Explosion-proof Cobot (6-Axis)

Explosion Proof

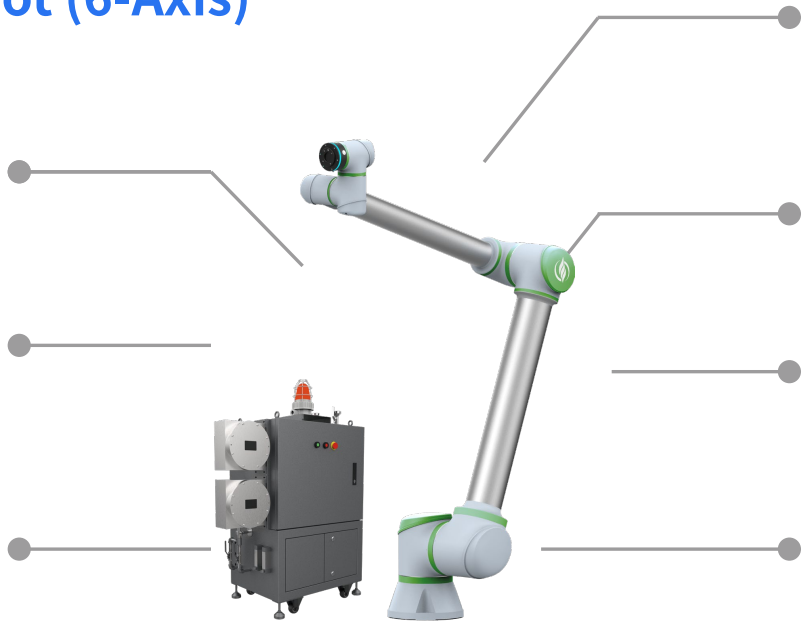
Explosion Proof: Ex db eb pxb IIC T4 Gb/Ex pxb tb IIC T130°C Db.

Multiple Explosion-proof 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

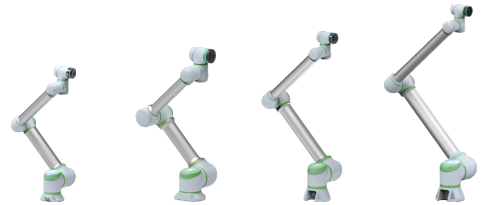
Explosion-proof Cobot (6-Axis)

Control Box

Weight	160kg
Size	1370*975*520mm
Power Supply	200-240VAC, 47-63HZ, 8A/100-200VAC, 47-63HZ, 16A
Rated Power	600W
Cable Length	5m (For other specifications, please consult your dealer)
Communication Mode	TCP/IP, Modbus/TCP, CAN, RS485, Profinet
Communication I/O	8DI, 8DO(PNP, 24V/MAX500mA)
Expand I/O	16DI, 16DO(PNP, 24V/MAX500mA)/4AI(Voltage), 4AI(Current)
IP Class	IP65
Operation Temperature	-10°C-50°C
Storage Temperature	-40°C-55°C
Humidity	20%-90%RH
Explosion Proof	Ex db eb pxb IICT4Gb/Ex pxb tb IIIC T130°C Db
Type of Gas Source	Clean Air

Control Box

Technical Parameters



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

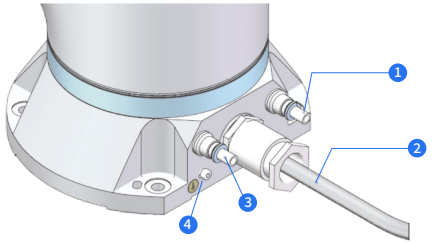
Please refer to the standard 6-axis cobot form for specific model and technical parameters details

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

Teach Pendant

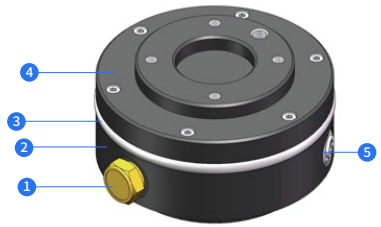
Size	248x172x22mm
OS	Android 10.0
Resolving Power	1280*800
VGA Size	10.1 16:10
IP Class	IP68
Weight	1095g
Power	AC100V~240V, 50Hz/60Hz, Output DC 5V/3A
DC Ports	DC 5V-3A ∮3.5mm

Diagram of the Base



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

Diagram of the Tool



1. Air Outlet Silencing Device
2. Tool Flange Body
3. Sealed Light Strip
4. Tool Flange Cover
5. Teach Button