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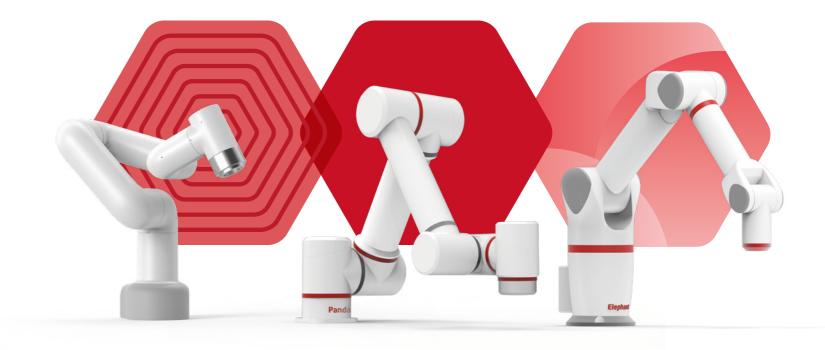
Enjoy Robots World.



CATALOG

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About Us





Elephant Robotics is a technology firm set foot in Shenzhen China, specializing in the design, development, and production of robotics and automation solutions.

We are committed to providing highly flexible collaborative robots, better operating system "RoboFlow" and customized intelligent automation solutions for industrial manufacturing, commercial purpose, robotics education, and scientific research.

Elephant Robotics is on mission to "Enjoy Robots World", advocating the collaboration in human and robot. With the assistance of robots, we will be able to create a better future!

Family of Elephant Robotics

Main Features



Elephant 5

A Brand-Step for Industries

- Durable
- Precise
- Innovative

For high-precision and high quality industrial application

Panda 3/5

Versatile Assistant, Safe Helper

- Universal
- Agile
- Cost Effective

For comprehensive industrial application and commercial scenario



Catbot

Small Body, Big Dream

- All-in-One
- Voice Control
- Cloud Programming

For commercial purpose and scientific research

Collaborative and Safe

Based on the efficient and exact collision detection algorithm, products of Elephant Robotics can stop immediately when the slight collision is perceived. No need to install a protective barrier. Safety of personnel is guaranteed. Customized protection units are also accepted, such as Lidar, Light Curtains, etc.

Easy Programming and Universal

Products of Elephant Robotics are using the same operating system "RoboFlow" developed by ourselves, which is universal and easy to operate smoothly. What's more, the interface is simple and clear. Even a novice can quickly learn how to program. It also supports custom programming and secondary development.

Modular Design and Flexible

Adopted with modular design with few spare parts and low maintenance cost. Our robot is lightweight, space-saving, and easy to re-deploy to multiple applications without changing your production layout. You can quickly replace its end effector according to work requirements.







Applications in Industries

Elephant and Panda series robots provide high flexibility automation solutions to industries. They can be applied to various automation processes, helping industries to improve their productivity, quality and safety level.



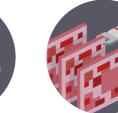
Pick and Place



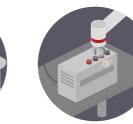
Handling

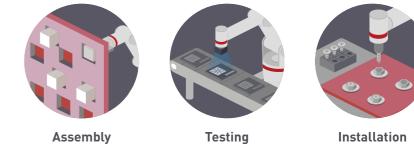


Packaging



Randomly Picking





Control

Widely Applied in Industries

Make sustainable manufacturing much safer, quicker, and more efficient.



Pick and Place



Pick and Place



Handling



Handling

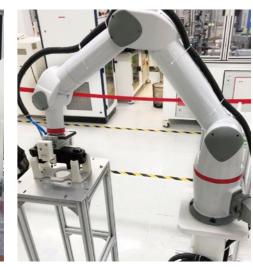
Assembly



Assembly







Testing

Applications in Commerce and Education

Elephant Robotics is committed to bring robots to everyone, our robots are popular in commerce and education, especially the latest Catbot, which is designed for commercial purpose and scientific research. Perfect assistant in various situations, helps your business and research perform efficiently!

• Smart Barista to Enlarge Your Business



• Perfect helper in Photographic Studio



• Your Personal Senior Massagist



• Creative Painter to Surprise You







More applications could be customized

your innovation!

according to





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• Great Demo in Study



• Public Spotlight







A Brand-Step for Industries

Panda 3/5

Versatile Assistant, Safe Helper

- Durable
- Precise
- Innovative

For high-precision and high quality industrial application

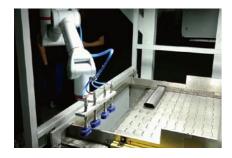
Elephant 5 features a payload of 5kg, a working radius of 810mm and repeatability of \pm 0.05mm, it is a perfect robotic assistant for industrial manufacturing.With high precision and high flexibility, Elephant 5 can do some delicate work conveniently. What's more, Elephant 5 has a certain degree of rigidity because of its unique symmetrical structure. It can even complete the work done by some traditional industrial robots.



Payload: 5KG Working Radius: 810mm Position Repeatability: ±0.05mm

Durable and Precise

High performance components installed





Unique structure-symmetrical on both sides

Innovative

Innovative design, independent R&D

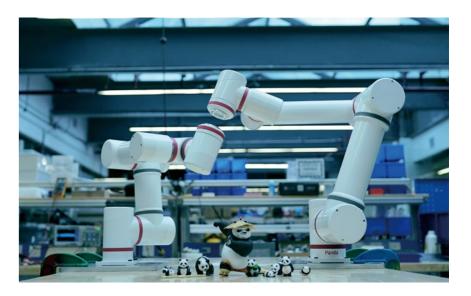




Universal

- Agile
- Cost Effective

For comprehensive industrial application and commercial scenario The Panda series is the universal 6-axis collaborative robot developed by Elephant Robotics. It comes with a strong versatility, collaboratively and openness. It features two models with payloads of 3kg and 5kg, respectively. The Panda series is designed to cater to the automation needs of different industries and scenarios.



Payload: 3/5KG Working Radius: 550mm/850mm Position Repeatability: ±0.05mm

Universal

Wide range of applications, can easily meet the automation requirements





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09

More Agile

±360° working range



Ingenious structure design,

Cost Effective High performance with competitive price



Catbot

Small Body, Big Dream.

- All-in-One
- Voice Control
- Cloud Programming

For commercial purpose and scientific research

Catbot is the latest All-in-one 6-axis collaborative robot from Elephant Robotics, aiming for the perfect assistant in commercial scenarios and scientific research. The Catbot integrates the cabinet controller and the robotic arm successfully tackles the problem of oversize cabinet controller for the very first time. With a modular and compact body, as well as a limited number of components, Catbot can save you tons on maintenance costs. This versatile robotic arm features a store with up to 20 hands-on robotic skills, it also supports custom programming and secondary development.



Payload: 3KG Working Radius: 600mm Position Repeatability: ±0.05mm, ±0.2mm(lite)

All in One

Integrates the control cabinet into the robot arm body, only weight 18kg, more portable









Products Series





Durable and Precise: High performance components installed

Stable and Rigid: Innovative structuresymmetrical on both sides

Payload: 5kg Working Radius:810mm Position Repeatability: ±0.05mm



Universal: Wide range of applications, can easily meet the automation requirements

More Agile: Ingenious structure design, ±360°working range

Cost Effective: High performance with competitive price

Payload: 3/5kg Working Radius: 550mm/850mm Position Repeatability: ±0.05mm

All in One: Integrates the control cabinet into the robot arm body, only weight 18kg in total, more portable.

Voice Interaction: Voice control and programming, much more convenient

Cloud Programming: Allows anyone to program by using a terminal device or computer and easy to share

Payload: 3kg Working Radius: 600mm Position Repeatability: ±0.05, ±0.2mm(lite)

Voice Interaction

Voice control, much more convenient

Cloud Programming

Allows anyone to program by using a terminal device (eg.computer,pad,phone)

Elephant Robotics

Overview of Elephant Robotics' Family

Recommended Fields

3C electronics, auto parts assembly, injection molding, metal processing, pharmaceutical and chemical industry

3C electronics, metal processing, scientific research, medical, auto industry and other industries

Commercial scenario, scientific research, education scenario, medical scenario, showing case scenario etc.



Specifications

Robot Version	Elephant 5	Panda 3	Panda 5	Catbot 3	
Payload	5kg	3kg	5kg	3kg	
Working radius	810mm	550mm	850mm	600mm	
Degrees of freedom	6	6		6	
Working range			J1: ±360°		
	J1/J4/J6:±180°	±360°		J2: ±180°	
				J3: ±165°	
	J2/J3/J5:±120°			J4/J5/J6: ±360°	
Axis maximum speed	225°/sec	J1/J2/J3: 180°/sec	J1/J2/J3: 150°/sec	J1/J2/J3: 180°/sec	
		J4/J5/J6: 208°/sec		J4/J5/J6: 225°/sec	
Tool speed	1m/sec	1m/sec		1m/sec	
Weight	23kg	17kg	24.5kg	18kg	
Position repeatability		±0.05mm			
Dimensions robot base	Ф180mm 123mm×123mm			Ф150mm	
Programming mode	Graphical programming			·	
IP classification	IP42	IF	254	IP42	
Typical power consumption	260W	160W	260W	180W	
Materials	Aluminium alloy, ABS, Rubber	Aluminium alloy, Rubber		Aluminium alloy, PC, Rubber	
Operating temperature range		(I-50℃	'	
Collaboration operation	Test in accordance with: EN ISO 13849-1 PL d EN ISO 10218-1: 2011-Clause 5.4.3				
Noise	<70dB				
Robot mounting		Anya			
Relative humidity		5%-	95%		
Interface and openness				SDK(Python, C++, Java), API, ROS	
I/O ports				Digital Input:12	
		Digital Ouput:8			
Tool I/O ports	See "Controller for Elephant & Panda Series"			Digital Input:3	
				Digital Ouput:3	
I/O power supply				24V 2A	
Communication				TCP/IP	
Power supply				DC 48V, 10.5A	
				DC 24V, 4.5A	

Controller for Elephant & Panda Seri			
	Size (L×W×H)	545mm×285mm×433mm	
	Weight	25kg	
	Power supply	AC 110-240V, 50-60Hz	
	IP classification	IP40	
	Certificate	CE certificate	
	Interface and openness	SDK(Python, C++,Java),AP	
	I/O ports	Digital Input: 16 Digital Ouput: 16	
	I/O power supply	24V 2A	
	Communication	TCP/IP	

Teach Pendant for Elephant & Panda Serie		
Size (L×W×H)	255mm×230mm×	
Weight	1.8kg	
Screen resolution	1024×768	
IP classification	IP20	
Screen size	10.4"	

	Power box		
Size (L×W×H)	297mm×200mm×		
Weight	6kg		
Power supply	AC 110/220V, 50		
IP Rate	IP20		





API,ROS



(Optional for Catbot)

×90mm



×128mm

50Hz

Operating System RoboFlow

The RoboFlow is the main operating system for human-robot interaction. It comes with a user-friendly operation interface, offers functional modules for driving various smart devices and vision systems, and different educational standards. The user-centric software design makes operation training simpler and smoother in robot manipulation.

Program Widget

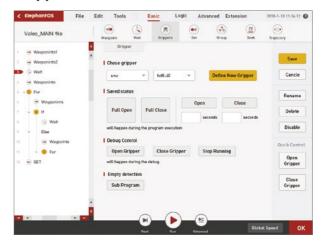
Basic	Waypoint	Gripper	Wait	Set	Group	Trajectory
Logic	Loop	lf/else	Subprogram	Thread	Halt	Switch
Advanced	[x,y] Variables	Script Code	Popup	Pattern		
Extention	Voice Prompt	Vision	Radar	Add More		

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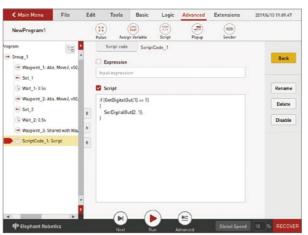
Main Features

- Adaptive to all visual programming systems for products of Elephant Robotics
- Simple and clear interface, easy and smooth programming experience
- Supports various function modules, processing package is constantly updated
- API can be integrated with any programming language, the SDK includes 3 versions, Python, C++ and Java. - Supports offline programming and extension on ROS
- Basic algorithms: self research and development, has technical superiority

Gripper Function



Script Code Function

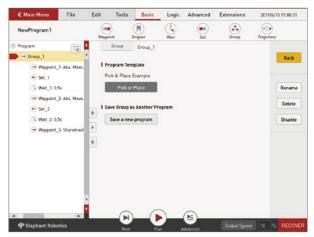


Elephant Robotics



Group Function

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End Effector

Products of Elephant Robotics are compatible with different end-effectors and also support third-party extensions, which makes them a flexible mobile automation unit to complete more tasks and increase productivity.





Suction cup

Magnetic Gripper



Polishing Head



Electric Screwdriver





Long Range Adaptive Gripper

(17)



Short Range Adaptive Gripper



Elephant Robotics offers comprehensive solutions for industries and commerce. By developing fast-to-deploy collaborative robots and comprehensive solutions, we can help our customers to achieve automation in a timely and cost-cutting manner.



Food and Consumer Goods

Elephant Robotics can help your enterprise increase efficiency. With the help of our robots, your staff can do more creative work instead of doing repetitive and boring work.



Medical Instrument

Elephant Robotics provides perfect solutions for the pharmaceutical and chemical industry since our robots can perform a variety of tasks.

Education and

Scientific Research

theory and practice in perfection. Our robot can be your intelligent robotic assistant and help you work efficiently.

Outstanding Clients











迪卡侬



3C Electronics

Products of Elephant Robotics are flexible and agile. They can help 3C industry upgrade their production line in an all-round way.



Small Business

Elephant Robotics provides customized solutions for small business in various conditions. With the help of our robots, you can enlarge your business in a fantastic way.





Auto Parts Assembly

Elephant Robotics can upgrade your production line with flexibility and safety, reducing production time and creating industry advantages for you.



Machining

Elephant Robotics can help your industry maintain a high level of quality by improving the accuracy of tools and components. The production line will be more productive with the automatic upgrade.



Household Appliances

Elephant robotics can make you a quality life by helping you free from daily housework and even doing massage for you for instance.





Elephant Robotics helps you combine









