



300°/s

Industry-leading Wrist Joint Speed

1800mm

Extended Reach

±0.05mm

Repeatability

IP65

Rugged Protection

CR 30H

Next-gen Flagship Cobot

**Industry's Fastest 30kg
Cobot for Peak Productivity**

DOBOT CR 30H

Born Powerful

Industry's Fastest 30kg
Cobot for Peak Productivity

High-Speed

High-Performance

High-Stability



Strong | High Performance

| **30 kg Payload**

Ideal for heavy-duty handling in food production, chemicals, logistics, and automotive.

| **1800 mm Reach**

Engineered for large-scale production and ideal for heavy-part handling and seamless multi-station workflows.

Fast | High Speed

| **300 °/s Wrist Joint Speed**

Precision Motion Control - Swift yet stable handling & palletizing.
Boosted Efficiency - Maximizes production throughput.

Stable | High Stability

| **Stable Operation under High Speed & Heavy Load**

Advanced vibration suppression and TrueMotion path correction ensure jitter-free precision at full-speed production.



Next-gen Flagship Performance

Designed for high-end industrial automation, the CR 30H redefines heavy-duty collaboration with unmatched payload, speed, and stability. Its record-breaking 300°/s wrist joint speed—fastest in its class—delivers next-level productivity.



Uncompromising Quality

With over 80,000 cobots deployed and 200,000+ customers worldwide, DOBOT delivers proven reliability through 160+ precision assembly steps and 200+ rigorous quality tests. Combining peak performance, productivity, and durability, we've become the trusted automation partner for manufacturers globally.

Faster - Palletizing Power Unleashed, Productivity Doubled

300°/s Industry-leading Joint Speed



- Precision Motion Control – Swift yet stable handling & palletizing.
- Boosted Efficiency – Maximizes production throughput.

Palletizing/Handling Pace: 8-12 pcs/min

- Unlike the traditional palletizing system, the CR 30H solution can achieve new levels of automated palletizing performance.

*Cycle time may vary based on product weight, dimensions, and gripping methods.

Smarter Speed, Proven Results

- Equipped with HyperMove motion control that intelligently adjusts acceleration to maintain maximum reliable speed, delivering 20% higher single-unit efficiency than competitors.

More Reliable - Engineered for Uncompromising Performance

High-Density Servo Drive Technology



- Equipped with a high-performance power engine and 96V mid-voltage servo drive technology, delivering 50% more power with 20% less heat generation.

Optimized Joint Stability



- 30% fewer components for enhanced system reliability and significantly reduced downtime.

Fail-Safe Electromagnetic Braking



- Equipped with a fail-safe electromagnetic brake that automatically activates in the event of a power outage, limiting the end effector displacement to near zero drop for maximum safety and precision.

IP65 Rugged Protection



- Resists dust, water jets, and oil contamination.

More Stable - Unmatched Stability under High Speed & Heavy Load

- A more stable mechanical design combined with advanced vibration suppression algorithms ensures smoother robot motion.
- TrueMotion high-speed path accuracy technology meets the demands of precision-critical applications.



Smarter - Boosts Human-Robot Collaboration Efficiency

One-Hand Drag-to-Teach



- Industry's first 30kg payload cobot with integrated torque sensors.
- Enables 90% faster programming with intuitive dragging.

Shorter Control Cycle



- Higher control frequency enables faster response and more precise motion control.

Detects & Brakes for Potential Collisions within 10 ms



- Advanced self-interference avoidance algorithm detects and stops potential collisions within 10 ms, minimizing risk of tool and robot damage.



Where Engineering Meets Elegance

- The streamlined joint design with cutting-edge technology ensures the efficient yet safe operation.
- 50% lighter than other industrial robots, effortless deployment for flexible manufacturing.



Compact and Lightweight

- With a 50% weight reduction compared to similar industrial models, the robot is highly compact, easy to deploy, and ideal for flexible manufacturing environments.



Quick Configuration, Intuitive Control

Making Industrial Manufacturing Smarter and More Efficient

- Blockly graphical programming, get started in just 30 minutes. Intuitive interface, easy operation for users of all skill levels.

International Quality Standards

Powerful Performance, Uncompromising Quality, Total Peace of Mind

- DOBOT's cobots have achieved global reach since 2015 - now with 50+ certifications across 40 economies and market access in 180 countries and regions.



International
Certification Standards



12/7 Global
Support



Delivering Professional
Technical Service Worldwide



90% In-House R&D
Key Components

Heavy-Duty, High-Speed, Ultra-Stable Unlock Full-Scenario Productivity Across Industries



Food & Beverage

Full-case palletizing and raw material handling solutions for dairy and frozen food production lines.

Automotive

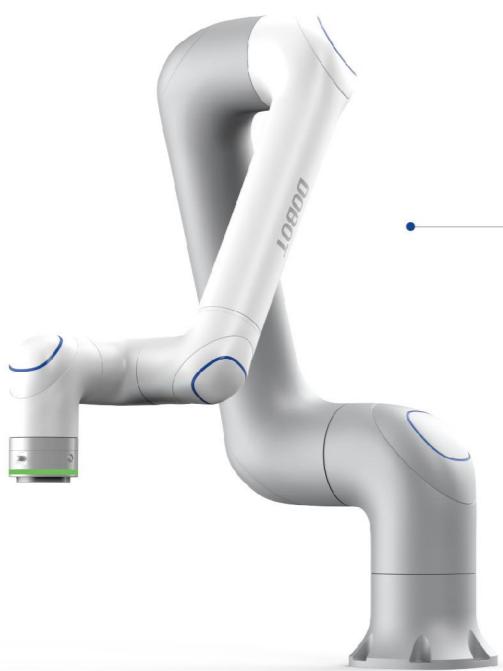
Automotive wheel hub handling, seat assembly, and battery module transfer, etc.

Metal Processing

Handling of heavy-duty workpieces, welding, loading & unloading.

Semiconductor

Wafer handling and packaging solutions.



CR 30H - Standard

Reliable Performance, Unmatched Productivity

- Unaffected by environment, doubling productivity.
- Unlocks full-scenario manufacturing potential.

CR 30HT - Torque Sensor

Intuitive Collaboration, Effortless Teaching

- Built-in joint torque sensors.
- One-hand drag-to-teach functionality.
- Instant collision detection response.



CR 30H - Food-Grade

Food-Safe Automation Certified

- NSF International certified components.
- Food-grade lubricant.
- Rinse directly with water, easier to clean.

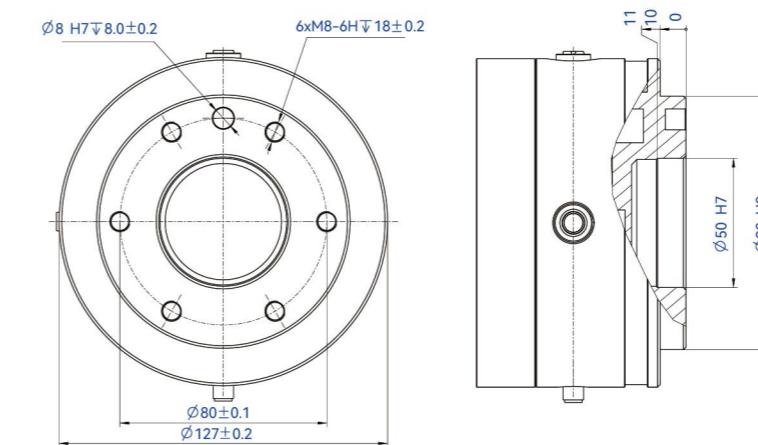
Product Specifications

Robot Body	
Weight	100 kg
Max. Payload	30 kg
Reach	1800 mm
Joint Range	J1/J2/J4/J5/J6
	± 360°
Max. Joint Speed	J3
	± 163°
	J1/J2
End IO	150°/s
	J3
	200°/s
Power Supply	J4/J5/J6
	300°/s
	0/12/24V, 2A(avg), 3A(max)
Connector 1	2DI + 2DO + RS485
	Connector 2
Repeatability	2DI + 2DO
IP Rating	± 0.05 mm
IP Rating	IP65
Noise Level	70dB(A)
Operating Temp	0 ~ 50°C
Mounting	Floor/Wall/Ceiling
Cable Length	6 m (Body to Cabinet)
Materials	Aluminum Alloy/ABS/Rubber

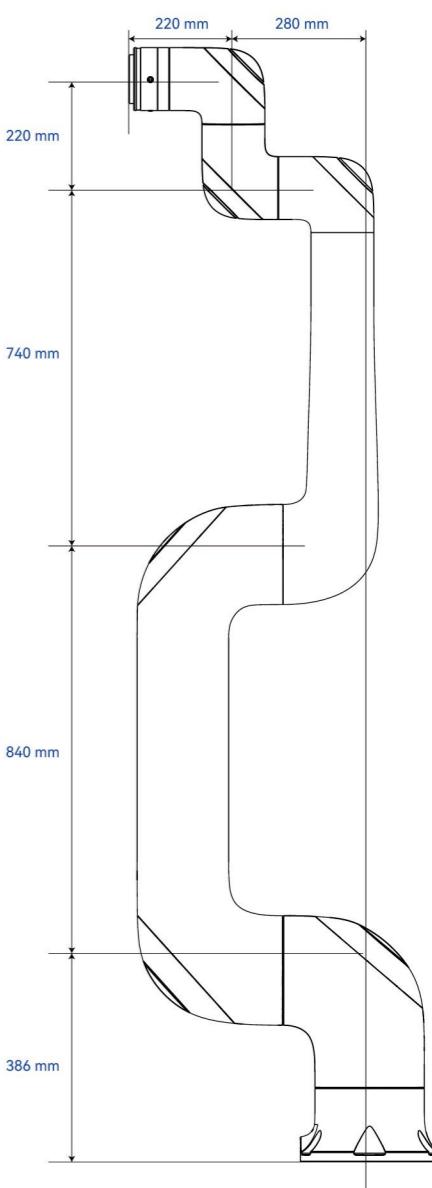
Control Cabinet	
Dimensions	400 mm × 190 mm × 400 mm
Weight	19 kg
Power Input	200-240V AC, 50/60Hz
IO Power	24V, 3A(max), 0.5A/channel
General I/O Interface	DI
	Digital Input 24 channels (NPN/PNP)
	DO
	Digital Output 24 channels (NPN/PNP)
Safety I/O Interface	AI
	Analog Input 2 channels, 0-10V/4-20mA
Communication Interface	AO
	Analog Output 2 channels, 0-10V/4-20mA
Environment	SI
	Safety Input 10 channels
Teach Pendant	SO
	Safety Output 10 channels
	Network Ports
IP Rating	2× Ethernet (TCP/IP, Modbus TCP, Ethernet/IP, Profinet)
	1× (Modbus RTU)
Teaching Methods	Encoder
	1× ABZ incremental interface
Temperature/Humidity	0-50°C, ≤95% RH (non-condensing)
IP Rating	IP20 (Optional IP54)
Teaching Methods	Teach Pendant/PC/Android App



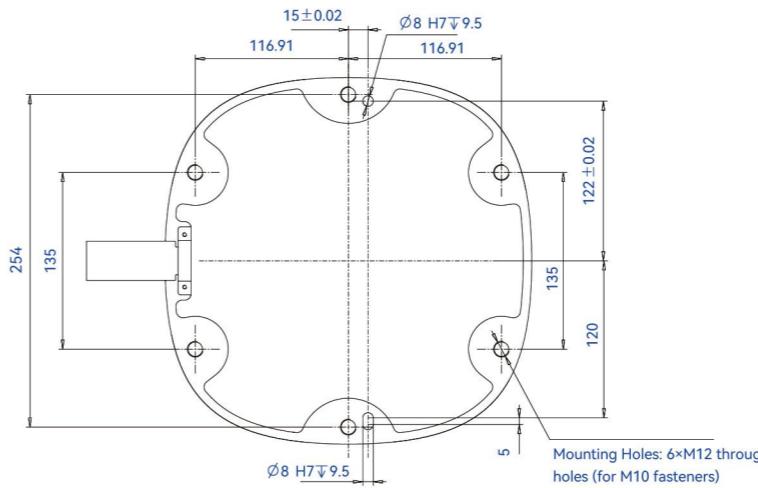
End-Effector Flange Parameters



Robot Body Parameters



Base Mounting Dimensions



Teach Pendant

Dimensions	294 mm × 184 mm × 59 mm
Weight	1.09 kg
IP Rating	IP54 (Dust protected, splash proof)
Cable Length	4.5 m (Controller to Cabinet)
Display Size	10.1 inches
Display Resolution	1900 × 1200@60Hz
Memory	4GB RAM + 32GB Storage

Generation ROBOTS

Brand of **NGX ROBOTICS**



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