

Experience the Future of Flexibility and Precision

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Full-joint force control, ultra-sensitive
for smooth and seamless operation

Industrial-grade performance,high speed
and precision for cost efficiency

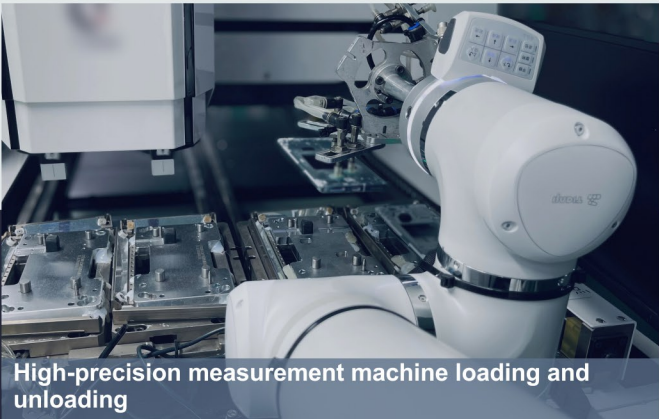
User-friendly, zero barriers for quick
and easy setup

In today's rapidly changing landscape, the Delight six-axis collaborative robot brings intelligence and adaptability to your production line. With its safe interaction design and efficient adaptability, Delight seamlessly integrates into various work environments, collaborating effortlessly with your team to achieve both efficiency and safety. Choose Delight, and make every collaboration simpler and more efficient.



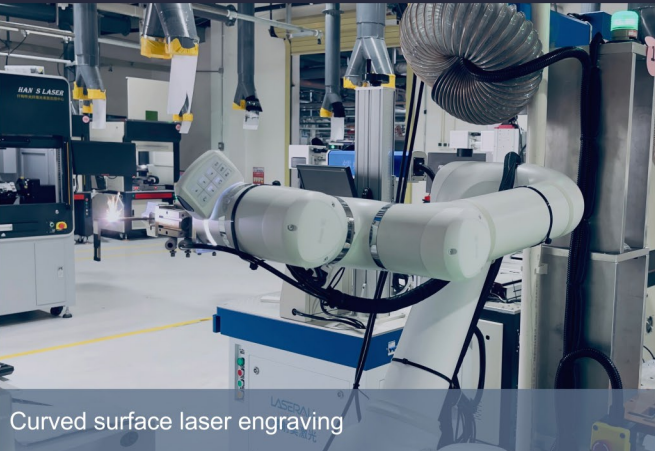
Multi-point CCD size measurement

Industry:3C



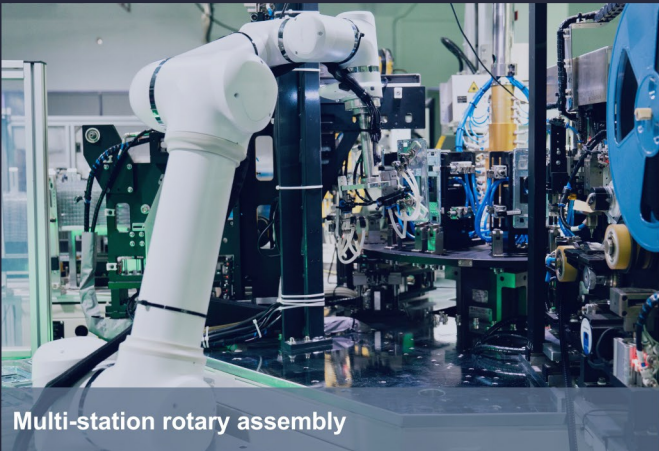
High-precision measurement machine loading and unloading

Industry:3C



Curved surface laser engraving

Industry:3C



Multi-station rotary assembly

Industry:Automotive Components

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DELIGHT SERIES

Intelligent force-controlled collaborative robot



Repeatability Precision
 $\pm 0.02/\pm 0.03\text{mm}$



Maximum Payload
7/12kg



Working Range
949/1410mm



Protection Level
IP67

GUANGDONG TIANJI INTELLIGENT SYSTEM CO.,LTD.

Product features



DELIGHT
SERIES

Intelligent Interaction

+ **Precision Perception, Ultimate Safety:** Equipped with high-precision joint torque sensors, Delight achieves highly sensitive force perception and torque control, showcasing exceptional safety and responsiveness in both contact and non-contact operations, allowing you to operate without worries.

Flexible Deployment

+ **Adapting to Needs, Multi-Scene Applications:** With features like safe collision detection, impedance control, drag teaching, and graphical programming, Delight can be rapidly deployed and easily adapts to various applications—from assembly lines to laboratories—making it a valuable assistant in enhancing production efficiency and helping you stay competitive in a changing landscape.

Outstanding Performance

+ **Industrial-Grade Excellence, Beyond Expectations:** Delight's industrial-grade repeatability and reliability ensure exceptional performance across various operations. Its speed outperforms competitors in the same series by 20%. With no shaking at low speeds and no vibrations at high speeds, combined with a jitter suppression algorithm, stability and precision are perfectly integrated in Delight.

Precise Force Control

+ **Gentle Operation, Safe and Reliable:** With force control precision up to 0.5N, Delight enables gentle handling in complex environments. The silicon MEMS force sensor ensures high reliability and strong overload capability, providing excellent zero-point stability and impact resistance, safeguarding delicate operations.

Delight: Where Every Operation is Safe and Efficient!

Body specification

name		Specification	
model		DL7-S	DL12-S
Working Radius		949mm	1410mm
Maximum Payload		7kg	12kg
Repeatability Precision		±0.02mm	±0.03mm
Motion range	J1	±170°	±170°
	J2	±170°	±170°
	J3	±170°	±170°
	J4	±170°	±170°
	J5	±170°	±170°
	J6	±170°	±170°
Max speed	J1	225°/s	120°/s
	J2	225°/s	150°/s
	J3	180°/s	180°/s
	J4	225°/s	180°/s
	J5	225°/s	200°/s
	J6	225°/s	225°/s
Body weight		24.2kg	35kg
Protection Level		IP67	IP67
Install method		any angle	any angle

Control cabinet parameters

Profile size (mm) :343 width×120 height ×244 depth (excluding protrusions)	Gross weight: 7.7kg	Protection grade:IP20
Position control method: absolute value coder	Accelerate and moderate control method: software servo control	
Grounding: work grounding (grounding electric resistance under 100Ω) special grounding	Input and output signal: standard configured 16DI, standard configure 16DO	
Power supply specification:single phase AC200V/230V、50/60Hz、DC48V(±5%)		
Communication joggles: Ethernet TCP/IP standard configure, EtherCAT standard configure		

Profile size and motion range (Unit:mm)

