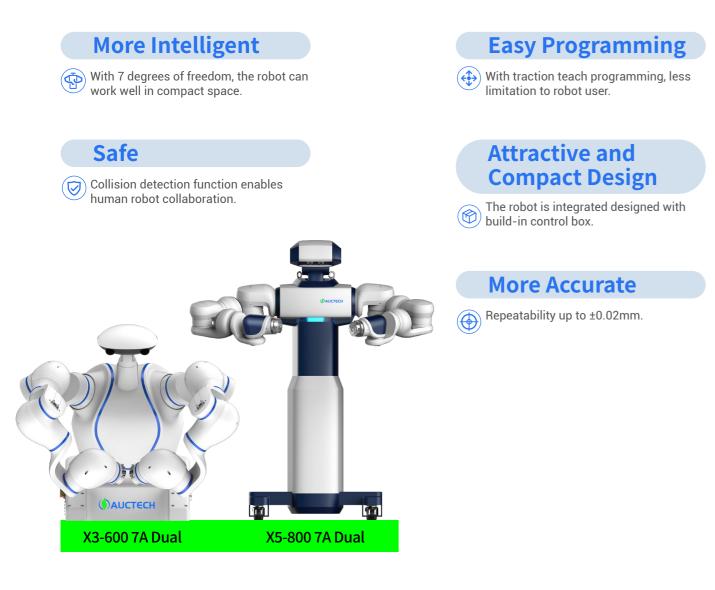
X5-800 7A



Dual-arm Series Cobot

Technical Parameters





Dual-arm series cobot is featured with high flexibility, extreme safety, rapid deployment. It provides an overall solution for assembling by fast, safe, agile, accurate, and highly efficient positioning and operation, which also provides a better develop environment with more freedom and possibility for users.

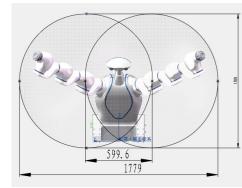
X3-600 7A Dual

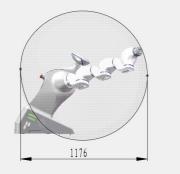
Max Payload	6kg (3kg x 2)		10kg (5kg x 2	10kg (5kg x 2)	
Degree of Freedom	Each arm 7x2, Head 2, Head is optional		Each arm 7x2, Head 2, Head is optional		
Max TCP Speed	2.5m/s		2.0m/s		
Max Straight-line Speed	1.0m/s		1.0m/s		
Reach	600mm x 2		800mm x 2		
Repeatability	±0.02mm		±0.02mm		
Joint	Range	Max Speed	Range	Max Speed	
J7	±180°	180°/s	±180°	180°/s	
J6	±120°	180°/s	±110°	180°/s	
J5	±180°	180°/s	±180°	180°/s	
J4	±120°	180°/s	±115°	180°/s	
J3	±180°	180°/s	±180°	180°/s	
J2	±115°	180°/s	±105°	180°/s	
J1	±180°	180°/s	±180°	180°/s	
Tool Interface	GB/T 14468	.1-50-4-M6 (eqv ISO 9409-1)	GB/T 14468.1-50-4-M6 (eqv ISO 9409-1)		
Tool I/O of Each Arm	2 Dig I/O, 24V, 1A		2 Dig I/O, 24V, 1A		
Power Supply	230VAC(-15%~+10%), 50-60Hz		230VAC (-15%~+10%), 50-60Hz		
Power Consumption	Typical Power Consumption 500W		Typical Power Consumption 800W		
Robot Dimensions	1035x232x202mm		1285x220x240mm		
Control System	Built-in Control System		Built-in Control System		
Installation	Installed in Any Direction		Installed in Any Direction		
Ambient Temperature Range	-10°C~45°C		-10°C~45°C		
Storage Temperature Range	-40°C~55°C		-40°C~55°C		
IP Class	IP30		IP30	IP30	
Robot Package Size	1200x1000x1040mm		1100x1100x	1100x1100x1900mm	
	70kg/100kg		200kg/250kg		

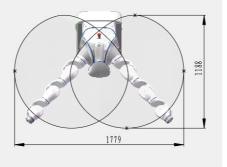
X5-800 7A Dual

Dual-arm Cobot

Work Space 🕨







Front View

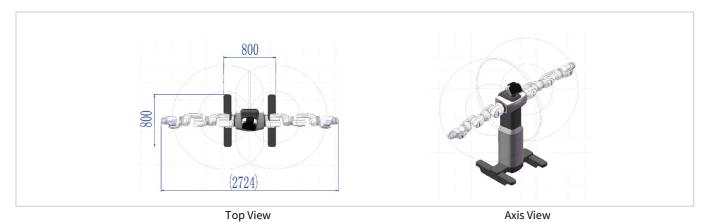
Side View

Top View



Front View

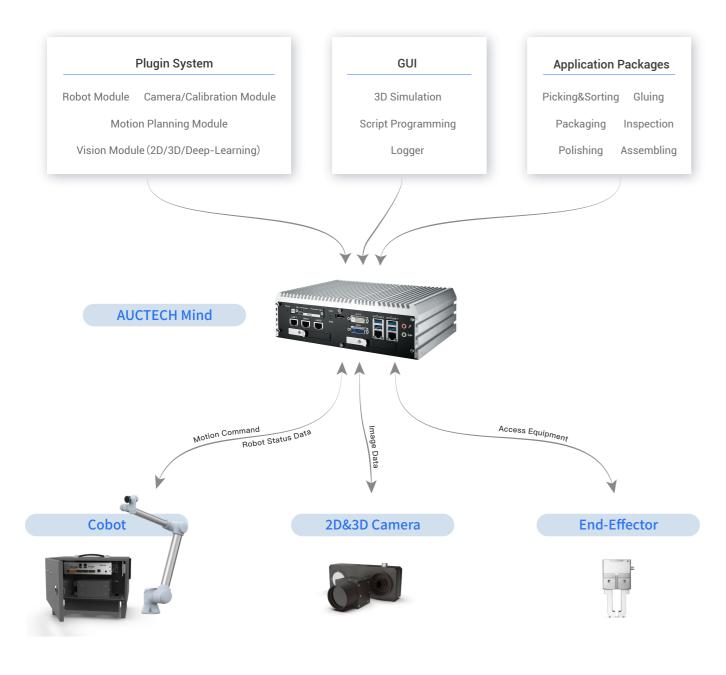
Side View



AUCTECH 26

AUCTECH Intelligent Application Controller

AUCTECH Mind is composed of intelligent software, intelligent controller and peripherals such as camera and other sensors. AUCTECH Mind is positioned to empower AUCTECH robot applications with multi-sensorfusion and AI technology.



Product Introduction

AUCTECH Mind is an intelligent application controller that integrates 2D, 3D, and deep learning functions. The software algorithm is fully developed by AUCTECH. It can be used in different application scenarios such as handling (palletizing), loading, picking, classification, positioning, gluing, assembly. and inspection. It has the advantages of high cost-effectiveness, strong openness, and easy deployment and implementation.





Deep Learning

3D Location

Product Features





acceleration

CPU (i3/i5/i7)

Serial port and other expansion interfaces

Technical Parameters



	AUCTECH Mind-Mini	AUCTECH Mind-Lite	AUCTECH Mind-Power	AUCTECH Mind-Ai
CPU	Intel [®] Core™ i3-6100	Intel [®] Core™ i5-7500	Intel [®] Core™ i7-7700	Intel [®] Core™ i7-8700
GPU	-	_	GTX 1650	Nvidia 2080T
RAM	8G	16G	16G	16G
Disk	128G	256G	256G	256G
PC Card	GIGE*4	GIGE*2	GIGE*2	GIGE*2
POE	-	GIGE*4	GIGE*4	_
I/O	-	DI*16/DO*16	DI*16/DO*16	DI*16/DO*16
Size	230.3*152.0*79.1mm	260.0*175.0*79.0mm	260.0*215.0*79.0mm	330.0*210.0*172.0mm
Weight	2.9 kg	4.3 kg	4.8 kg	5.6 kg





2D Recognition



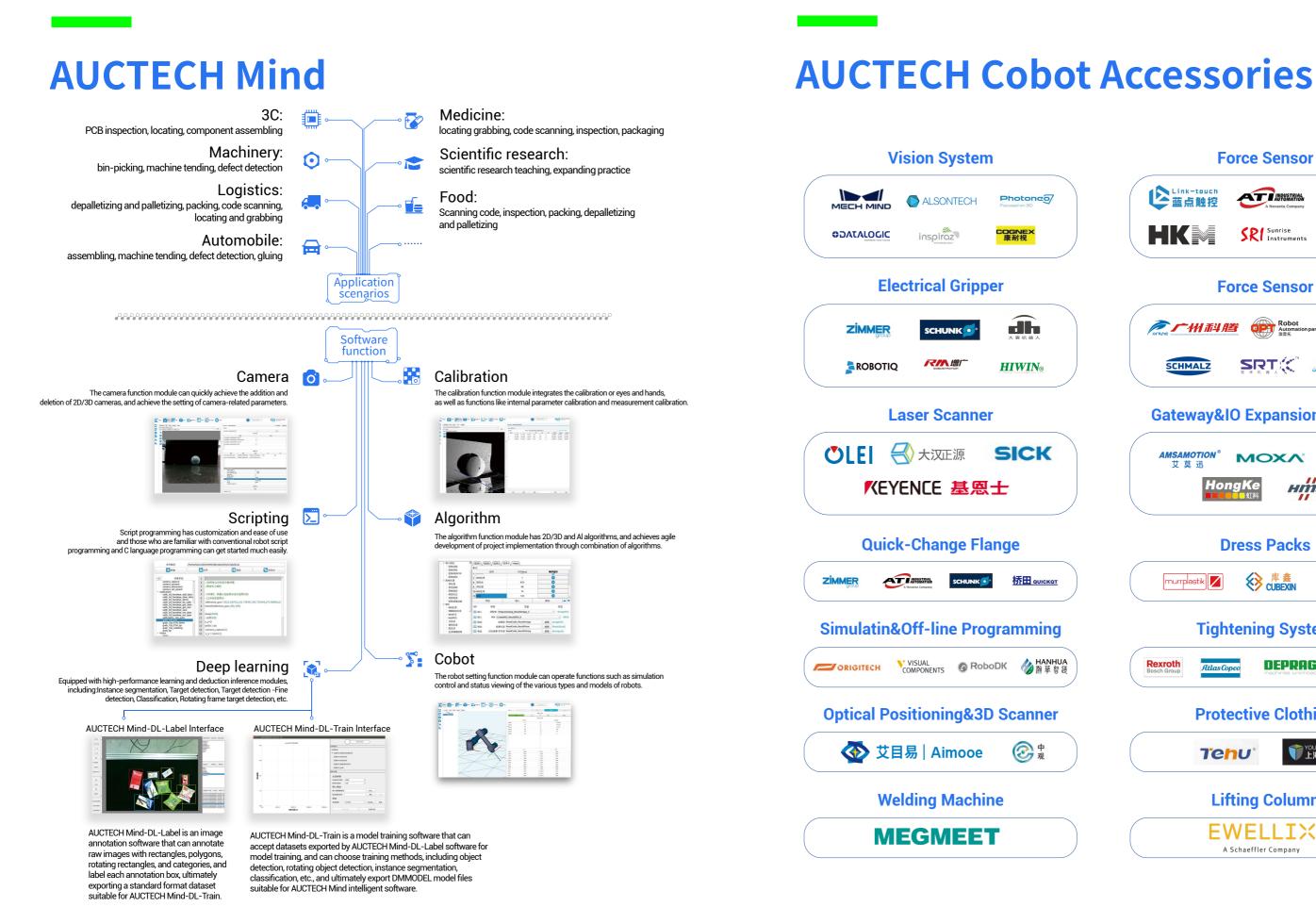


DI-DO



Multiple camera interfaces (POE,USB3.0)







We Are Dedicated to The Advancement of Cobot



AUCTECH COBOT FOR MORE

Collaborative and safe, easy to work, flexible and intelligent.

Working with you to create a better working scene and more value for you.

