

AUCTECH 2024-V5.0

Collaborative Robots

X Series

AUCTECH Makes Human Life and Manufacturing More Convenient

AUCTECH Robotics

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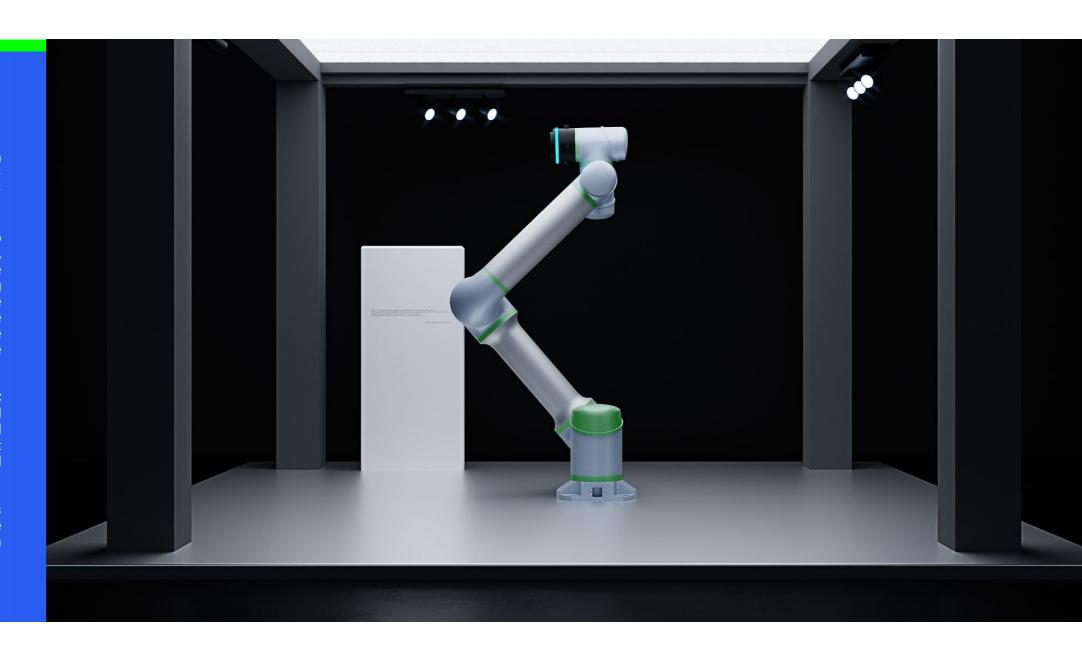
About AUCTECH

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

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

AUCTECH Mobile Cobot

- AUCTECH Mobile Cobot
- 17 AUCTECH Delivery System

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.

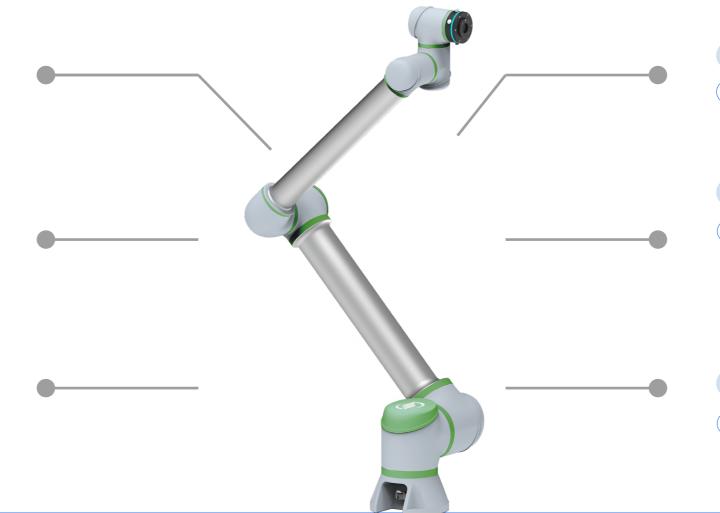
Smart

- 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

Wide Application

Premium: 30% Faster Trajectory

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



Easy Programming

Easy programming with traction teach programming, less limitation to robot

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.

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.

Industry



Petrochemical Industry



Automobile Industry



3C

Industry

Electric Industry



Medical Industry



Pan Industry



Consumer Goods Industry



Painting Industry



Education Industry

AUCTECH 01 **AUCTECH 02**

















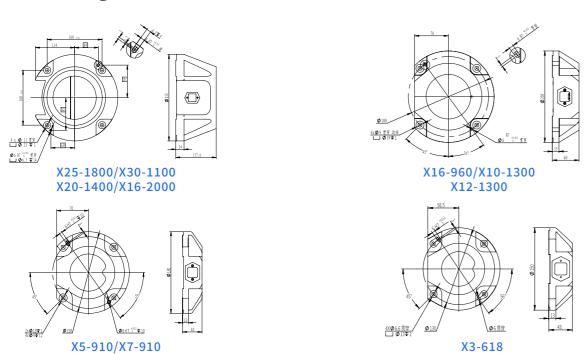




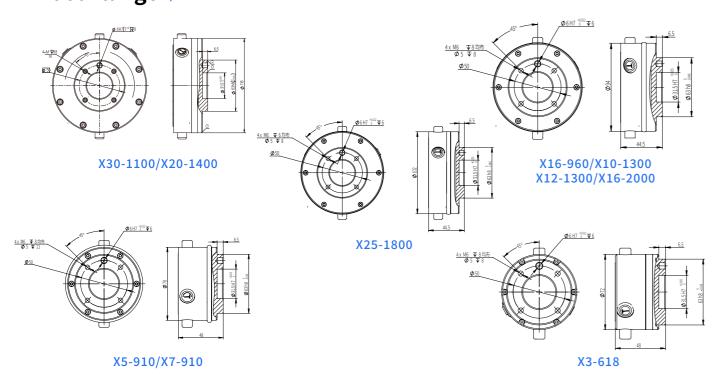
		X30-1100	X25-1800	X20-1400	X16-2000		
Max Payload		30kg	25kg	20kg	16kg		
Degree of Freed	om	6	6	6	6		
Max TCP Speed		2.0m/s	2.5m/s	2.2m/s	4.0m/s		
Max Straight-lin	e Speed	1.0m/s	1.5m/s	1.0m/s	1.8m/s		
Reach		1100mm	1800mm	1400mm	2000mm		
Repeatability		±0.05mm	±0.05mm	±0.05mm	±0.03mm		
	ge of tion		Max S	Speed			
J6 ±3	60°	225°/s	225°/s	225°/s	225°/s		
J5 ±3	60°	225°/s	225°/s	225°/s	225°/s		
J4 ±3	60°	225°/s	225°/s	225°/s	225°/s		
J3 ±3	60°	180°/s	150°/s	180°/s	180°/s		
J2 ±3	60°	120°/s	100°/s	120°/s	120°/s		
J1 ±3	60°	120°/s	120°/s 120°/s		120°/s		
Tool Interface		GB/T 14468.1-50-4-M6(eqv ISO 9409-1)					
End Joint 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		
Power Supply			220-240VAC 47-63Hz 10A/100-200VAC 47-63Hz 16A				
Power Consump	otion	Typical Power Consumption 600W	Typical Power Consumption 600W	Typical Power Consumption 600W	Typical Power Consumption 400W		
Installation		Land Type	Installed in Any Direction		1		
IP Class		IP54/IP65	IP54/IP65	IP54/IP65	IP54/IP65		
Ambient Temperature Ra	mbient -10°C~50°C -10°C~50°C		-10°C~50°C	-10°C~50°C			
Storage Temperature Ra	ange	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C		
Robot Dimensions 1395x42		1395x420x290mm	2300x440x252mm	1695x388x205mm	2300x388x205mm		
Robot Package	Size	1060x540x840mm	1300x520x660mm	1060x500x740mm	1500x550x690kg		
Net/Gross Weight		64kg/82kg	61.6kg/80kg	66kg/86kg	60kg/84kg		

	X16-960	X12-1300	X10-1300	X7-910	X5-910	X3-618
Ī	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					
			100-240VAC	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 Consumption 200W
			Installed i	n 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
	1060x500x600mm	1060x500x620mm	1060x500x620mm	700x370x440mm	700x370x440mm	540x340x440mm
_	37kg/53kg	37.8kg/52kg	37.8kg/52kg	22kg/26kg	22kg/26kg	13kg/17kg

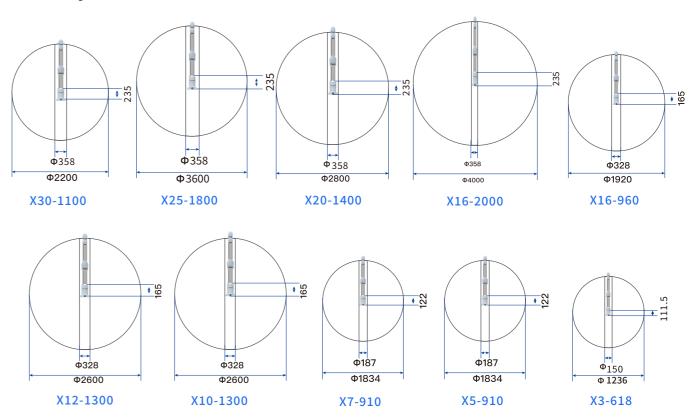
Base Flange >>>



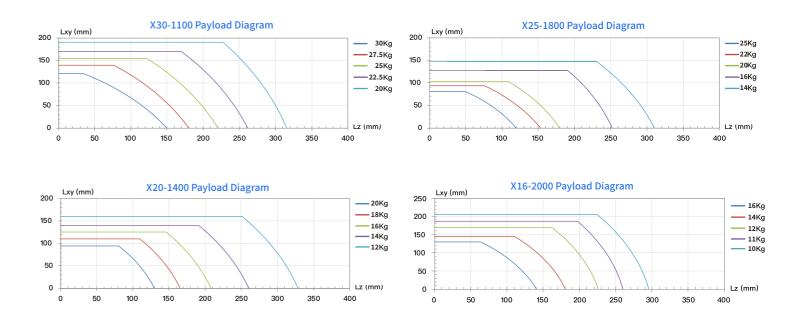
Tool Flange >>>



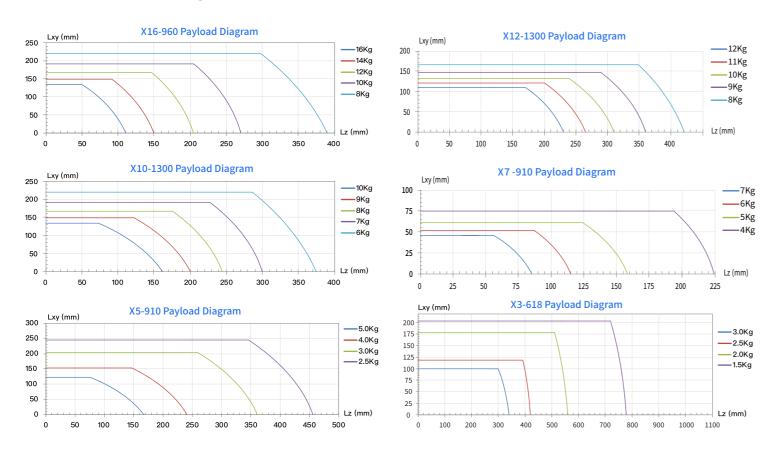
Work Space >>>



Payload Diagram >>>



Payload Diagram >>>



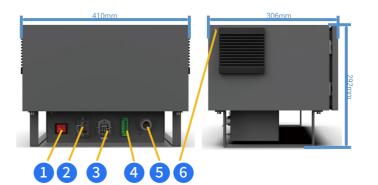
Control Box



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.



- 1 System Switch
- 2 AC Input
- 3 Robot Arm Interface
- 4 Teach Pendant Shielding Interface
- 5 Teach Pendant Interface
- 6 ANT Interface (Optional WIFI)

- CIO LAN1+USB 3.0 6 LAN2+USB 2.0
 - DIO SIO
 - - IO POWER
- 2AI 2AO 485 INC CAN

EtherCAT2

VGA&COM3/4



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				
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)

Configurable Secure Input 2 Channels (Passive signal, dry contact input)

1 Channels (Passive signal, dry contact input)

SDO

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

Communication/COM

Protective Stop Input

CAN	1 Channels, bps configurable 10k, 20k, 50k, 100k, 125k, 250k, 500k, 1000k bps
RS485	1 Channels, bps configurable 4800, 9600, 19200, 38400, 115200 bps
AN	2-way (1-way gigabit, 1-way 100Mbit) Support MODBUS TCP, PROFINET, TCP IP
therCAT	1 Channels, EtherCAT COM
NC Encoder Signal A+, A-; B+, B-; Z+, Z-	Working voltage: 24VDC Frequency: <200KHz Input: square wave signal

AUCTECH 07 AUCTECH 08

Explosion-proof Cobot (6-Axis)

Explosion Proof

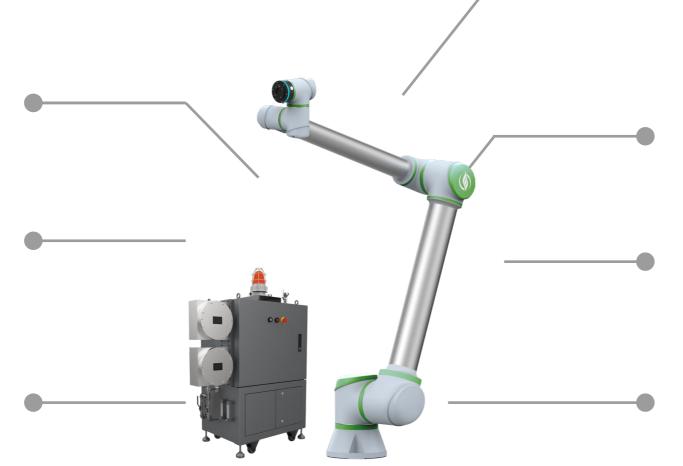
Explosion Proof: Ex db eb pxb IIC T4 Gb/Ex pxb tb IIC T130°C Db.

Multiple Explosionproof Design

Multiple explosion-proof design, it can work normally at an ambient temperature of 50°C.

Replace High-risk Operator

Replace the front-line high-risk operators in all kinds of flammable, explosive, toxic, harmful, high-temperature and high-pressure oil, natural gas and chemical environments, and carry out work all day long.



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.

Product Introduction

This series includes four 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.

Industry



Petrochemical Industry



Automobile Industry



3C Industry



Electric

Industry

Medical Industry



Pan Industry



Consumer Goods Industry



Painting Industry



Education Industry

Explosion-proof Cobot (6-Axis)

Control Box >>>

Weight	
Size	
Power Supply	
Rated Power	
Cable Length	
Communication Mode	
Communication I/O	
Expand I/O	
IP Class	
Operation Temperature	
Storage Temperature	
Humidity	
Explosion Proof	
Type of Gas Source	

IOUKg
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



Control Box

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, Output DC 5V/3A		
DC Ports	DC 5V-3A ∮ 3.5mm		



Technical Parameters



Please refer to the standard 6-axis cobot form for specific model and technical parameters details

IP Class

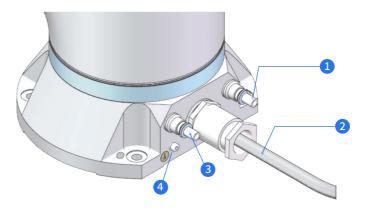
Explosion Proof Level

Type of Gas Source

IP 65

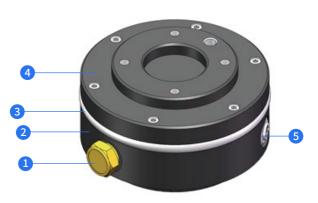
Ex db eb pxb IICT4Gb/ Ex pxb tb IIIC T130°C Db Clean Air

Diagram of the Base >>>



- Mechanical Arm Air Inlet
- Cable Flame Retardant Grade VW-1
- Pressure Detection Port (Connected to Pressure Transmitter)
- Grounding Wire (Effective Cross-sectional Area Shall not be less than 4mm²)

Diagram of the Tool >>>



- Air Outlet Silencing Device
- Tool Flange Body
- Sealed Light Strip
- Tool Flange Cover
- Teach Button

AUCTECH 11 **AUCTECH 12**

AUCTECH Mobile Cobot

Customized Wheel Train

The customized wheel train for AUCTECH mobile cobot comes more stable and reliable.

360° Security Protection

Real-time 360° security protection achieves man-machine security cooperation.

Complete Ecological Technical Support

Efficient docking of various tools and more convenient for grasping.

B-Series



T-Series



L-Series



Integrated Teach Screen

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

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

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 standardized product, AUCTECH ARV(AGV+ROBOT) offers consistency, reliability and stability not found in non-standard equipment.

Industry



Petrochemical Industry



Automobile

Industry

3C Industry



Electric Industry



Medical Industry



Pan Industry



Consumer Goods Industry



Painting Industry



Education Industry

AUCTECH 13

AUCTECH Mobile Cobot







		AM-	X2-B	AM	-X3-B	
Dimensions (L*W*H, excluding cooperation arm and side obstacle avoidance laser)		1250mm×600mm×700mm		950mm×6	950mm×600mm×700mm	
Comprehensive Accuracy			±0.3mm			
Total Weight			0/361/350/360KG rative arm X5/10/16/20/30)		70/280/300/KG borative arm X5/10/16/20)	
Navigation Mod	e	SLAM & QR CODE				
Cobot Payload		5kg/10kg/10 (Equipped with collabo	6kg/20kg/30kg rative arm X5/10/16/20/30)		kg/16kg/20kg aborative arm X5/10/16/20)	
Platform Load		6701	670kg Max		350kg Max	
Driving Form		Two-whee	l Differential	Two-whe	eel Differential	
	Turning Radius	500n	nm Min	500	mm Min	
	Crab Speed (Any Angle)		/		/	
	Width of Walking Passage	900n	nm Min	900	mm Min	
Mobile	Movement Speed	<u> </u>	1m/s	<	≤1m/s	
Capability	Turning Speed	≪0	.5m/s		0.5m/s	
	Obstacle Clearance Height	10	10mm		L0mm	
	Trench Width	30	30mm		25mm	
	Ground Clearance	30	30mm		30mm	
	Gradeability	<5°		<5°		
Parking Accuracy		± 5 mm position accurac		y, ±1° angle accuracy		
	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)	
Battery	Capacity	52Ah	80Ah	42Ah	80Ah	
Performance	Running Time	About 5.5 hours	About 8 hours	About 5.5 hours	About 8 hours	
	Charging Time	≤1.8h	≤2h	≤1.5h	≤2h	
Charging Mode		Contact Charging / Wireless Charging / Converter (Both Manual and Automatic Support)				
Safety Device		Collision Detection/	Safety Contact/Obsta	cle Avoidance Laser/E	Emergency Stop, etc.	
Intenfore	Hardware Support	Hardware Support CAN bus, RS-485, RS-232, RJ45, USB				
Interface	Communication Protocol	Communication Protocol Support CANOPEN, Modbus, etc.				
Button		Start Button/Pause Button/Reset Button/Teach Button			Button	
	Ambient Temperature		Ambient Temperature: -10°C~45°C			
Use	Ambient Humidity	An	Ambient Humidity: 5%~95 % (No Condensation)			
Environment	Runtime Environment		Indoor Use Or			
_	Cleanliness		None/ Class6(Class 1000) / Class5 (Class 100)			











<600mm×700mm	1250mm×700mm×800mm	1250mm×600mm×1070mm	

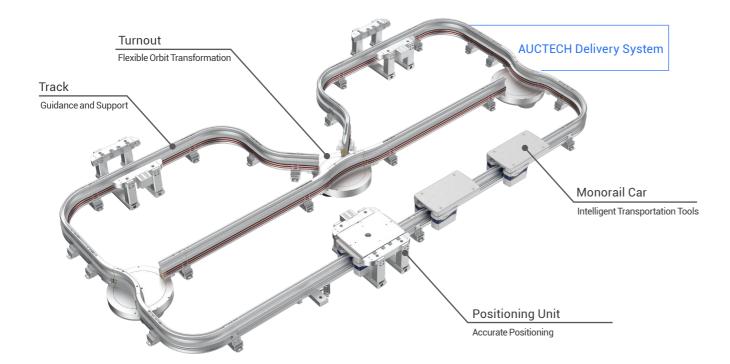
800mm×600mm×700mm		1250mm×700mm×800mm		1250mm×600mm×1070mm		1250mm×600mm×700mm
			土	0. 3mm		
About 247/260KG (Equipped with collaborative arm X5/10)		About 392/405/436/435KG (Equipped with collaborative arm X5/10/20/30)		About 330/36 (Equipped with collabor		About 320/330/361/350/360KG (Equipped with collaborative arm X5/10/16/20/30)
			SLAM	& QR CODE		
	kg/10kg collaborative arm X5/10)	5kg/10kg/20kg/30kg (Equipped with collaborative arm X5/10/20/30)		10kg/16kg/ (Equipped with collabor		5kg/10kg/16kg/20kg/30kg (Equipped with collaborative arm X5/10/16/20/30)
120	Okg Max	470k	g Мах	100kg	g Max	670kg Max
Two-whe	el Differential	Mecanu	m Wheel	Two-wheel	Differential	Two-wheel Differential
500	mm Min	ı	1	500mi	m Min	500mm Min
	/	≤0.	5m/s	/	1	/
900	mm Min	1000m	ım Min	900mi	m Min	900mm Min
	0.8m/s	≪0.0≥	3m/s	≤11	m/s	≤1m/s
<	0.5m/s	≤0.	5m/s	≤0.5	sm/s	≤0.5m/s
1	L0mm	10mm		10mm		10mm
3	30mm	80mm		30mm		30mm
30mm		45mm		30n	nm	30mm
<5°		<5°		<	5°	<5°
		±5	mm position accura	acy, ±1° angle accura	су	
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 iron phosphate LFP	DC51.2V Lithium iron phosphate LFP (Option)	DC51.2VLithium iron phosphate LFP
28Ah	42Ah/80Ah	42Ah	80Ah	52Ah	80Ah	52Ah
About 5.5 hours	About 8 hours	About 5.5 hours	About 8 hours	About 5.5 hours	About 8 hours	About 5.5 hours
≤1.5h	≤2h	≤1.5h	≤2h	≤1.8h	≤2h	≤1.8h
	Contact Charging /	Wireless Charging /	Converter (Both Mai	nual and Automatic S	upport)	Contact Charging (A/M)
		Collision Detection	/Safety Contact/Obs	stacle Avoidance Lase	er/Emergency Stop, e	etc.
		Hard	ware Support CAN l	ous, RS-485, RS-232, F	RJ45, USB	
		Commi	unication Protocol S	upport CANOPEN, Mo	odbus, etc.	
		Start	Button/Pause Butto	n/Reset Button/Teac	h Button	
			Ambient Temp	erature: -10°C~45°C		
		Ar	mbient Humidity: 59	%~95 % (No Condens	ation)	
			Indoo	or Use Only		
		N	one/ Class 6 (Class 1	.000) / Class 5 (Class	100)	

AUCTECH 15 AUCTECH 16

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.
 The operating time depends on requirements such as operating conditions and rhythm.
 Models X25-1800 and X16-2000 are not recommended because of their long arm span which may cause overturning risk when used with AGV. please consult the manufacturer if necessary.

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 • Sensor • Multiple • Flexible and Support Power Supply Installation Specifications Combination

AUCTECH Delivery System track system provides path guidance 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.



Track Connection and Power Supply Module

Frack
 Power
 Force
 Track Installation
 Connection
 Fulcrum
 Adjustment

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.



Monorail Car

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
 Power-on Reset
 Combined

 Drive
 Switch
 Rotation
 in Place
 Controller
 Self Check
 Application

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

• Cylinder • Accurate • Horizontally • Operating Drive Positioning Adjustable Load Support

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 Opto

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

Spec.	Value
Weight (kg)	5.6
Material	Aluminum Alloy
Surface	Anodization
Accessories1	Ni-Cu
Accessories2	Plastics

Track Bends

Spec.	Value			
Size	90°R220	45°R220	90°R520	45°R520
Weight (kg)	3.7	2.2	7.8	4.3
Material	Aluminu	m Alloy		
Surface	Anodizat	ion		
Accessories1	Ni-Cu			
Accessories2	Plastics			

Track connection and power supply module and accessories

Spec.	Value
Weight (kg)	0.5
Material	Aluminum Alloy
Accessories1	Cu
Accessories2	Plastics
Accessories3	Steel

Track and Accessories

Spec.	Value
Size (mm)	325 X 410 X 17
Weight (kg)	7.8
Positioning Accuracy (mm)	±0.1
Operating Pressure (bar)	4-6
KPa (bar)	5
Gas Circuit Connection	ø4mm

Monorail Car

Spec.	Value
Size (mm)	350 X 203 X 150
Weight (kg)	≤4.5
Max Operating Speed (m/min)	36 or 60 (Optional)
Deceleration Running Speed (m/min)	20 (Adjustable)
Max Weight (kg)	11 (Excluding Dead Weigh
Parking Accuracy (mm)	±1
TRNF	Rolling Contact
Running Direction	Forward and Reverse
Supply Voltage (VDC)	24
Cuppij Tollage (TDO)	

Turnout

	Spec.	Value
	Material	Aluminum Alloy
	Rotation Angle (Main Road/Guide)	60, 150, 210
	Rotation Angle (Diversion/Convergence)	120, 240
	Joint	1xRS232, 3xDI, 4xDO
t)	Load (kg)	34 (Inclduing Dead-Weight
	Supply Voltage (VDC)	24
	Weight (kg)	14
	Rotation Time	150°=1.4s, 60°=0.65s, 210°=1.9
	Rotation Time	120°=1.3s, 240°=2.3s

Communication Module

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

AUCTECH 17

AUCTECH 17

7-Axis Cobot

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.

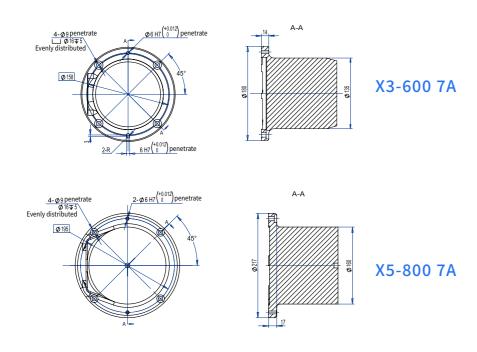
7-Axis Cobot has various functions such as rapid deployment, traction teaching and collision detection. It is particularly suitable for flexible production lines with compact layout and high precision to conduct precision assembly, product packaging, polishing, testing, machine loading and unloading 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.

Technical Parameters >>>

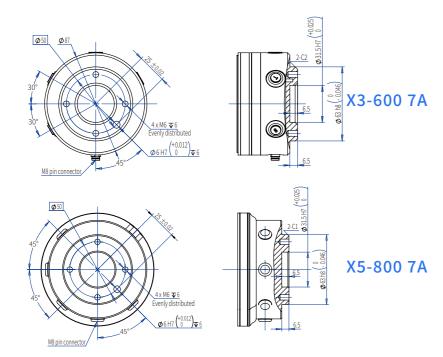
	X3-600 7A	X5-800 7A
Max Payload	3kg	5kg (5.5kg*1)
Degree of Freedom	7	7
Max TCP Speed	2.5m/s	2.0m/s
Max Straight-line Speed	1.0m/s	1.0m/s
Reach	600mm	800mm
Repeatability	±0.02mm	±0.02mm
Joint	Range Max Speed	Range Max Speed
J7	Infinite Spins 180°/s	±180° 180°/s
J6	±120° 180°/s	±110° 180°/s
J5	±180° 180°/s	±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 Interface	GB/T 14468.1-50-4-M6(eqv ISO 9409-1) GB/T 14468.1-50-4-M6	
Control Box I/O	14 Dig I/O, 24V, 0.5A	14 Dig I/O, 24V, 0.5A
End Joint I/O	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 250W	Typical Power Consumption 400W
Robot Dimensions	1035x232x202mm	1285x220x240mm
Control Box Size	530x480x180mm	530x480x180mm
Installation	Installed in Any Direction	Installed in Any Direction
Ambient Temperature Rang	-10°C~45°C	-10°C~45°C
Storage Temperature Range -40°C~55°C		-40°C~55°C
IP Class IP54		IP54
Robot Package Size	735x635x350mm	735x635x350mm
Control System Package Size	698x588x450mm	698x588x450mm
Net/Gross Weight	24kg/34kg	24kg/33kg

7-Axis Cobot

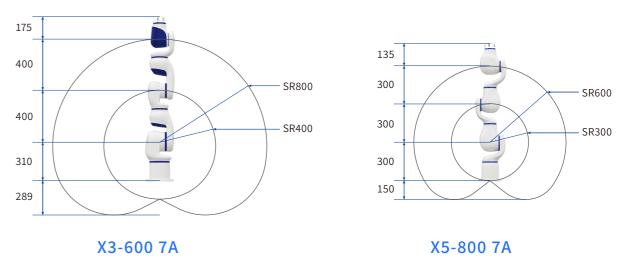
Base Flange >>>



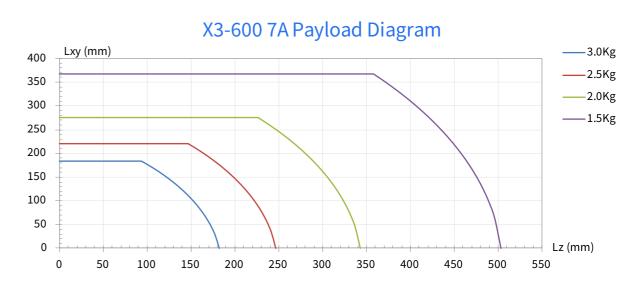
Tool Flange >>>

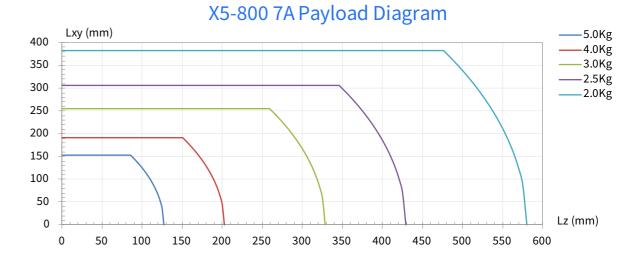


Work Space >>>



Payload Diagram >>>





X Series Palletizing Work Station

Product Features



Flexible Deployment

Modular design, easy to transport, fast deployment, and flexible production.

Safe and Efficient

No safety fence is required, and operators can work together with robots; Replace heavy handling work, reduce labor intensity, and improve production efficiency.

Easy Operation

Movable base cabinet, complete palletizing process kit, easy to program and debug, quick to get started.

Wide Application

Suitable for industries such as food, medical, and electronics.

Product Composition

1 Collaborative Robot

2 Electrical Control Cabinet

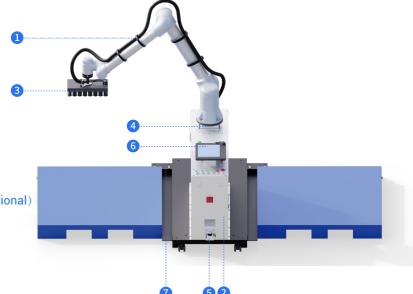
3 End Suction System such as Vacuum Gripper

4 Lifting Column (Optional)

5 Safety Peripherals such as Safety Laser Scanner (Optional)

6 Teach Pendant With PalletStudio System

Movable Base and Pallet Positioning System



Technical Parameters >>>

Palletizing Height	1600mm(including pallet 1200mm*1000mm, by lifting device) MAX height: 2400mm(by elevating device)
Payload	25kg
Working Radius	1800mm
Effciency	6-8 boxes/min
Floor Space	1500mm*2100mm
Rated Power	1500W
Power Supply	100~220V AC
Lifting Column	Lifting height 800mm

Dual-arm Series Cobot

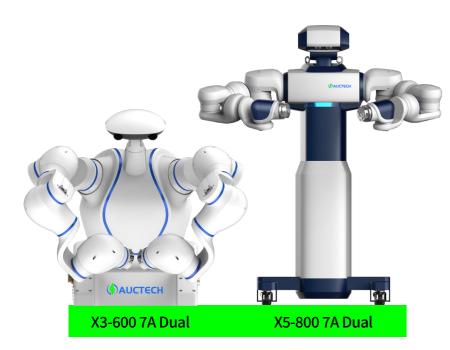
Product Features

More Intelligent

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.

Attractive and Compact Design

The robot is integrated designed with build-in control box.

More Accurate

Repeatability up to ±0.02mm.

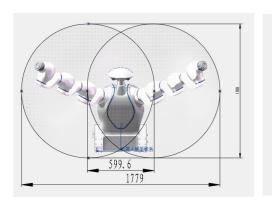
Dual-arm series cobot is featured with high flexibility, extreme safety, rapid deployment. It provides an overall solution for assembling by fast, safe, agile, accurate, and highly efficient positioning and operation, which also provides a better develop environment with more freedom and possibility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

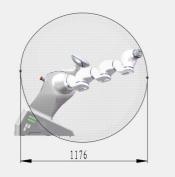
Technical Parameters

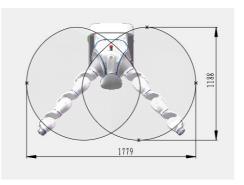
	X3-600 7A Dual	X5-800 7A Dual	
Max Payload	6kg (3kg x 2)	10kg (5kg x 2)	
Degree of Freedom	Each arm 7x2, Head 2, Head is optional	Each arm 7x2, Head 2, Head is optional	
Max TCP Speed	2.5m/s	2.0m/s	
Max Straight-line Speed	1.0m/s	1.0m/s	
Reach	600mm x 2	800mm x 2	
Repeatability	±0.02mm	±0.02mm	
Joint	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	
Robot Package Size	1200x1000x1040mm	1100x1100x1900mm	
Net/Gross Weight	70kg/100kg	200kg/250kg	

Dual-arm Cobot

Work Space >>>







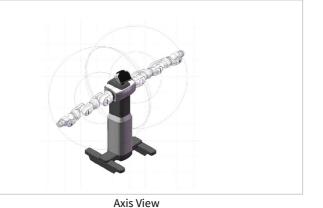
Front View

Side View

Top View

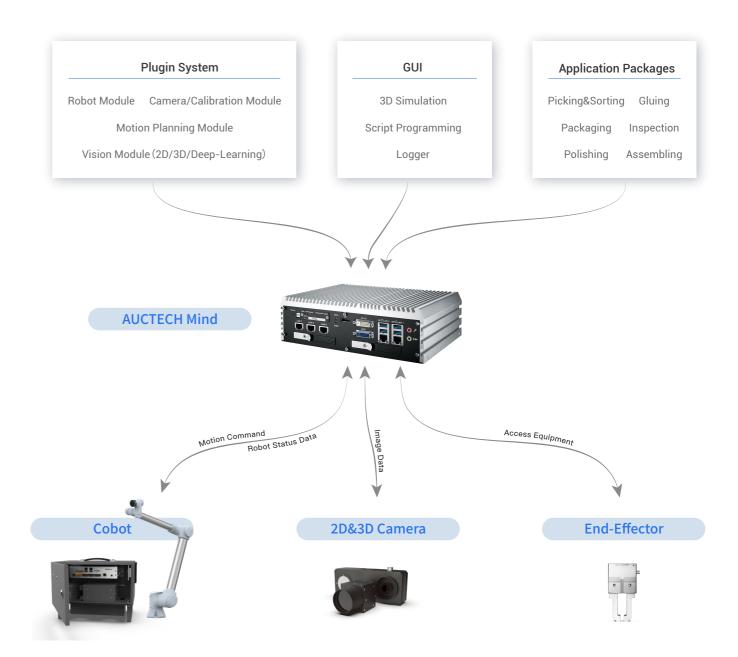






AUCTECH Intelligent Application Controller

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

2D Recognition

Product Features >>>











High performance CPU (i3/i5/i7) acceleration

Serial port and other expansion interfaces

Multiple camera interfaces (POE,USB3.0)

Technical Parameters >>>









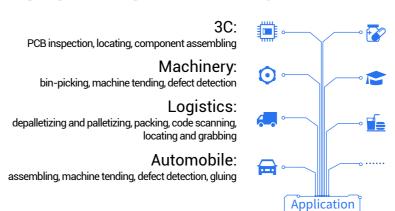
AUCTECH Mind-Mini AUCTECH Mind-Lite

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

AUCTECH Mind



Medicine:

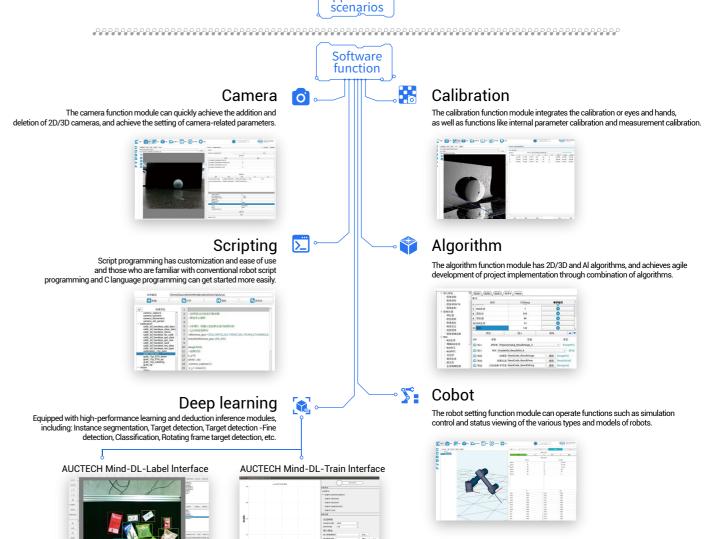
locating grabbing, code scanning, inspection, packaging

Scientific research:

scientific research teaching, expanding practice

Food:

Scanning code, inspection, packing, depalletizing and palletizing



AUCTECH Mind-DL-Label is an image AUCTECH Mind-DL-Train is a model training software that can annotation software that can annotate accept datasets exported by AUCTECH Mind-DL-Label software for raw images with rectangles, polygons, model training, and can choose training methods, including object rotating rectangles, and categories, and detection, rotating object detection, instance segmentation, label each annotation box, ultimately classification, etc., and ultimately export DMMODEL model files exporting a standard format dataset suitable for AUCTECH Mind intelligent software. suitable for AUCTECH Mind-DL-Train.

AUCTECH 29 AUCTECH 30

We Are Dedicated to The Advancement of Cobot









Electrical Gripper



Laser Scanner



Force Sensor



Force Sensor



Gateway&IO Expansion Module



Quick-Change Flange



Simulatin&Off-line Programming



Optical Positioning&3D Scanner



Welding Machine

MEGMEET

Dress Packs



Tightening System



Protective Clothing



Lifting Column

