

Product Specifications

Product Nane		Nova 2	Nova 5
Body Weight		11kg	14kg
Rated Payload		2kg	5kg
Working Radius		625mm	850mm
Max Working Speed		1.6m/s	2m/s
Range of Motion	J1	±360°	±360°
	J2	±180°	±180°
	J3	±156°	±160°
	J4	±360°	±360°
	J5	±360°	±360°
	J6	±360°	±360°
Maximum Joint Speed	J1	135°/s	100°/s
	J2	135°/s	100°/s
	J3	135°/s	100°/s
	J4	135°/s	100°/s
	J5	135°/s	100°/s
	J6	135°/s	100°/s
End I/O	DI	2 Channels	2 Channels
	DO	2 Channels	2 Channels
	RS485	Support	Support
Repeatability		±0.05mm	±0.05mm
IP Rating		IP54	IP54
Noise		65dB(A)	70dB(A)
Temperature Range		0~50°C	0~50°C
Power Consumption	Typical Value	100W	230W
	Maximum Value	250W	770W
Installation Method		Any angle	Any angle
Cable Length (Robot-to-Cabinet)		3m (118.1 in)	3m (118.1 in)
Material(s)		Aluminum Alloy, ABS Plastic	Aluminum Alloy, ABS Plastic

Product Name		DSC Control Cabinet
Dimensions		220*150*45mm
Weight		1.2kg
Input Power		30~60V DC
IO Power		24V, Max 2A, 0.5A Max per Channel
IO Interfaces	DI	16 Channels (NPN or PNP), Reusable as SI
	DO	16 Channels (NPN or PNP), Reusable as SI
	AI	2 Channels, Voltage/Currency Mode, 0~10V, 4~20mA
	AO	2 Channels, Voltage/Currency Mode, 0~10V, 4~20mA
Communication Interfaces	Ethernet port	2 for TCP/IP, Modbus TCP Communication
	USB	1 for Connecting USB Wireless Module
	485Interface	1 for RS485, Modbus RTU Communication
Environment	Temperature	0~50°C
	Humidity	≤95%, Non-condensing
Remote On/Off		Support
Protection Rating		IP20
Cooling Method		Fan Cooling
Teaching Method		PC、APP（Android、iOS）、Teach Pendant



DOBOT Nova

Designed specifically for lightweight industrial and diverse commercial applications

DOBOT Nova

The Nova Series of Collaborative Robots feature an ultra-lightweight design, are ready to use in a matter of minutes even in tight spaces, and incorporates multiple layers of security protection. It combines industrial-grade performance with ultra-low deployment cost, allowing you to recoup your investment within a few months. Supports customizable exteriors, making it easy to adapt to a wide range of applications—from lightweight industries such as 3C electronics and automotive components to diverse new business scenarios including smart dining, digital retail, and health and wellness.

Functional Advantages

Ultra-lightweight and Easy to deploy

Featuring an ultra-lightweight body design paired with a palm-sized mini control cabinet, it can operate flexibly in spaces as small as 1 square meter, seamlessly integrating into narrow production lines or retail counters without requiring any changes to the existing layout. It fully inherits the industrial-grade hardware and software platform of the CRA series, offering reduced size without compromising performance.



Multi-layered protection, safe and reliable

Utilizing electromagnetic braking technology, displacement in the event of an unexpected power outage is less than 1 mm; featuring 5-level adjustable collision detection, it comes to a rapid stop within 0.01 seconds; equipped with over 20 built-in safety features, the entire unit meets the PLd Cat. 2 certification standard, providing comprehensive human-machine collaboration safety assurance for applications such as moxibustion and massage.



Easy to learn and use, quick to replicate

Supports visual programming, making it easy for anyone to get started quickly. Combined with Yuejiang's proprietary drag-and-drop trajectory replay feature, debugging time is reduced by 80%, enabling effortless standardization and rapid replication of scenarios, and delivering a higher return on investment with lower costs.



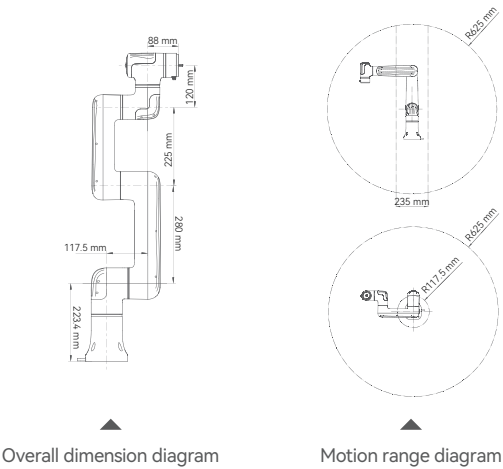
Personalized customization, brand consistency

Featuring a premium-quality body, this device supports extensive customization of its exterior colors and logo. With a wide range of color options to choose from, it seamlessly integrates into any brand's visual identity, allowing your brand's personality to shine through and making it a naturally standout partner.



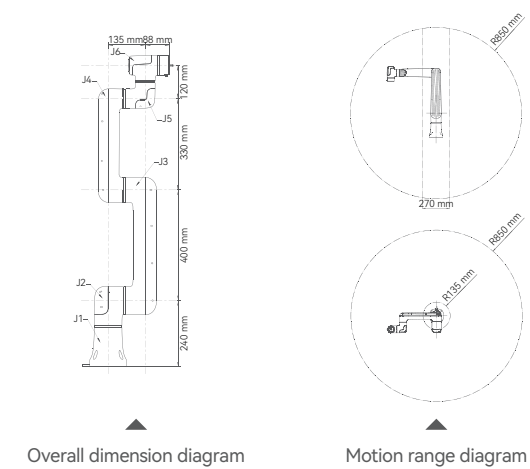
Nova 2

The Perfect Partner for Light Industrial Applications and Smart Retail



Nova 5

Flexible Smart Manufacturing Line and Advanced Health and Therapy Assistant



Industry Applications

Lightweight Industrial Applications

From laboratory assistance to 3C electronics testing, and from automotive parts assembly to data center inspections, the Nova series breaks through production line space constraints with its compact design. Lightweight and easy to deploy, it can be flexibly integrated with AGVs to enable rapid production line reconfiguration and multi-scenario reuse. With industrial-grade accuracy of ± 0.05 mm and extremely low deployment costs, it delivers rapid returns on investment through flexible automation.



Pulleys Assembly



Cosmetics Inspection



Mobile Phone Recycling Inspection



Injection Molding Part Loading and Unloading



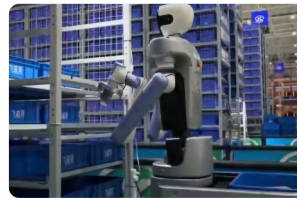
Conveyor Belt Loading and Unloading



3D Printer Automatic Loading



Automatic Carton Labeling



Warehouse Material Picking and Handling

New Commercial Scenes

With its ultra-lightweight design, premium quality, and user-friendly operation, the Nova series has made its way into coffee and tea shops as well as wellness and therapy settings. It eliminates repetitive tasks in the confined space of a counter, standardizes service, enhances service quality with minimal investment, and creates a tangible sense of brand warmth in commercial spaces.



Robot Coffee



Spicy Hot Pot Robot



Noodle Robot



Unmanned Coca-Cola Vending Station



Ice Cream Robot



Smart Kitchen Appliances



Moxibustion Robot



Massage Robot



Tomato Harvesting Robot



Medical Sample Management



Supermarket Picking Robot



Entertainment Camera Robot