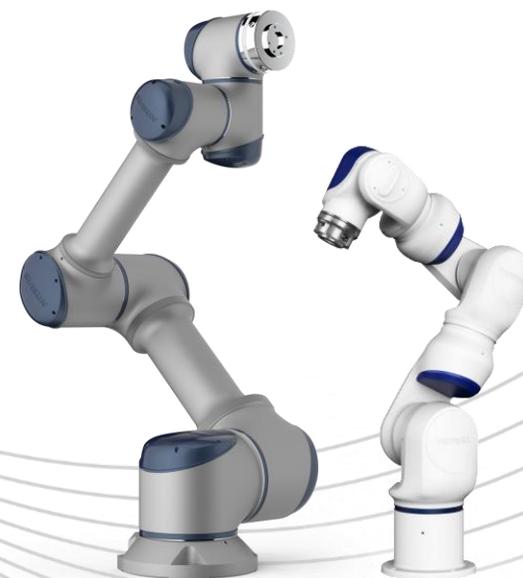


SIASUN 新松

Collaborative Robot

Create for More

Collaborate for Better



Catalog

Create for More
Collaborate for Better

01

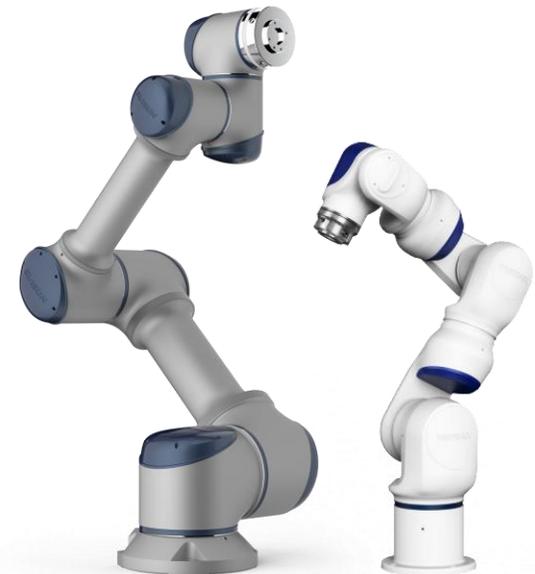
ABOUT COMPANY

02

COLLABORATIVE
ROBOT

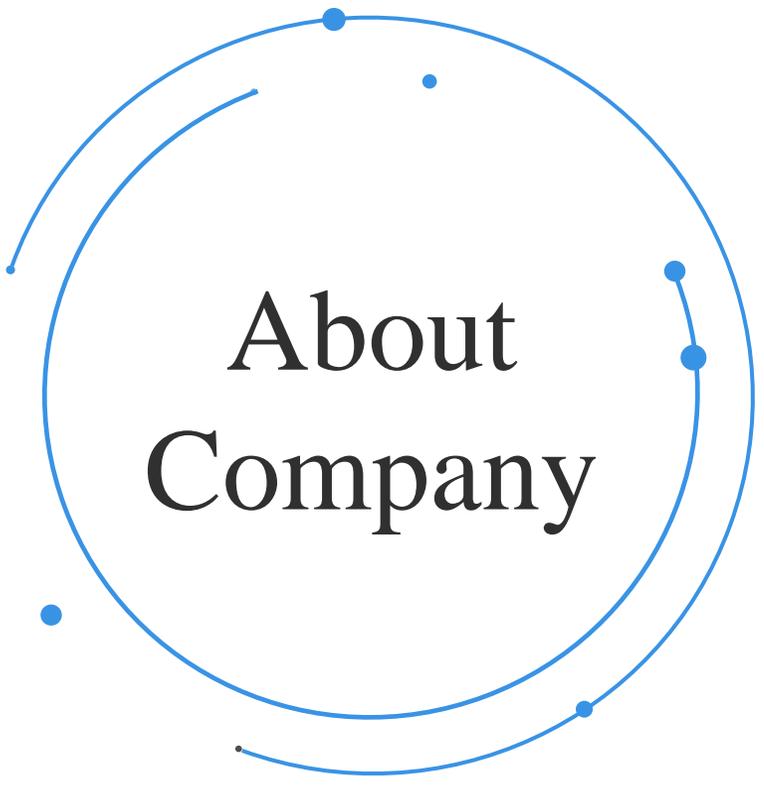
03

APPLICATION
& SERVICE





01



About
Company

Since 1980

A scientist



Mr. Jiang Xinsong (1931-1997)

Academician of Chinese Academy of Sciences;

Served as the chairman of Shenyang Institute of Automation, Chinese Academy of Sciences from 1980;

Founded China's first robotics engineering R&D center;

The chief scientist in automation area of the National High Technology Research and Develop Program (“863”Program) of China.

The Founder of Chinese Robot





SIASUN Milestones



Founded in Shenyang

2000



Went public

2009



International headquarter founded

2014



Mass production of Cobot at Lingang Industrial Park

2017

2007



Exported worldwide

2012



Chairman of China Robot Industry Alliance

2015



1st Generation Cobot Launched

2018



20kg Cobot GCR20-1100 Launched



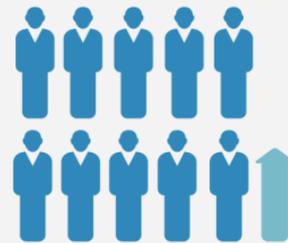
First-class Team



4000+ employees



Chinese Academy of Sciences
Academician **×2**



70% + Professional technician



60% + Master or higher degree
in technology or management



Company Honor



National Robot Engineering Research Center



China Well-Known Trademark



National Qualified Enterprise Technology Center



Intelligent Robot Industrial Base of "863" program



QMS Qualification



Construction Enterprise Qualification



Information System Integration Qualification



Environment Management System Qualification



National Leaders Visit SIASUN



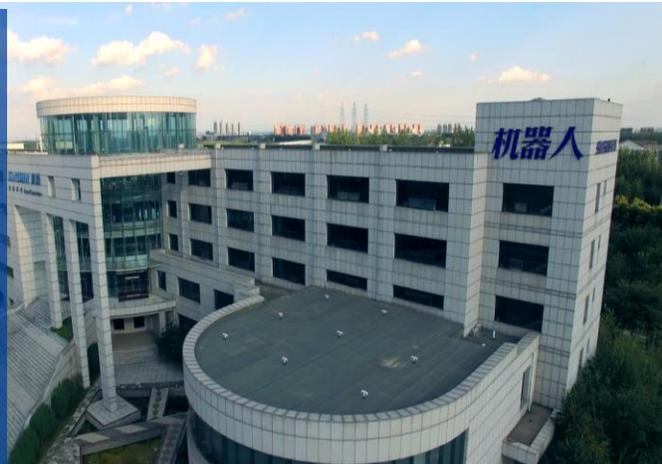


SIASUN Factories



Shenyang
Factory

First / Second
phase



Shenyang Factory
Third-phase

Hangzhou Factory



Shanghai Factory



A dark blue world map with glowing yellow city lights. Numerous blue and yellow location pins are scattered across the map, indicating global distribution. A semi-transparent dark blue horizontal band is overlaid across the middle of the map.

SIASUN Products Export to 30+ Countries



Typical Clients





◎ 2014 Shanghai

SIASUN International Headquarter
(SIASUN Co., Ltd.) founded

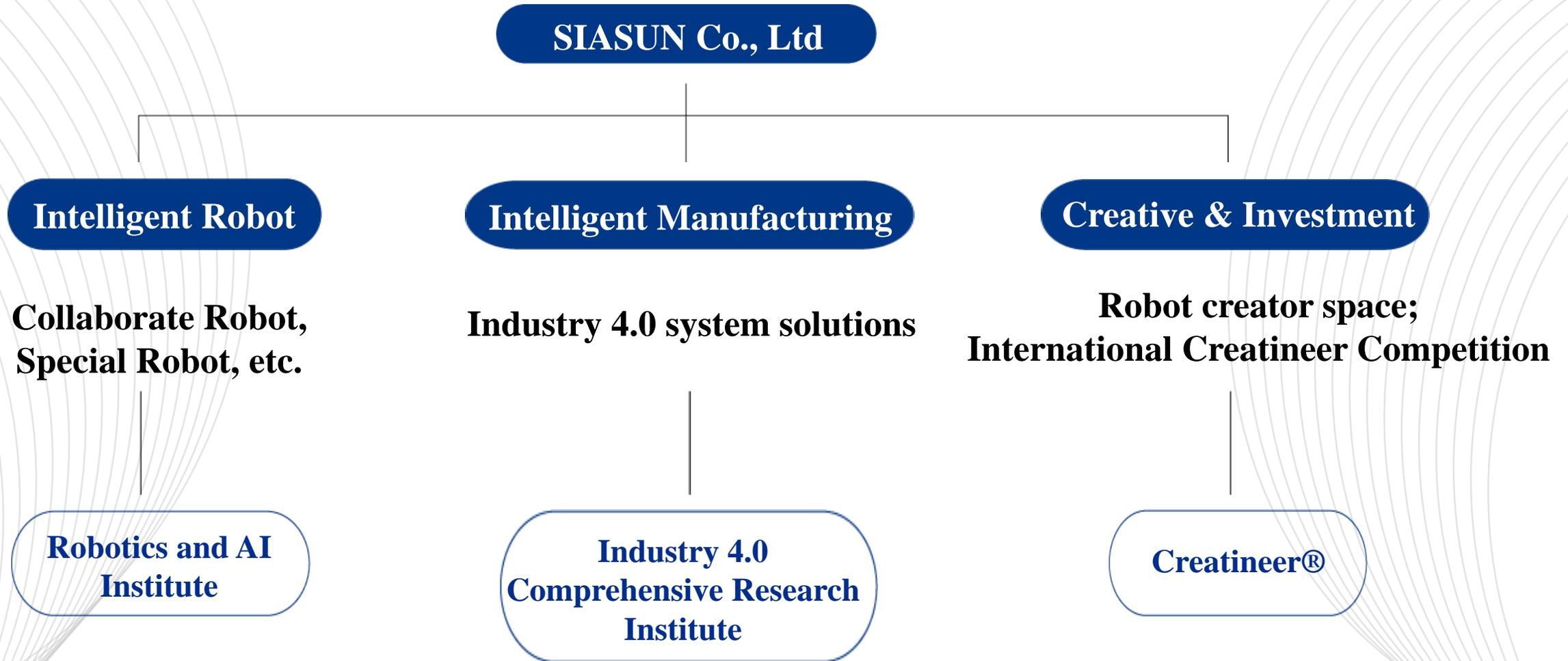


SIASUN Locations





Business Overview



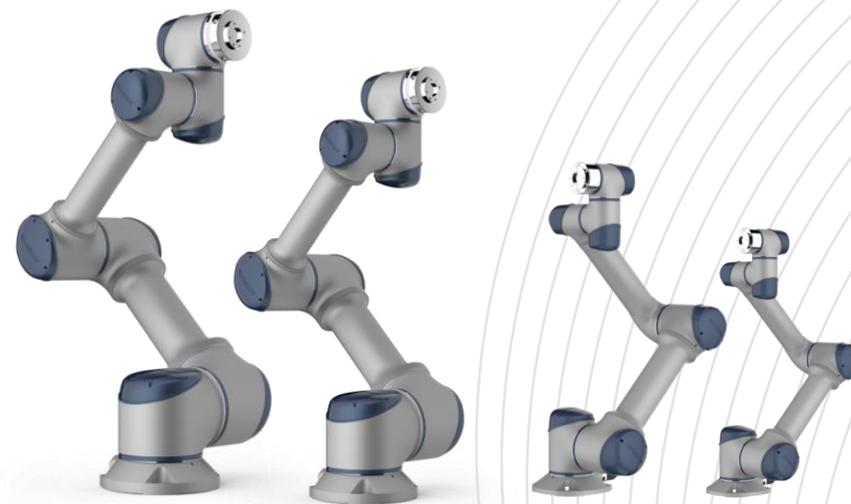


1. Intelligent Robot-Collaborative robot

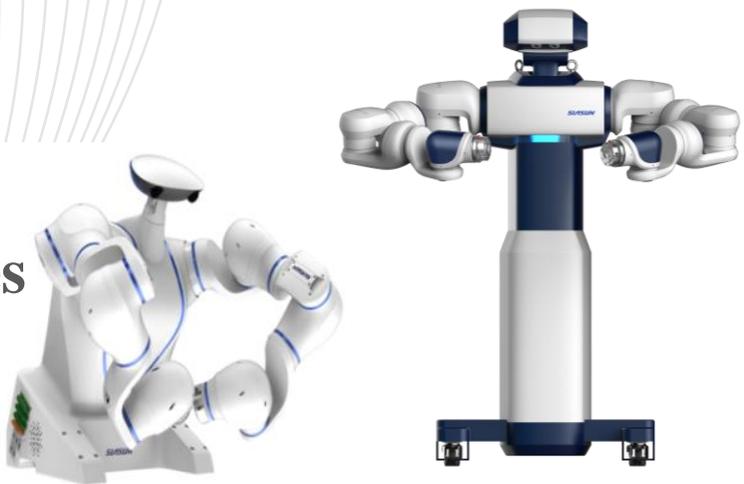
S Series



G Series



D Series



H Series

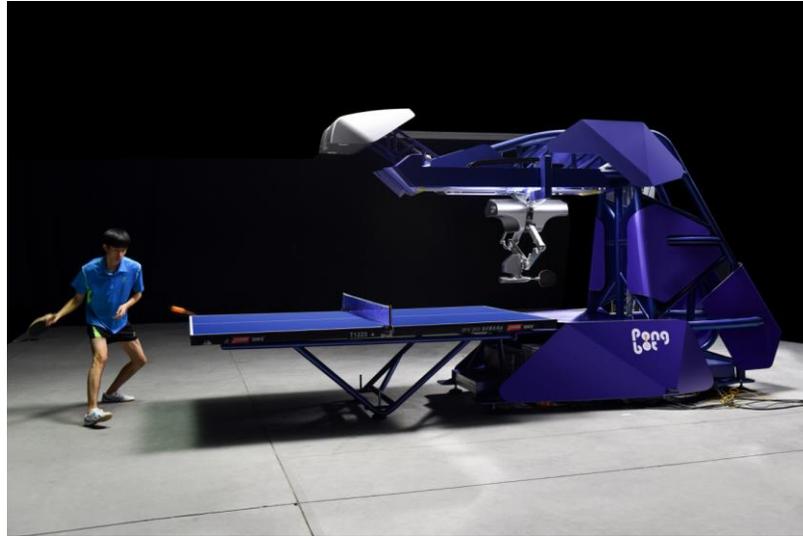




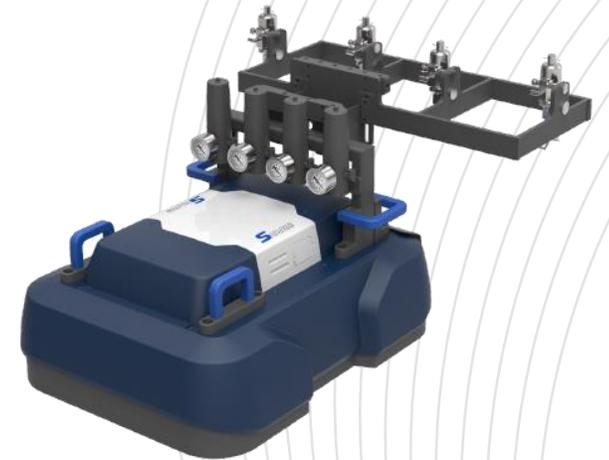
1.Intelligent Robot



**Solar Panel
Cleaning Robot**



**Ping-Pong Robot
Pongbot**



**Wall-climbing
Robot**



2.Intelligent Manufacturing

Industry 4.0 system solutions application



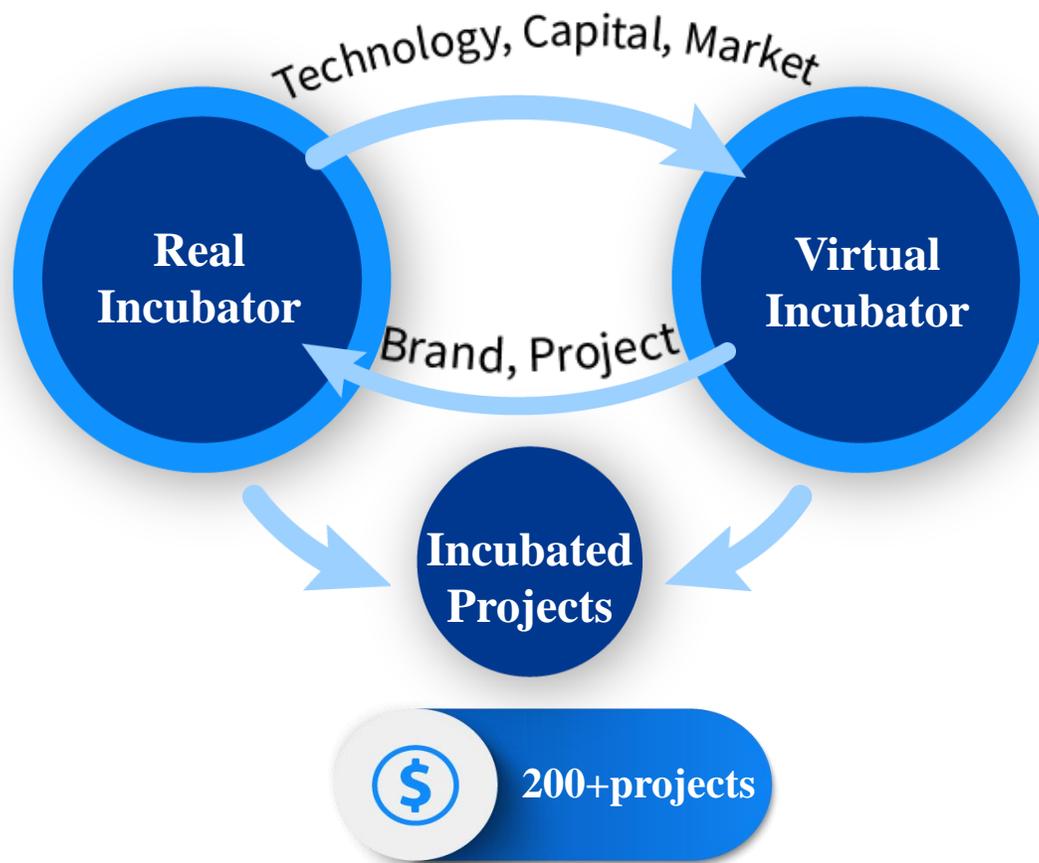
Digital Factory

- Robot Application System
- Assembly & Test Automation
- Intelligent Logistics System
- AGV System
- MES
(Manufacturing Execution System)



3.Creative & Investment

Creatineer®Maker Space



Creatineer®Competition 2015-2018



industrial robots, service robots,
robot parts, intelligent household,
wearable devices, AI, VR, AR

CORPORATE
VISION

To Create an International, Innovative and platform-based

Leading Robot Kingdom

SIASUN

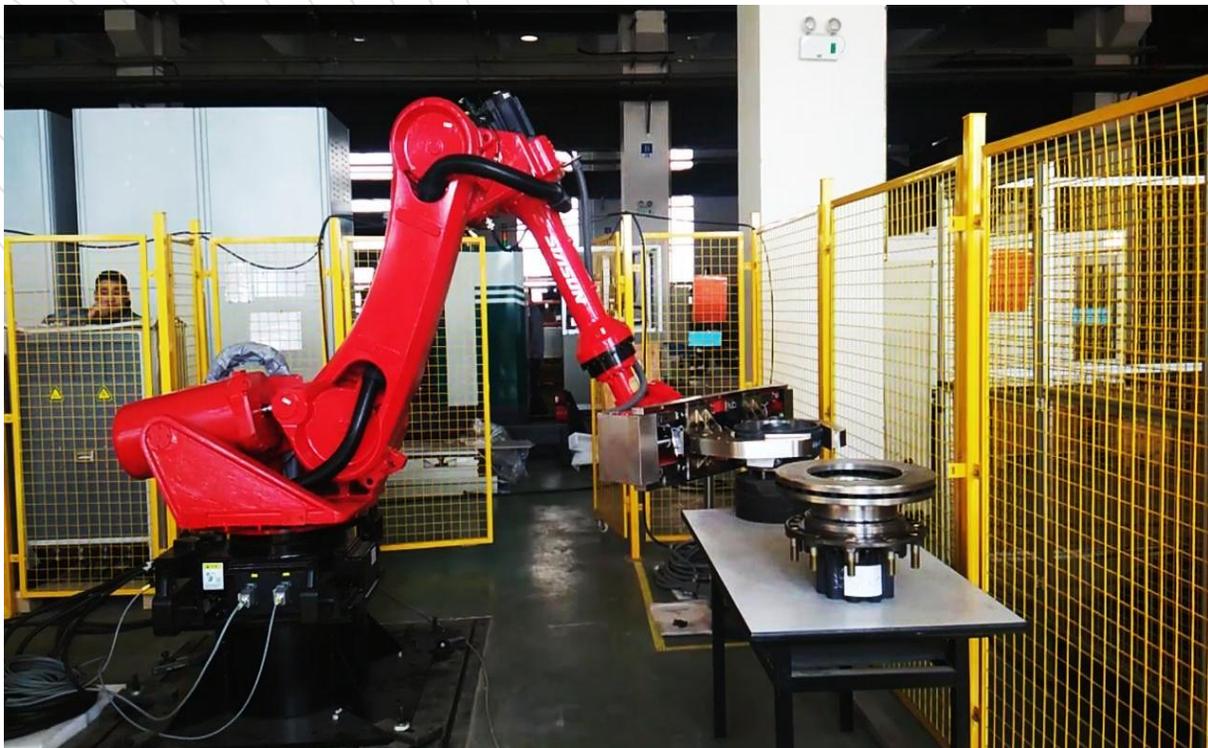
02

Collaborative Robot





Coexist & Collaborate



Massive Production

Various-type, customized production

COBOT

(Collaborative Robot)

Robot designed for direct interaction with
a human within a defined *collaborative workspace*.

ISO 10218

SIASUN Cobot

first launched in 2015



The first domestic Collaborative Robot exhibited
at China International Industry Exhibition 2015



SIASUN Cobot Family



SCR5



SCR3

S series

H series



HSCR5



HCR20

G series

D series



GCR20
-1100



GCR14
-1400



GCR11
-1300



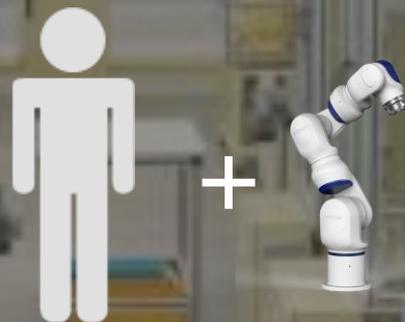
GCR5
-910



DSCR3



DSCR5



Production Cost



Production Efficiency

Easy-to-use

- ✓ **Traction Demonstration, Easy Programming**
- ✓ **TCP/IP, Modbus communication protocol**
support communication protocol expansion such as
Profinet, CC-Link, etc.
- ✓ **Friendly User Interface**
- ✓ **Multi-interfaces with error-proof**



Economic Efficient

- ✓ **Space-saving,**
fewer changes to production layout

Base radius $\phi 79-126\text{mm}$

- ✓ Set-up within
3 min



- ✓ Low Energy consumption
(200W-600W)

1/4 ~ 1/6 of industrial robot's consumption

- ✓ **Cost-effective**

Powerful Functions

- ✓ 3-20kg Payload, Weight/Payload Rate 2.5:1
- ✓ Modular accessories, Easier to Change
- ✓ Applicable in multi-industry for various scenarios

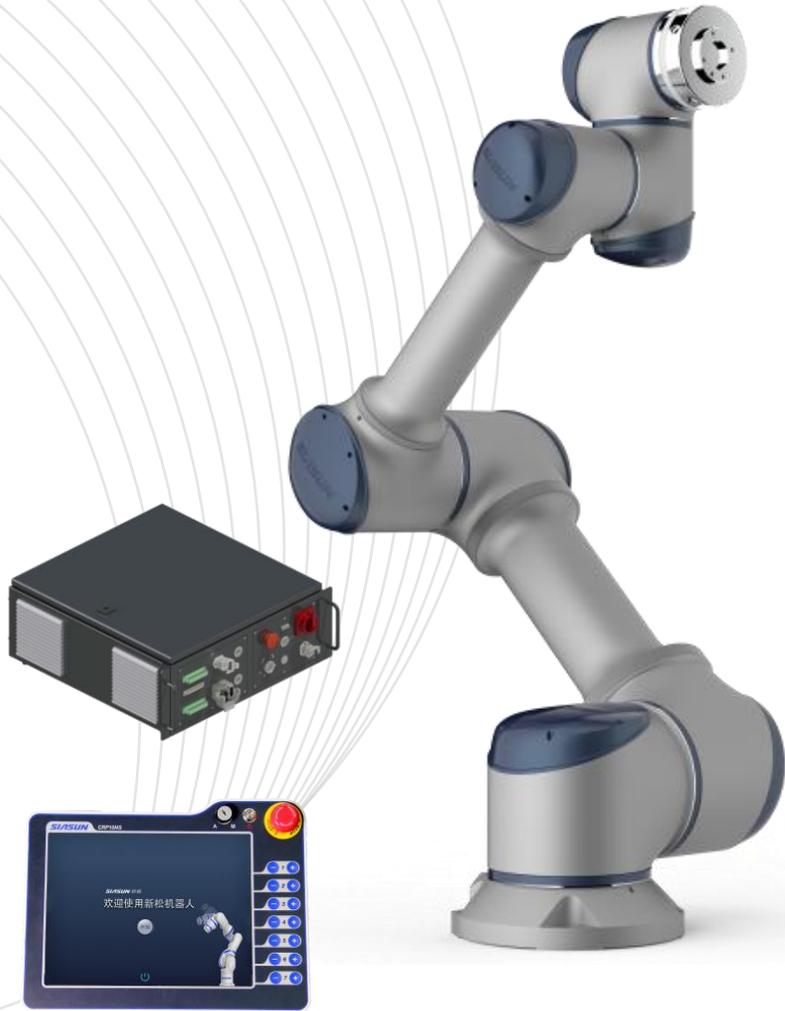
SCR Series



Type	SCR5
Payload	5kg
Repeatability	±0.02mm
Reach	800mm
Weight	33.8kg
TCP Max Speed	1m/s
IP Class	IP54
Power Consumption	400W



GCR20-1100 Cobot (High Payload)



Payload	20kg
Axis	6
TCP Max Speed	1 m/s
Weight	50kg
Reach	1100mm
Repeatability	±0.05mm (GB/T 12642-2013 eqv ISO 9283)
Tool Interface	GB/T 14468.1-50-4-M6 (eqv ISO 9409-1)
I/O	Control Box: 14 Dig I/O, 24V, 0.5A End Joint: 2 Dig I/O, 24V, 1A
Communication Protocol	TCP/IP, MODBUS/TCP, etc.
Power Consumption	600W
Base Radius	126mm
Ambient Temperature Range	0°C - 45°C
IP Class	IP54



GCR14-1400 Cobot(Long Reach)



Payload	14kg
Axis	6
TCP Max Speed	1 m/s
Weight	53kg
Reach	1400mm
Repeatability	±0.05mm (GB/T 12642-2013 eqv ISO 9283)
Tool Interface	GB/T 14468.1-50-4-M6 (eqv ISO 9409-1)
I/O	Control Box: 14 Dig I/O, 24V, 0.5A End Joint: 2 Dig I/O, 24V, 1A
Communication Protocol	TCP/IP, MODBUS/TCP, etc.
Power Consumption	600W
Base Radius	126mm
Ambient Temperature Range	0°C - 45°C
IP Class	IP54

The First one in the industry to make

“Hybrid Cobot”





HCR20



Vehicle Size	1280x600x700mm	Operating Accuracy	±0.05mm
Gross Weight	550kg	Parking Accuracy	±10mm
Speed	Cobot TCP Speed	Moving Direction	Forward/Reverse/ Turning
	Moving Speed	Navigation	Natural/Laser/ Multi-Type Navigation
Payload	Cobot Payload	Battery	Lithium Battery, 48V DC
	Vehicle Payload	Full Load Duration	≥5 Hours
Safety Device	Emergency Button/ Laser Collision Detection /Cobot Collision Detection/ Other Sensors...	Charging	Manual/ Auto Battery Change, Auto-Charge

HCR20

Antic-static ESD

High Accuracy Visual Solution

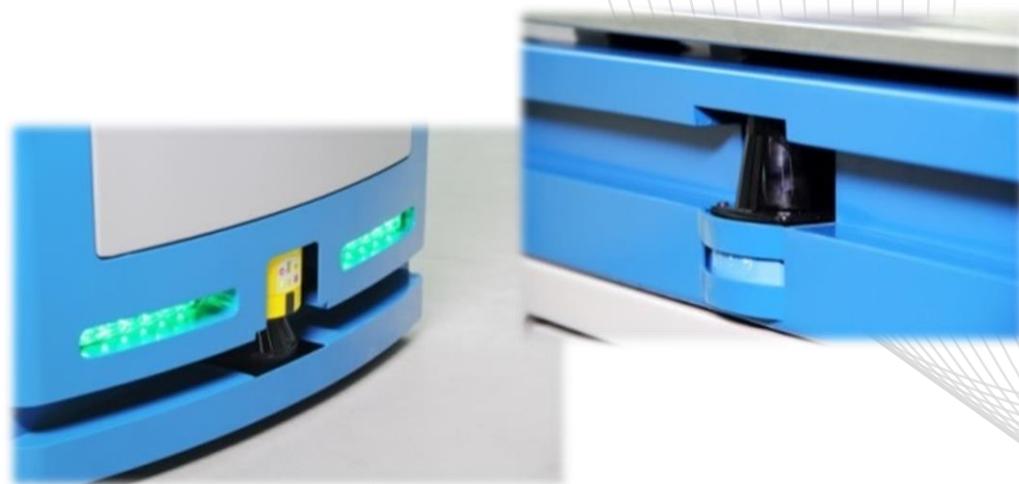
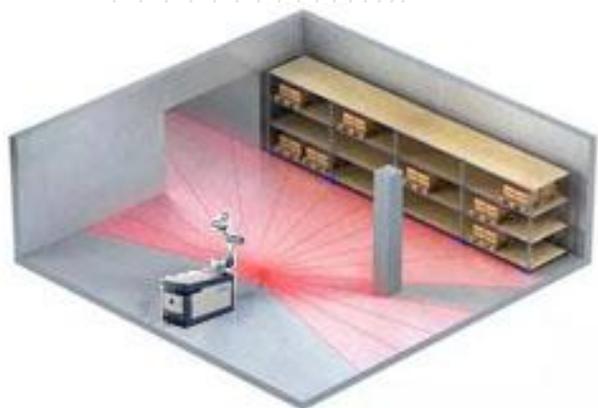
Safety Interlock between Cobot & Vehicle

Natural Navigation

Emergency Stop Protection

Air Compressor Integrated

360° Obstacle Avoidance





HSCR5



Application

Auto manufactory
Storage sorting

Features

1. High safety
2. Convenient maintenance
3. Various navigation settings
 - ✓ Laser guide
 - ✓ Magnetic trace
4. Various accessories
 - ✓ Electric drive/ pneumatic gripper
 - ✓ Visual

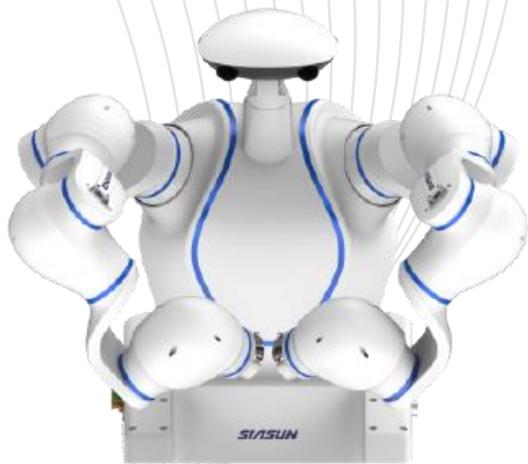
SIASUN

DSCR5
Dual-Arm Robot





DSCR Series



DSCR3	Type	DSCR5
Each arm 7 x 2 Head is optional	Axis	Each arm 7 x 2 Head is optional
6kg (3kg*2)	Payload	10kg (5kg*2)
± 0.02mm	Repeatability	±0.02mm
600mm	Reach	800mm
IP30	IP Class	IP30
35000h	TCP Max Speed	35000h



Hot Spots



Dual-arm Cobot showed in the first domestic AI science program on CCTV-1



SIASUN Cobot showed in CCTV documentary "Super Engineering Season III"



Cobot+ Exploration



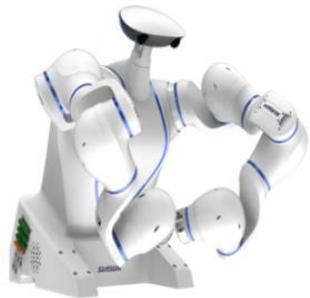
SIASUN Cobot with AR exhibited at the 2017 World Robot Conference

03

Application
& Service

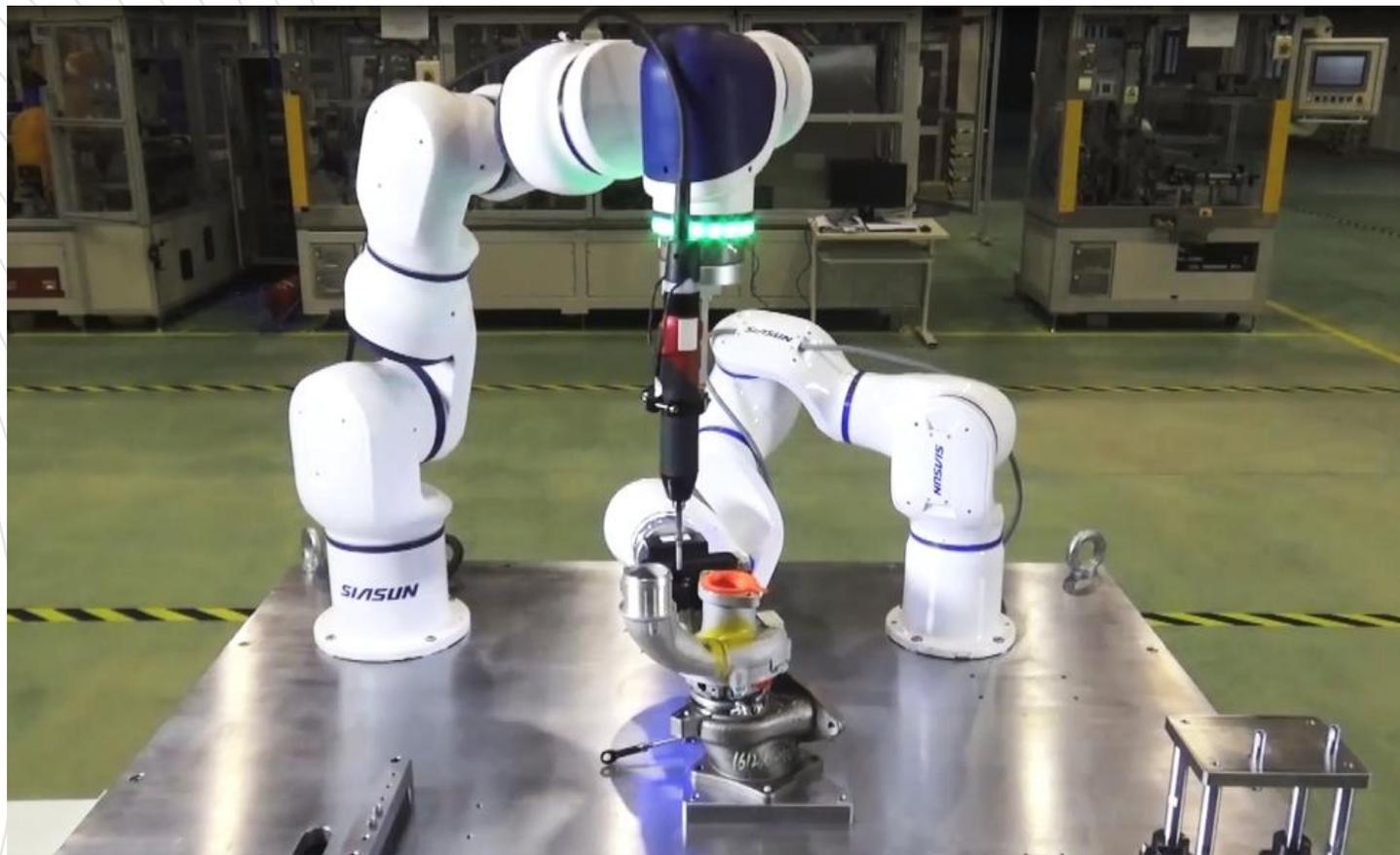


Typical Applications

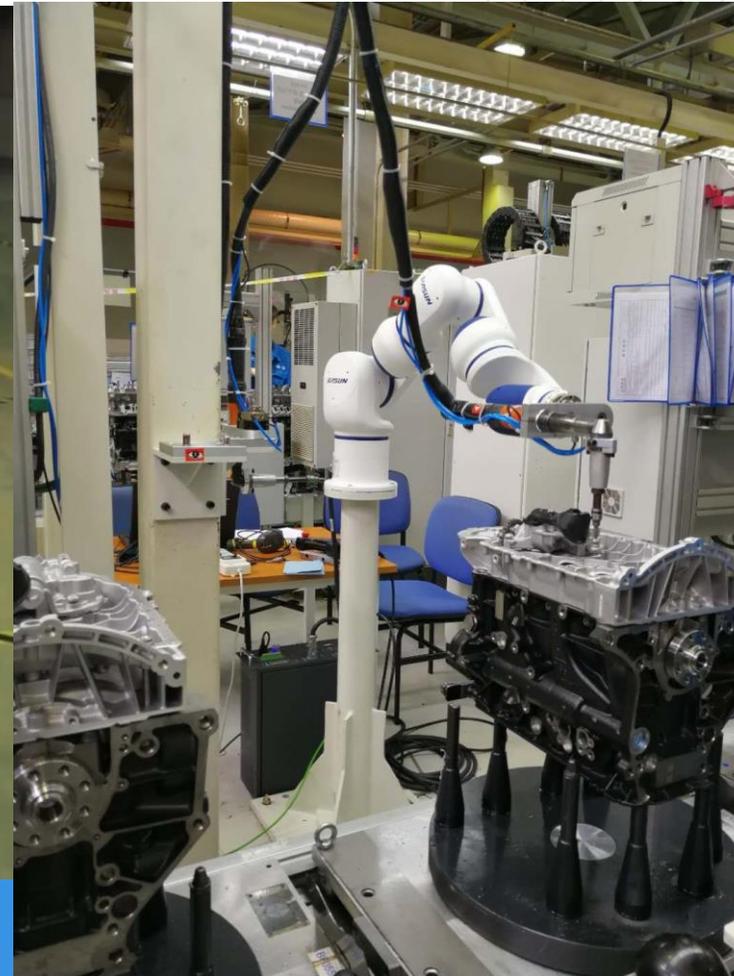




Screw Driving

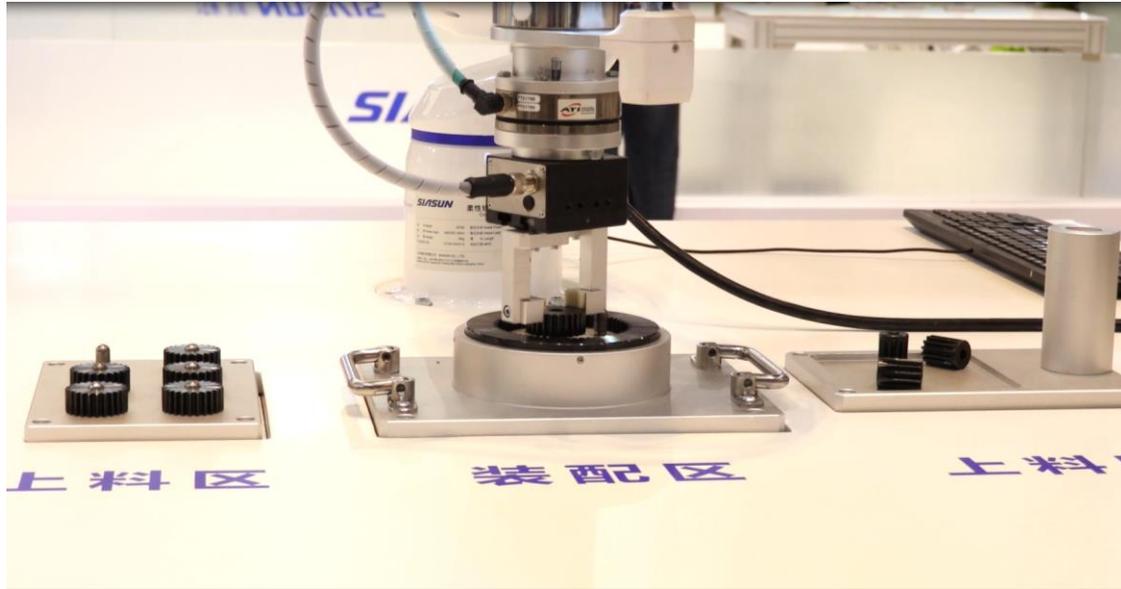


Screw Driving

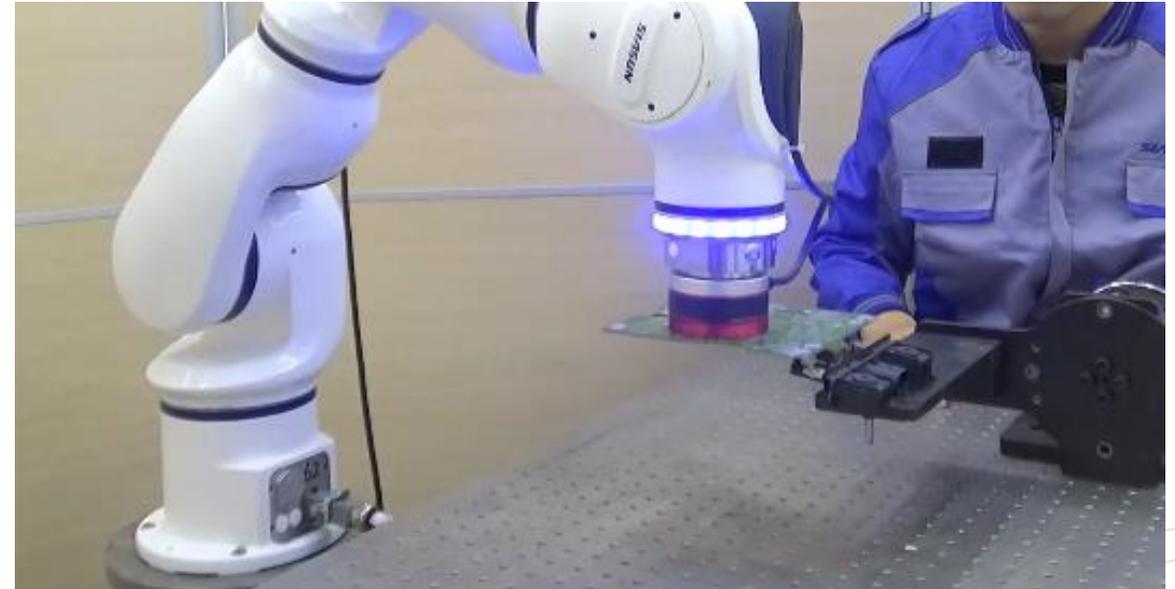




Precision Assembly



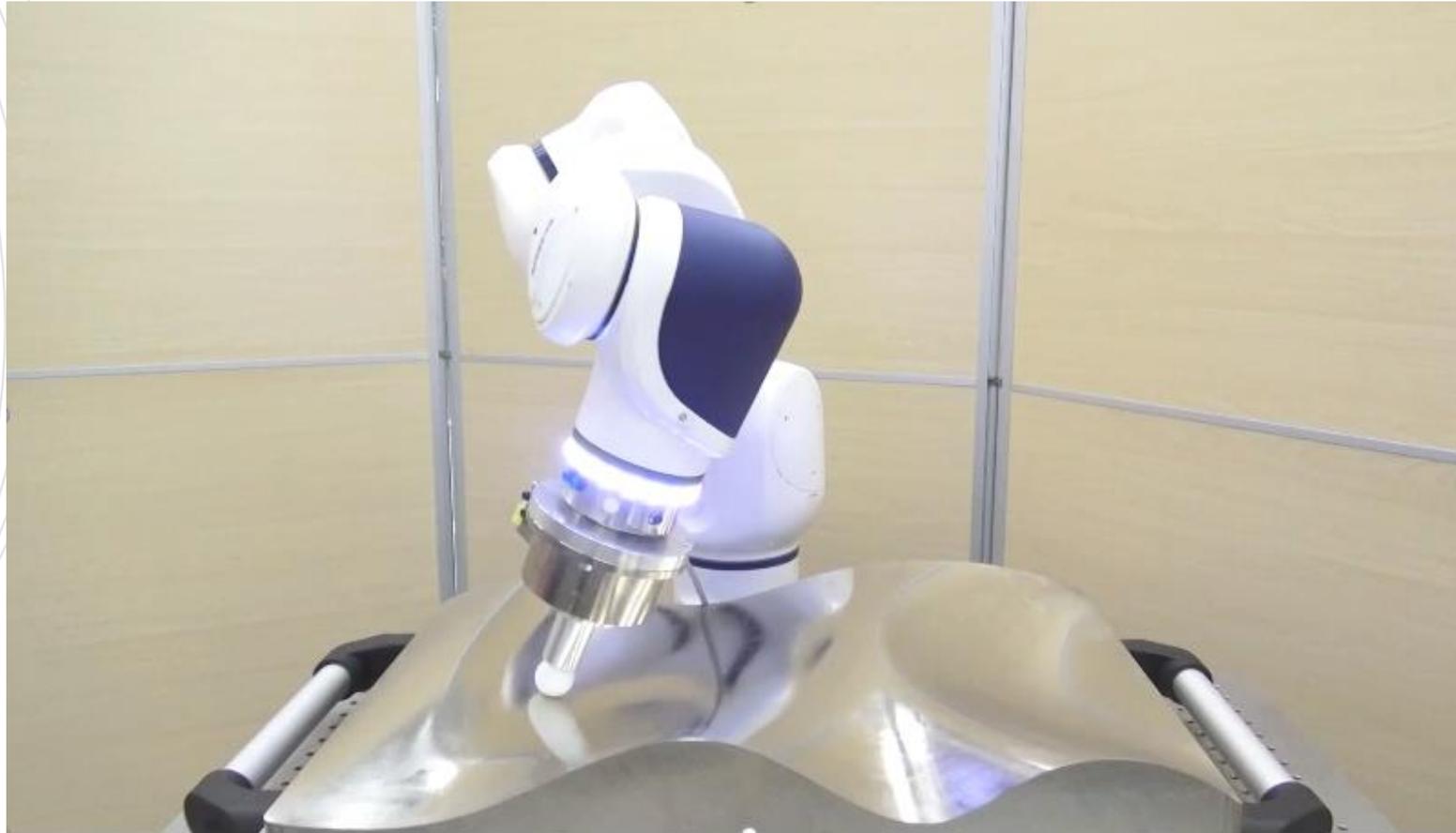
Planet Gear Assembly



Precise Force for PCB Jack



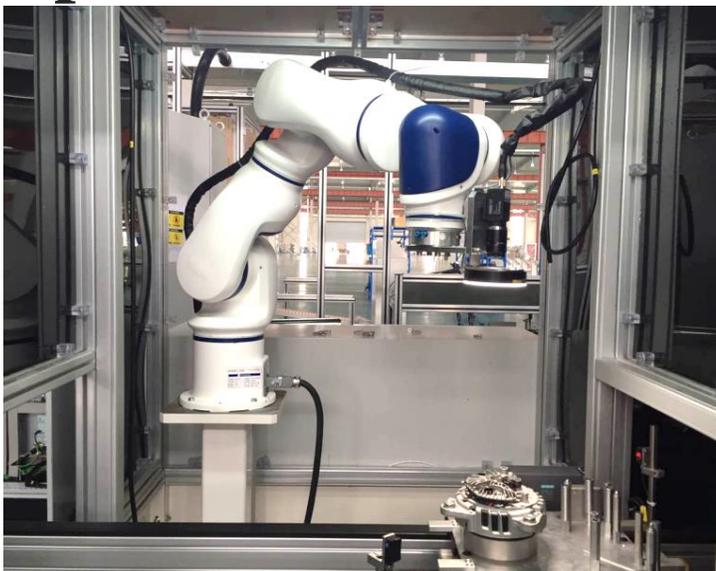
Curved Surface Polishing



Cobot + Force Sensor: Vertical Curve Technique



Quality Inspection



Visual inspection for motors



Automobile chair visual inspection



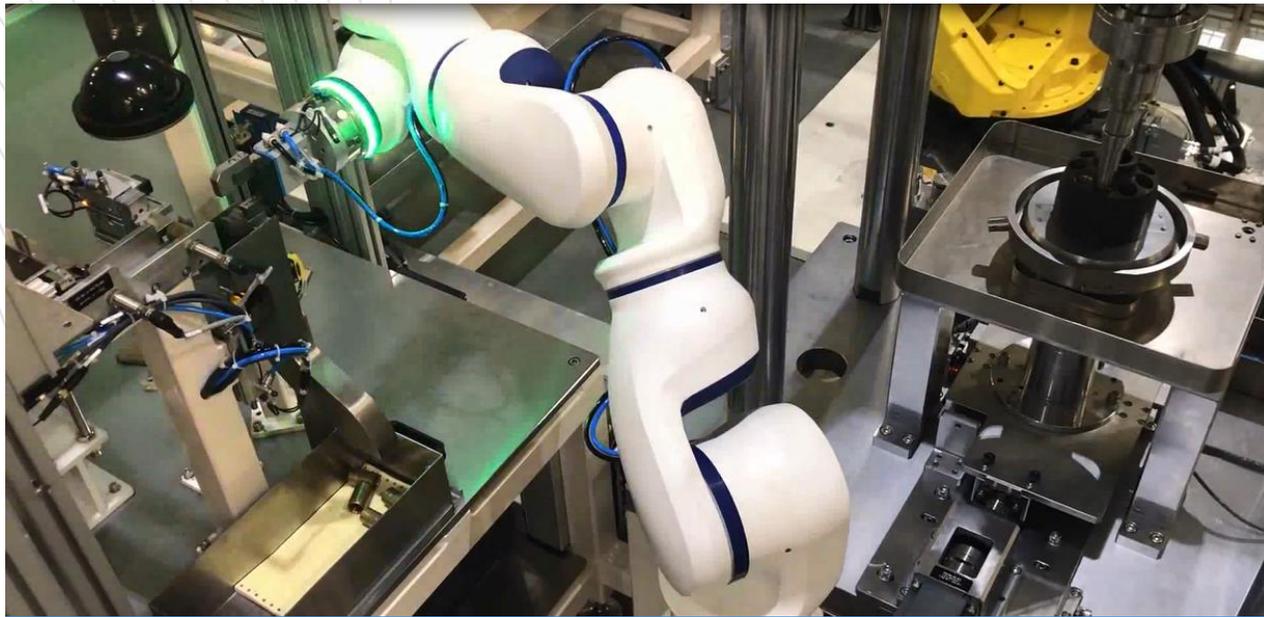
PCB board pin inspection



Code scan for TV



Intelligent Sorting & Loading



2D/3D Vision System Loading & Sorting



Intelligent Sorting & Loading



GCR20-1100 2D Vision System+Loading



Pick and Place & Pallatizing



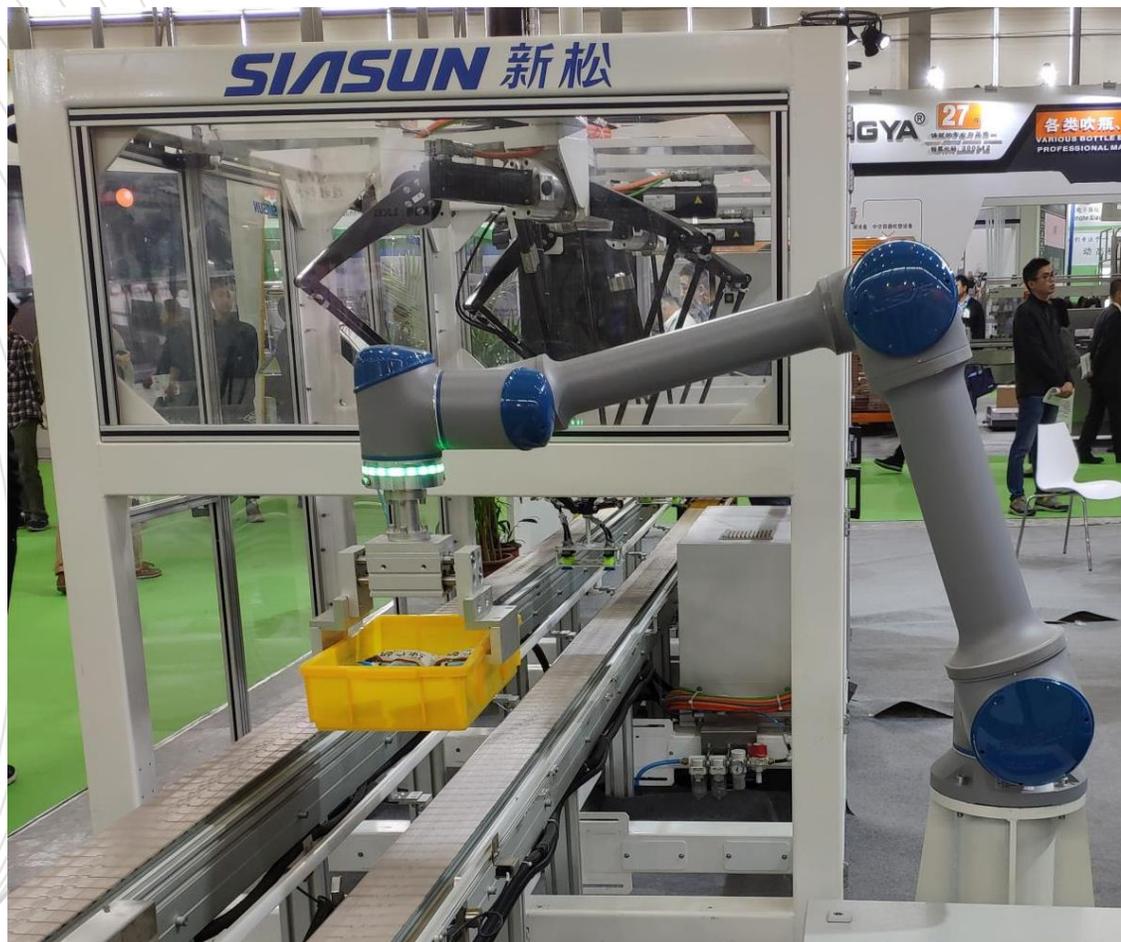
Picking&Placing in narrow space



With Flexible Gripper



Pick and Place & Pallatizing



GCR14-1400 long reach application



Gelatinizing & Greasing



Gelatinizing & Greasing



Gelatinizing & Greasing



DSCR5 Gelatinizing



Medical Industry



Cobot Ecology





Cobot Ecology



• **Sensor**



• **Gripper**



• **Quick-change**



• **Screwing System**



• **Camera**



• **Safety scanner**





Cobot Ecology Partners



**Electric Grippers
Quick-change**



Gas Grippers

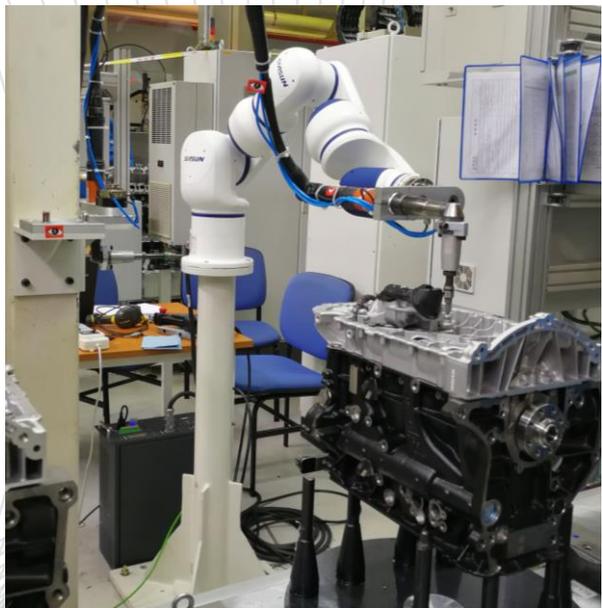


Vacuum chuck





Cobot Ecology Partners



Visual



3D Visual



Screwing System





Cobot Ecology Partners



Force Sensor



Safety Scanner



**Communication
Expansion**



Type: ABX_ETNM_2P(PROFINET)



Type: MGgate5111(PROFIBUS)

More...



SIASUN Service





How we serve clients

Pre-sales



- **New products launch according to client needs**
- **Application evaluation**
- **Process validation**
- **Accessories recommendation**
- **Entry level training**

On-purchase



- **Date of delivery coordination**
- **Systematic Training**

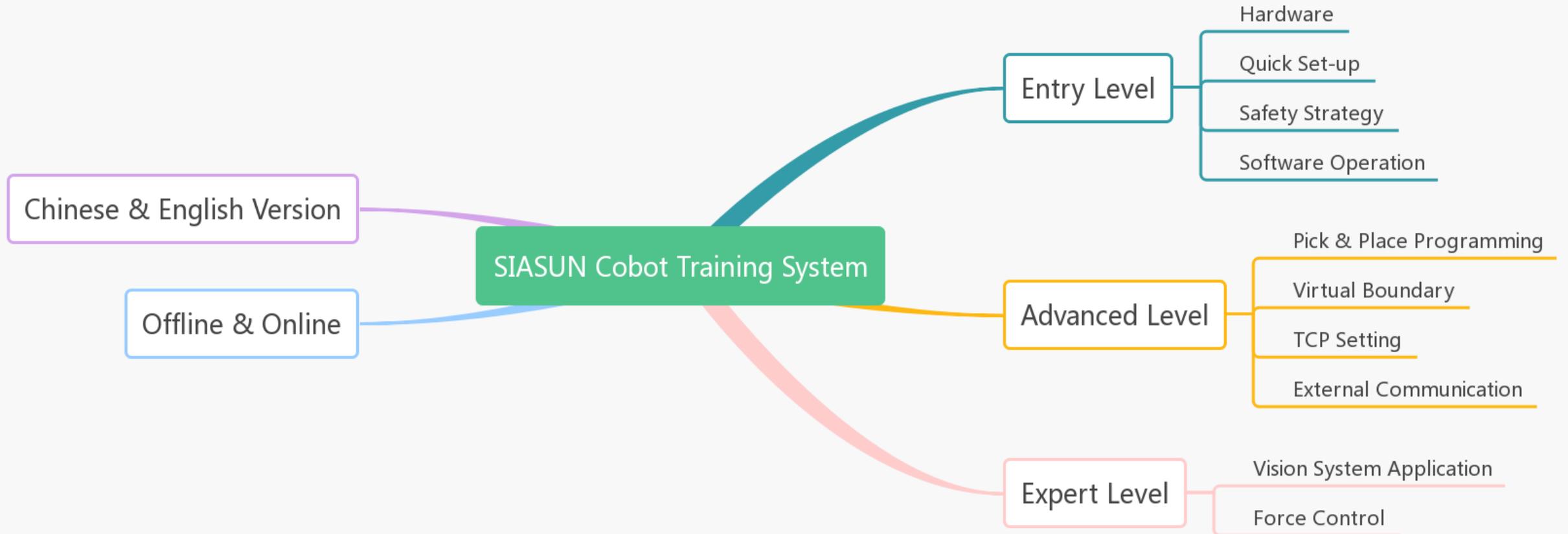
After sale



- **Systematic Training**
- **Technique support**
- **Spare parts & components**

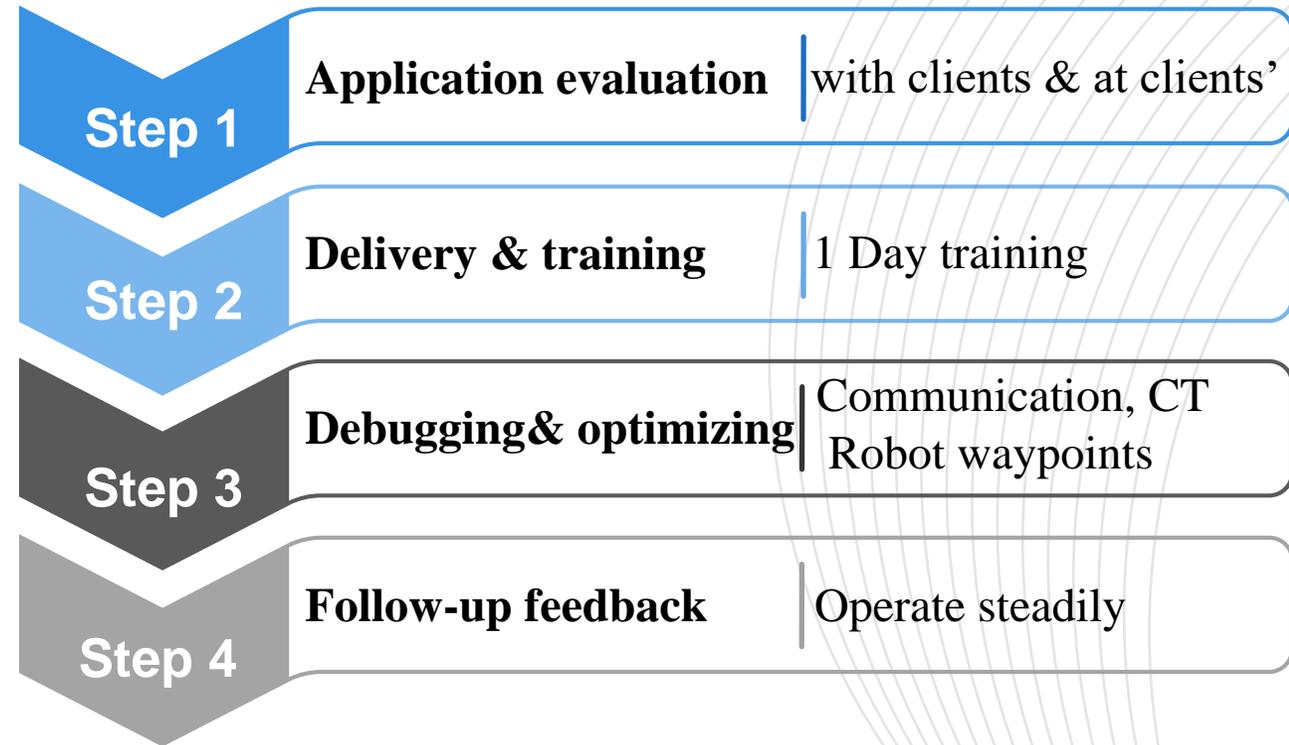


Complete Training System





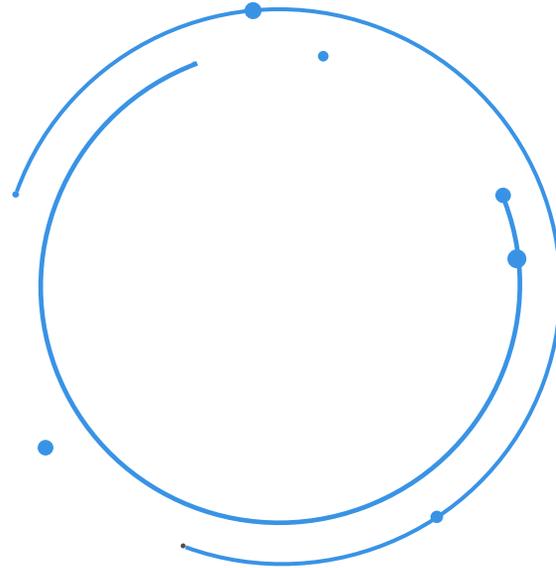
Typical Project Introduction



Successfully implemented in 2 weeks

Create for More
Collaborate for Better

THANKS



SIASUN 新松
SIASUN Co., Ltd.
Intelligent Robot BG

Add : Robot Hub,
No.257 Jinzang Rd,Pudong, Shanghai

