AUCTECH

Robotics and Motion Control

CONTENT

About Company

AUCTECH has over **15 years of experience** in robot development and manufacturing, AUCTECH's product line includes **industrial robots, collaborative robots, SCARA robots, motion controllers, CNC systems, servo systems, and more.** Based on a deep understanding of customer requirements and rich market application experience, AUCTECH products integrate a variety of peripheral technologies such as **AGV, vision, welding, force control sensors, etc.** Through continuous innovation, AUCTECH provides excellent products and solutions that truly meet customer needs and bring the greatest value.

AUCTECH has established agents in **Southeast Asia and Mexico, Brazil, Portugal, Poland, Austria, Bulgaria**, etc..

AUCTECH focuses on the R&D and innovation of robotics and motion control products and complete solution for industrial automation and commercial automation, with a large scale of product lines:

1

Advanced Robotics:
Cobots, Industrial robots,
Composite robots

2

Professional Motion Control:
Codesys PLC/Motion controller,
Servo drive & Servo motors, CNC

3

General Automation:
PLC, HMI, VFD, Sensor...

AUCTECH

M6 CNC

Modbus TCP
Modbus RTU

B/X Series Robot/Cobot

Modbus TCP
Modbus RTU
EtherCAT
EtherNet/IP

HMC-G/S Motion Controller

EtherCAT

EtherCAT   CANopen   Modbus TCP

Modbus TCP
EtherCAT

C8 Servo

A7 Spindle

Welder

Machine Vision

AD3 Servo

AGV

Execution Fixture

HT3000 HMI

AD2/AD3 Servo

HV320 Inverter

SK Motor

GMAZ Spindle Motor

ASK Motor

ASK Motor

Robot Product Line

3 Series of Cobot and Robots of AUCTECH
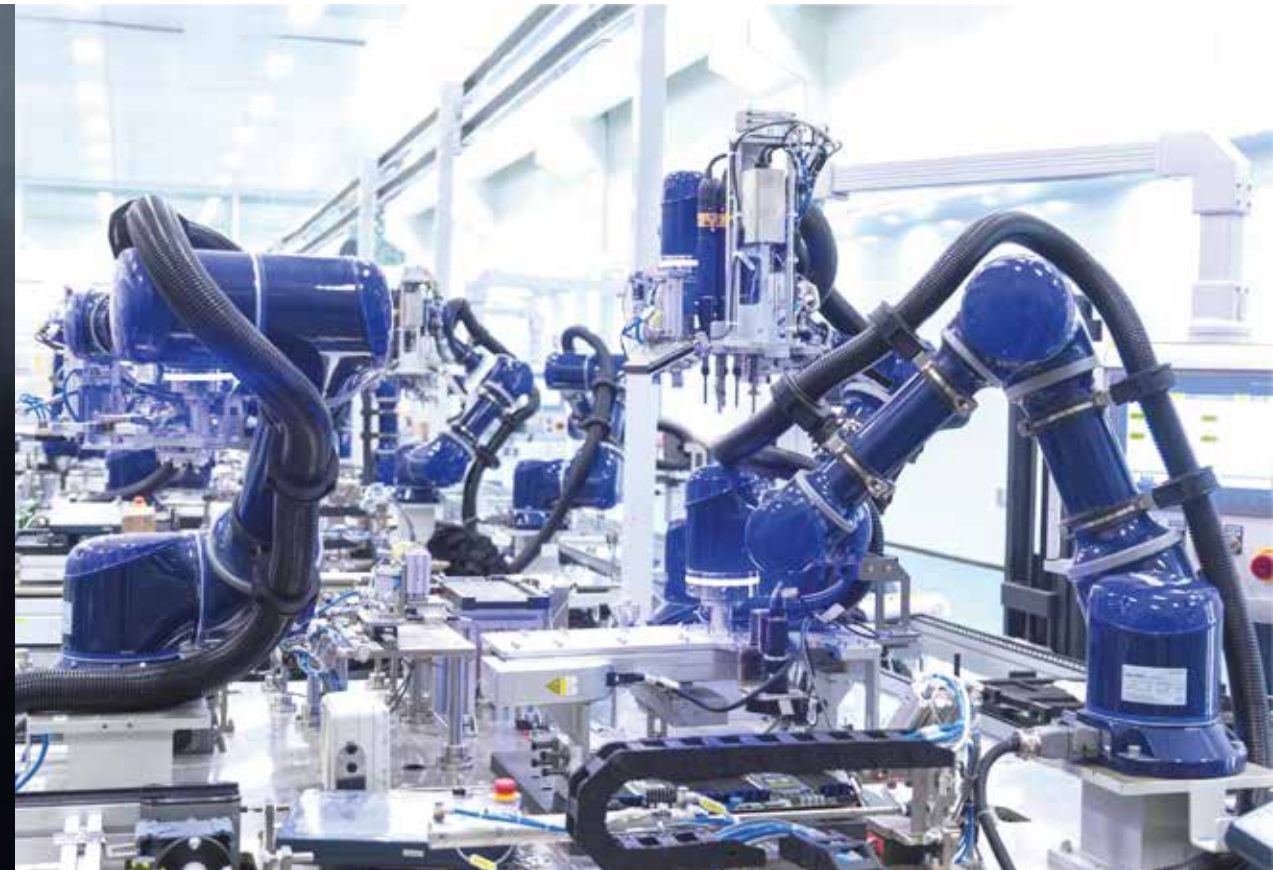

X Series Cobot

A Series Cobot

B Series Industrial Robot

Application

Industrial application: palletizing, assembly, inspection, welding, loading and unloading, automotive manufacturing, electronics manufacturing, logistics, etc.

Application

Commercial application: catering, entertainment, medical, showcasing......

VISION

01

To become a One-stop supplier of robotics and motion control for global market

02

To Improve the automation level of human's manufacturing continuously
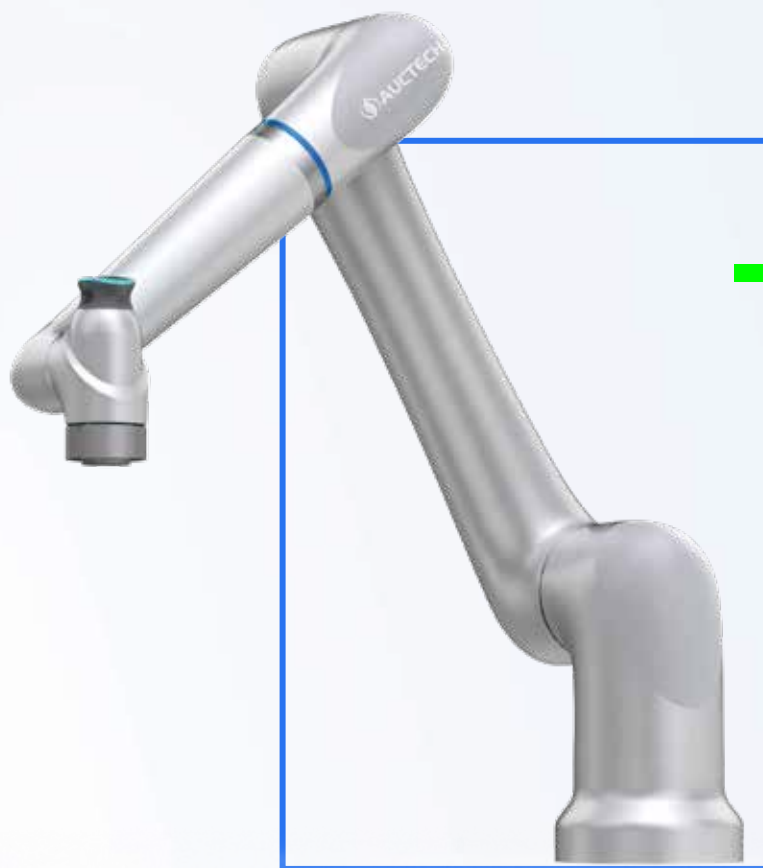
03

To make human life more convenient

Human Being Creates The World with Consciousness !!

02

▶▶

AUCTECH
Cobot

● part 2

AUCTECH

A Series

Collaborative Robot

A Series Collaborative Robots

Collaborative Robots ▶▶

ASR-3
Payload 3 kgs
Reach 705 mm

ASR-4
Payload 4 kgs
Reach 919 mm

aPad-2
FlexPendant
10.1 Inches

ACR-7
Payload 7 kgs
Reach 988 mm

ACR-12
Payload 12 kgs
Reach 1434 mm

ACR-18
Payload 18 kgs
Reach 1062 mm

ACR-20
Payload 20 kgs
Reach 1798 mm

The Most Advanced Cobot in Market

AUCTECH

Lightweight & High Speed
Cabinet-free design reduces system weight by 50% and allows for fast installation and flexible deployment

High Positioning Accuracy
Position holding accuracy of ±0.1 mm powered by suction contracting brake and dynamic feedforward compensation

Ease of Use
Graphical programming interface with flowcharts enables users to get started within 1 hour

Direct teaching control with 1N based on point position and continuous trajectory

Extreme Safety
Sensitivity improved by 10 times thanks to the collision detection by torque sensors

AUCTECH

X Series

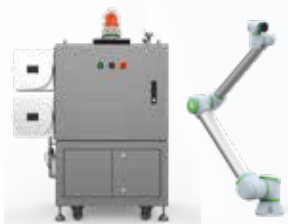**Collaborative Robot**

Industrial & Commercial Fileds Applied

AUCTECH

X-Series

01 6-Axis Cobot

02 Explosion-Proof Cobot

03 Mobile Cobot

04 The Palletizing Work Station

05 7-Axis Cobot

06 Dual-Arm Cobot

X Series Collaborative Robots

6-Axis Cobot ▶▶

X10-1300   X7-910   X5-910   X3-618

X16-960   X12-1300   X20-1400   X16-2000

X30-1100   X25-1800
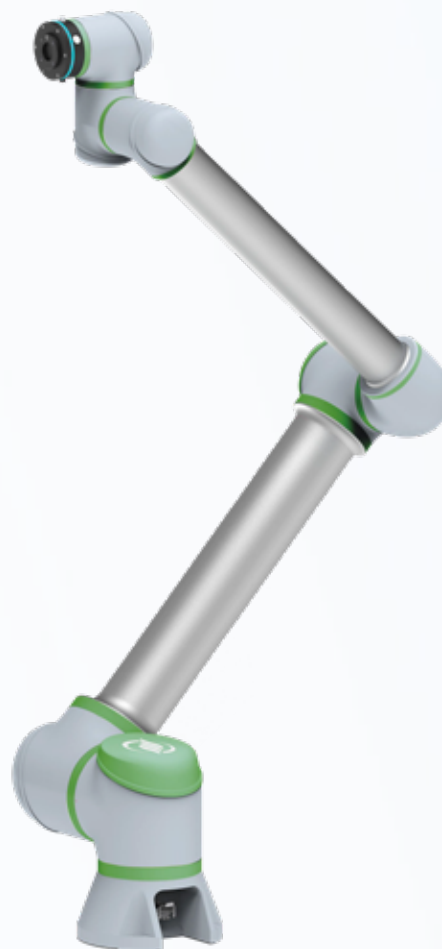
With significant advantages of higher payload and working range, and features of cobot such as collaborative safety, easy-to-use and energy-saving, these robots can adapt to more application needs.

X Series Collaborative Robots

Mobile Cobot (6-Axis) ▶▶

B-Type

L-Type

T-Type

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.
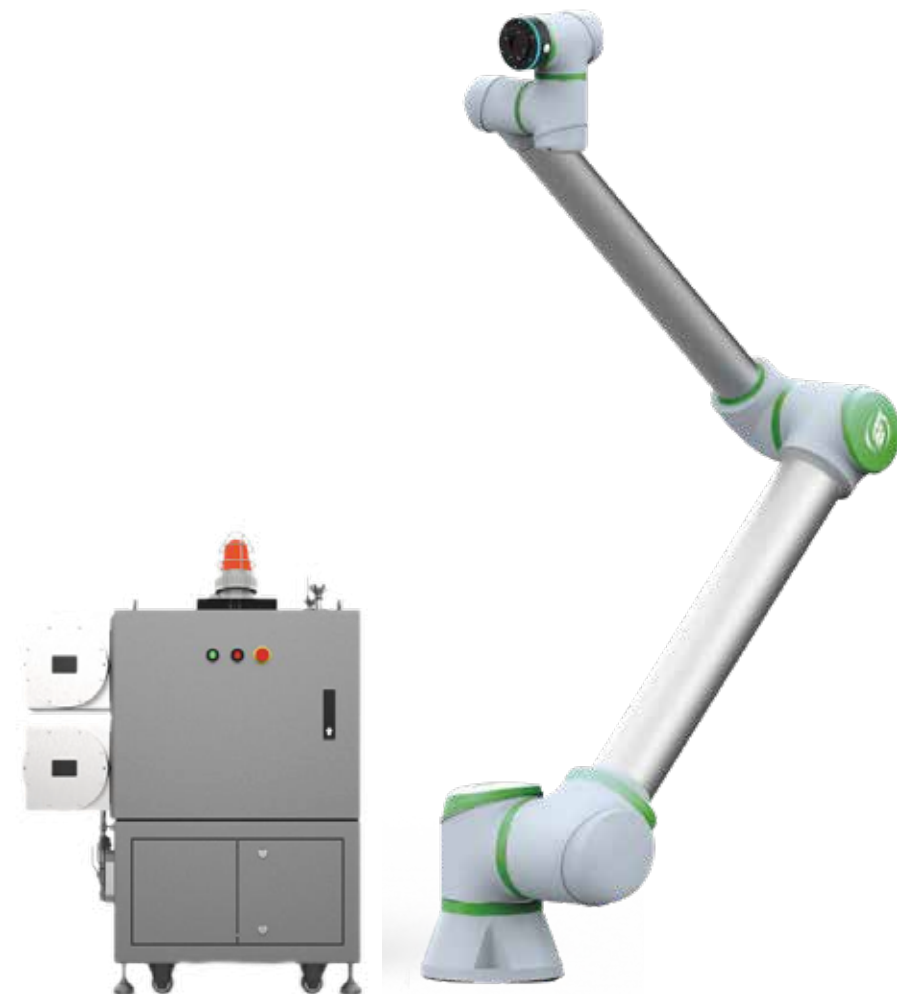
X Series Collaborative Robots

Explosion-Proof Cobot (6-Axis) ▶▶

X10-1300 ATEX   X20-1400 ATEX   X25-1800 ATEX   X16-2000 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.

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X Series Collaborative Robots

7-Axis Cobot ▶▶

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.
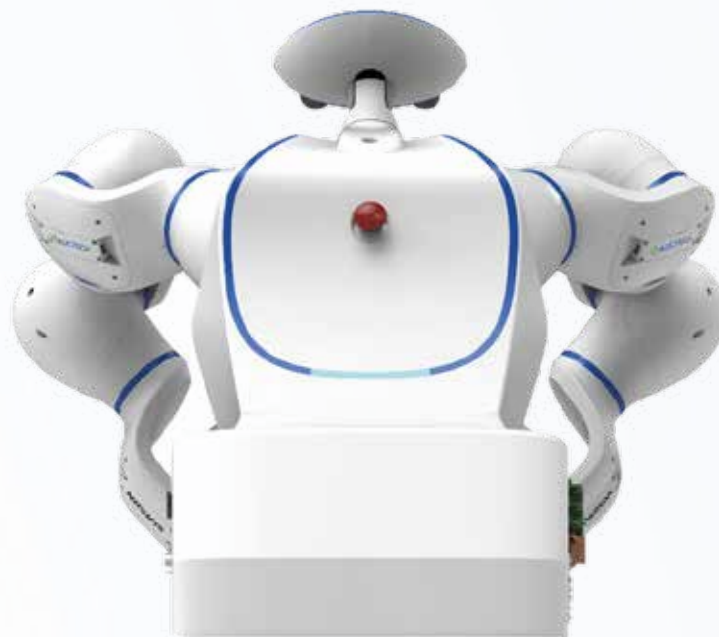
X3-600 7A

X5-800 7A

AUCTECH

X Series Collaborative Robots

Dual-Arm Cobot (7-Axis) ▶▶

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

X5-800 7A

X Series Collaborative Robots

The Palletizing Work Station ▶▶

AUCTECH can deeply cultivate the application of palletizing industry, cooperate with industry partners, and provide turnkey mode palletizing work station products for end customers relying on AUCTECH's technical reserve and R&D capability. Excellent application interaction, rapid application deployment, and short investment return period make palletizing a very light work.
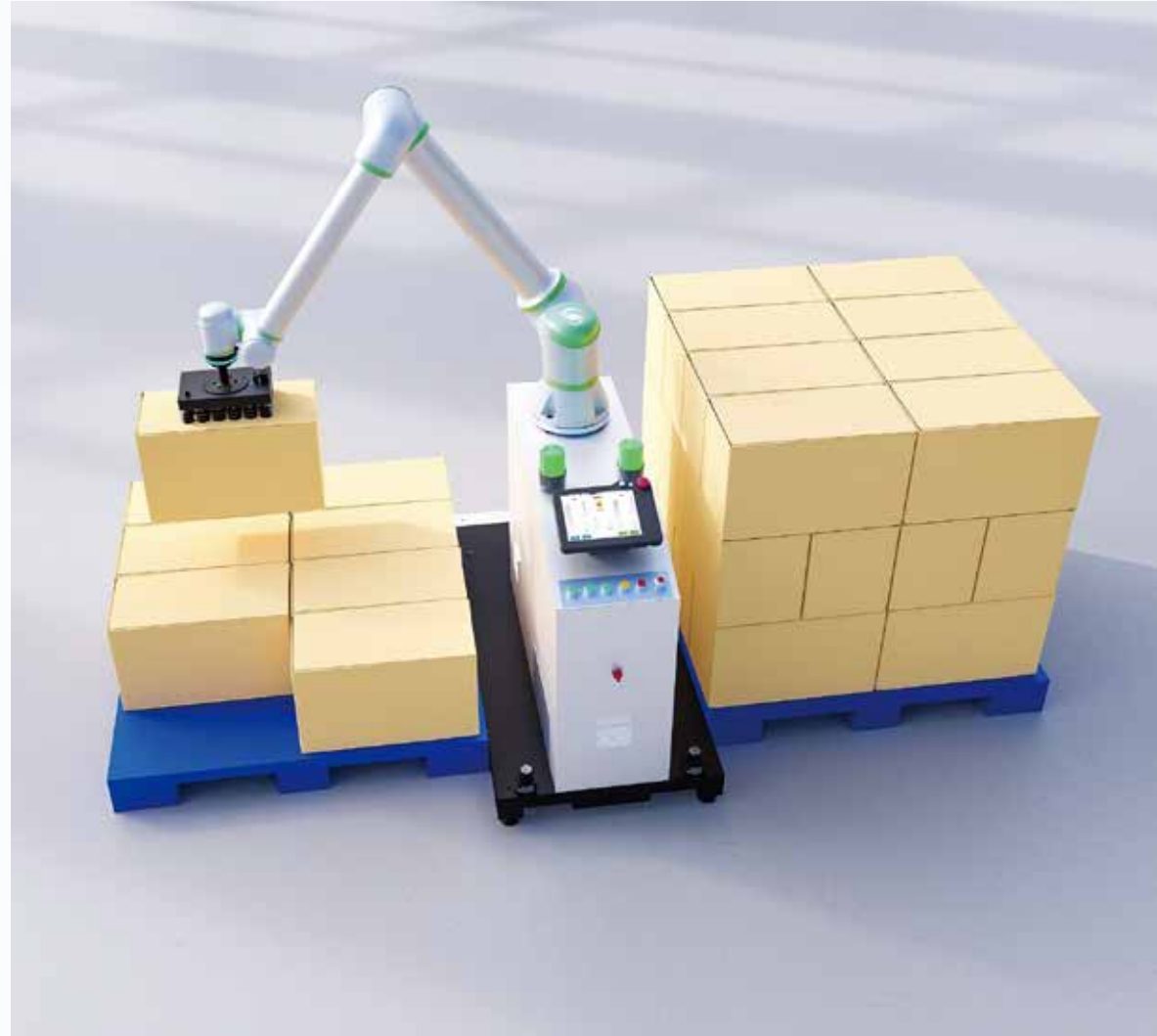
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X Series Collaborative Robots

The Palletizing Work Station ▶▶

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❶ Collaborative Robot

❷ Electric Control Cabinet

❸ Vacuum Gripper

❹ Lifting Column （Optional）

❺ Safety Laser Scanner （Optional）

❻ Teach Pendant

❼ Mobile Base and Pallet Positioning System
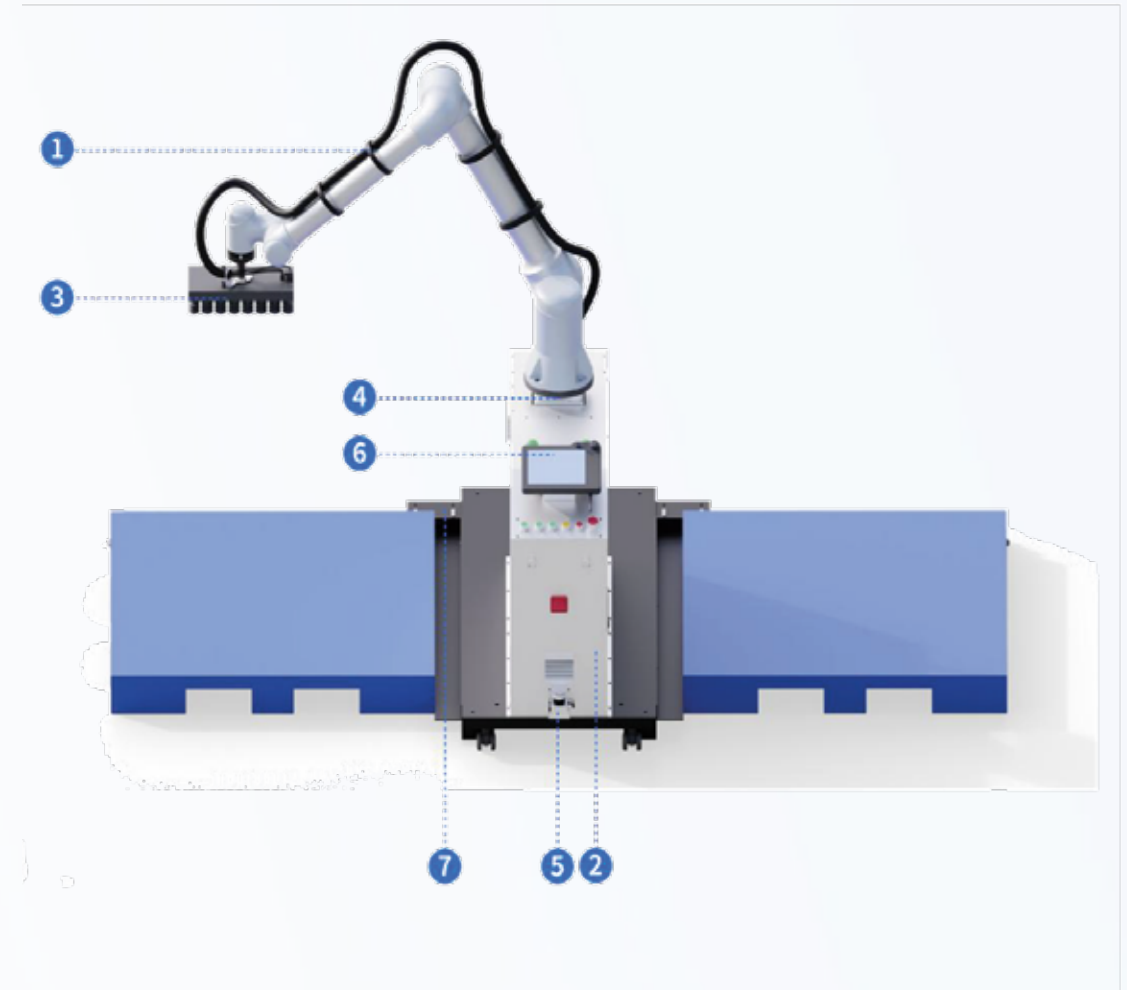
X Series Collaborative Robots

Welding Cobot Package▶▶

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AUCTECH Welding Cobot Package:

• Comprehensive solutions for diverse welding needs
• Multi-industry applications
• Advanced welding machines
• Supports multiple welding processes
• One-stop solution
• Time and cost-efficient

Package content：
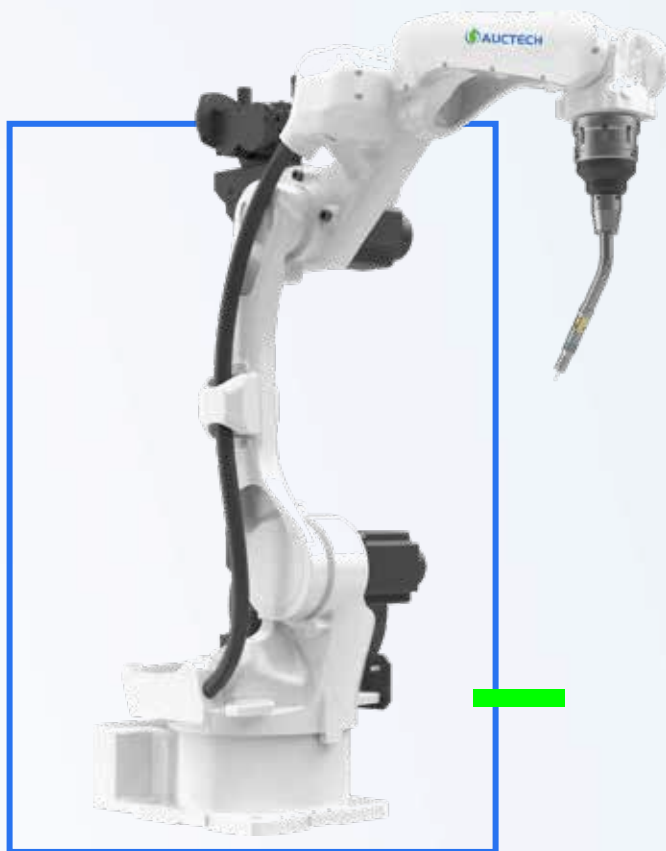- Cobot
- Laser welding torch
- Reservation Box
- Wire feeder and Wire Box
- Teach Pendant
- Welding Source Machine

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03

▶▶

AUCTECH
Industrial Robots

● part 3

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B Series

Industrial Robot

B Series Industrial Robots

Robots Portfolio ▶▶

BM Series
Large-load 6-Axis Robot

Payload:	180kg	210kg	280kg
Reach:	3200mm	2650mm	2650mm

BR Series
6-Axis Robot

Payload:	12kg	60kg	80kg
Reach:	1550mm	2680mm	2250mm

BM Series
Universal 6-Axis Robot

Payload:	20kg	35kg	45kg
Reach:	2100mm	1870mm	1870mm

BR Series
4-Axis Robot

Payload:	10kg	30kg
Reach:	1488mm	1750mm

Welding Robot

Payload:	10kg	12kg
Reach:	1440mm	2010mm

BM Series
Mini 6-Axis Robot

Payload:	4kg	10kg
Reach:	580mm	740mm
		920mm

SCARA Robot

Payload:	Rated 1kg Max 4kg	Rated 5kg Max 10kg	Rated 10kg Max 25kg
Reach:	300mm	500mm	800mm
	400mm	600mm	900mm
		700mm	1000mm

B Series Industrial Robots

BM Series Large-load 6-Axis Robot ▶▶

BM-210-2650

BM-180-3200

BM-280-2650

Working radius up to 3200mm, payload up to 280kg

Protection level: IP54/IP67

Suitable for: loading and unloading, handling, painting, cutting, and other heavy-duty tasks

B Series Industrial Robots

BR Series 6-Axis Robot ▶▶

BR-12Z-1550   BR-80E-2250   BR-60E-2680

🏆 Working radius up to 2680mm,payload up to 80kg

🎯 Protection level: IP56/IP67

⭐ Wide range of applications: laser welding, painting, cutting, handling, packaging, loading and unloading, grinding, etc.

AUCTECH

B Series Industrial Robots

BM Series Universal 6-Axis Robot ▶▶

⚡ Working radius up to 2100mm, payload up to 45kg

🏷 Protection level: IP54/IP67

🌐 Wide range of applications: painting, loading and unloading, handling, cutting, laser processing, grinding, die-casting, etc.

BM-45-1870

BM-20-2100

BM-35-1870

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B Series Industrial Robots

BR Series 4-Axis Robot ▶▶

BR-10C-1488

BR-30C-1750

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Working radius up to 1750mm, payload up to 30kg

Protection level up to IP56/IP67

Main applications: loading and unloading, handling, palletizing, packaging

B Series Industrial Robots

Welding Robots ▶▶

- 2 models, working radius up to 2010mm

- Payload up to 12kg

- Protection level: IP56/IP67

- Wide range of applications: GMAW, GTAW, Laser Welding

Welding Robots

BR-10W-1440-D   BR-12-2010

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B Series Industrial Robots

BM Series Mini 6-Axis Robot ▶▶

Working radius up to 920mm, payload up to 10kg

Repeatability: ±0.02mm

Protection level: IP67

Wide range of applications: sorting, inspection, loading and unloading, labeling, dispensing, assembly, and handling

BM-04S-580

BM-10S-740

BM-10S-920

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B Series Industrial Robots

SCARA Robots ▶▶

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- 8 models, working radius up to 1000mm

- Payload up to 25kg

- Repeatability: ±0.01mm

- Wide range of applications: sorting, loading and unloading, labeling, dispensing, assembly, and handling

BM-04SC-300

BM-04SC-400

BM-10SC-500

BM-10SC-600

BM-10SC-700

BM-25SC-800

BM-25SC-900
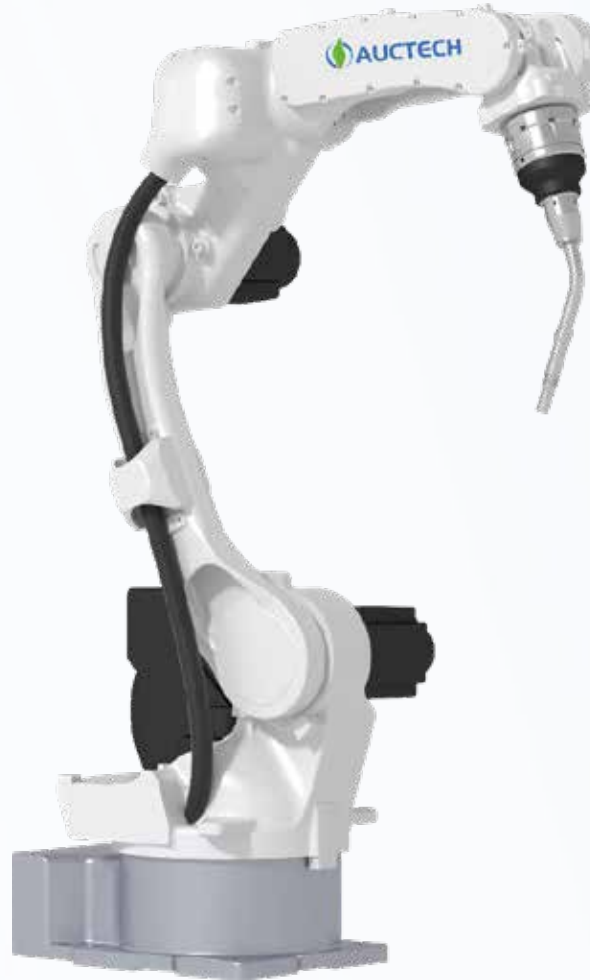
BM-25SC-1000

Welding Robot Package

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Wire Box and Wire Feeder

Reservation Box

Welding Source Machine

The Robot and Welding Torch

Teach Pendant

04

AUCTECH Motion Control System

Based on CODESYS environment

HMC Series

Motion Control System

 CODESYS

AUCTECH

Motion Controller

G Series Motion Controller
128 / 256 Axes control

S Series Motion Controller
8 / 16 / 24 Axes control

Servo Drive & Servo Motor

AD2 Series Serve Drive
200W-15KW

AD3 Series Servo Drive
200W-750W

AUCTECH Motion Control Product Overview

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Motion Controller

| HMC-**G** Series | HMC-**S** Series | TM6 Coupler Modules | TK6 Expansion Modules |

- G3
- G4
- G5
- G6

- S3
- S3B
- S3E

- 32DM-N

- Digital
- Analog
- Tempreture
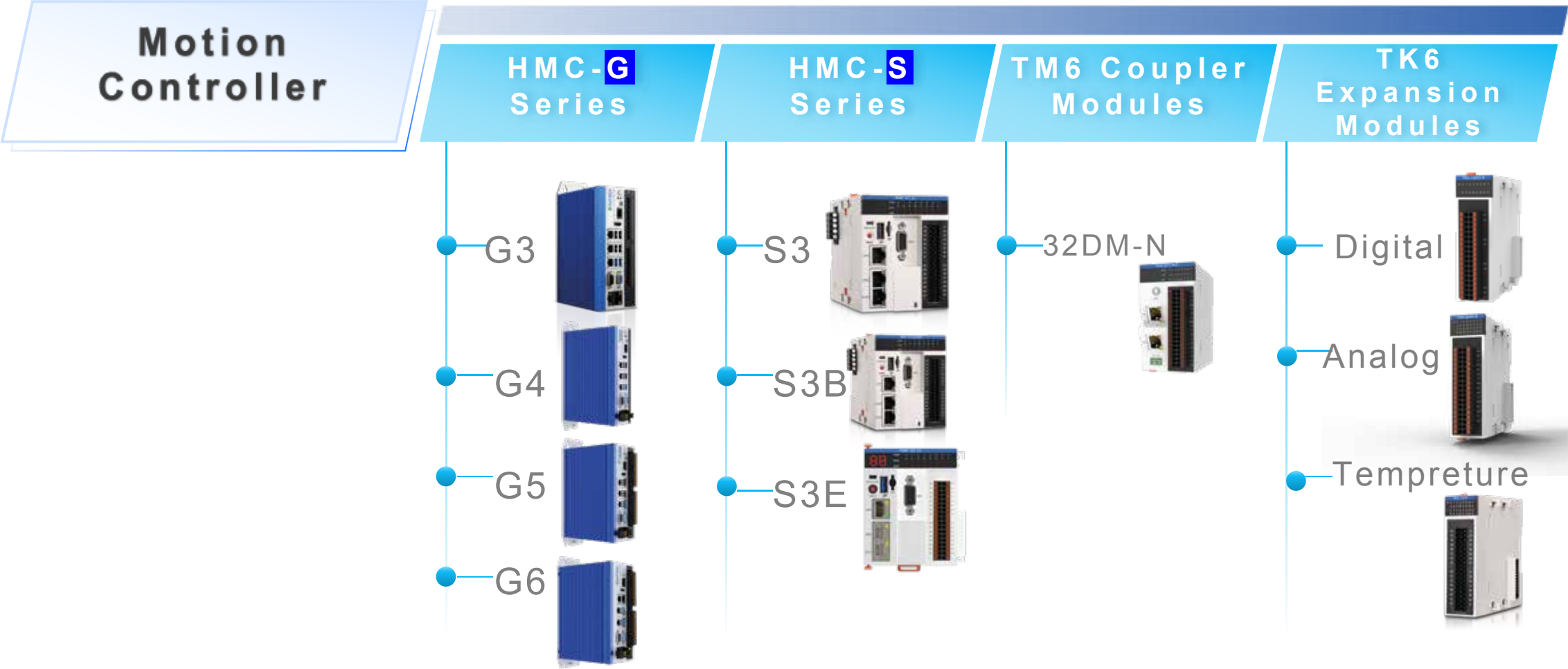
• Hardware Interface

AUCTECH

USB

G3 : 1 x USB3.0,5 x USB2.0
G4-G6 : 4 x USB3.0
Built-in USB2.0 pluggable dongle

Gigabit LAN

4 x Intel Gigabit LAN
Supports EtherNet/IP, OPC UA,
Modbus TCP, network variables,
TCP/IP, free protocols, Web Visu, etc.

EtherCAT

High-speed real-time bus, minimum
500us cycle. Flexible topology
Extremely low latency and supports
DC distributed clock

Power

DC12~24V wide voltage power
input, with overcurrent,
overvoltage and reverse
connection protection

0 1 I/O

Integrated DI\DO
Isolate DI and support wet and dry nodes
Isolated DO, supports NPN/PNP optional

Switch button/ indicator light

1 x power on/off button
1 x power indicator light
1 x hard drive read/write
indicator light

serial port

1 x RS-232/485 (switchable)
2 x RS485 terminal output
RS-485 supports automatic data
flow control

HDMI/VGA

1 x VGA
1 x HDMI

General Automation

Other Automation Lines

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PLC

CNC Controller

Inverters

HMI

Sensors

05

**AUCTECH
and Partners**

Core Vision

- Experienced R&D team and technical support team

- Advanced technology products

- Strict quality control management process

- Competitive price

- Perfect after-sales service system

A REAL RELIABLE LONG TERM PARTNER !!!

AUCTECH

Full Range of Automation Products

Customer Benefits

- Direct technical support
- One-stop automation supplier
- Comprehensive product functions
- Customized global solutions

A Strong and Professional Partner

Customer Benefits

- AUCTECH and HNC Electric listens and understand our clients requirement, by improving and upgrading our product functions and performance continuously.

- Robots and Cobots applications will be more widely in future, AUCTECH work with partners to develop hardware and software together.

Legend (HNC Electric):
- Company Branch
- Distributor
- SI
- OEM

Legend (AUCTECH):
- Company Branch
- Distributor
- SI

A Real Supportive and Reliable Partner

Customer Benefits

- AUCTECH is always doing best to provide all supports to partners, including technical support, commercial support, product customization support, marketing support and etc.

- AUCTECH is always standing together with our partners, to face and to satisfy the the market with our partners.

- AUCTECH is always supporting our partners.

AUCTECH

Looking forward to your joining!

THNAK YOU !

AUCTECH