GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · HIGH-SPEED INDUSTRIAL COBOT

DOBOT PULSA

Industrial Performance, Collaborative Design

Industrial-grade speed, rigidity and off-center load capability, with the safety features and intuitive operation of a cobot.

Presented by GateIn Technology · Exclusive DOBOT partner in Egypt



gateintech.com · Benchmark Tomorrow's Tech.

Industrial speed meets collaborative safety



Industrial robots

Fast cycle times, high stiffness, high speed, industrial-grade off-center load capability.

Cobots

Safety, simplicity, intuitive operation, ISO 13849-1 PLd Cat. 3.

Rated payload

PULSA 7: 7 kg · PULSA 12: 12 kg.

Speed that sets the pace

Max J6 joint speed of 790°/s and a 0.75 s cycle time* on PULSA 7.

*Cycle time measured on a 200–500–200 mm test path in accordance with ISO 9283.

Switch modes, stay protected



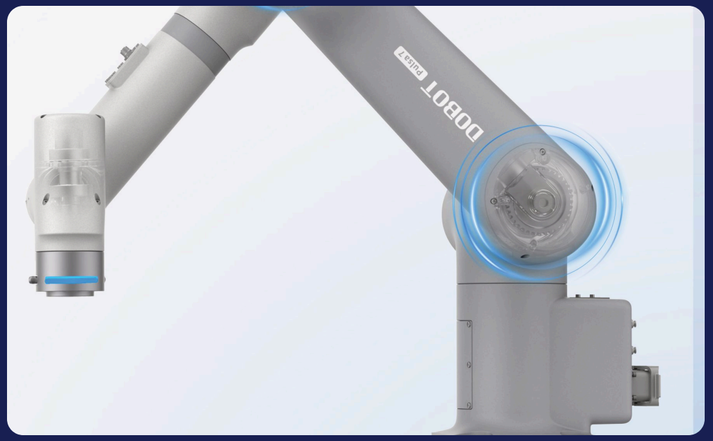
Switch modes, stay protected

Reduced mode, configurable TCP speed, safety walls and zones. ISO 13849-1 PLd Cat. 3.



Integrated internal routing

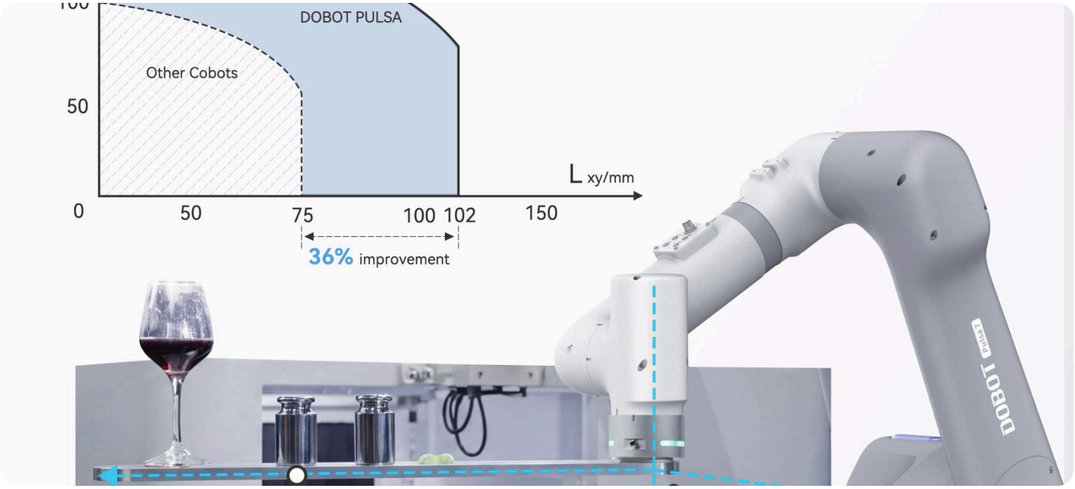
4 × Ø4 mm air lines + 12-pin I/O routed J1–J4; 8- and 12-pin connectors; 24 DI/24 DO, 16 safety in/out.



Automatic holding on power loss

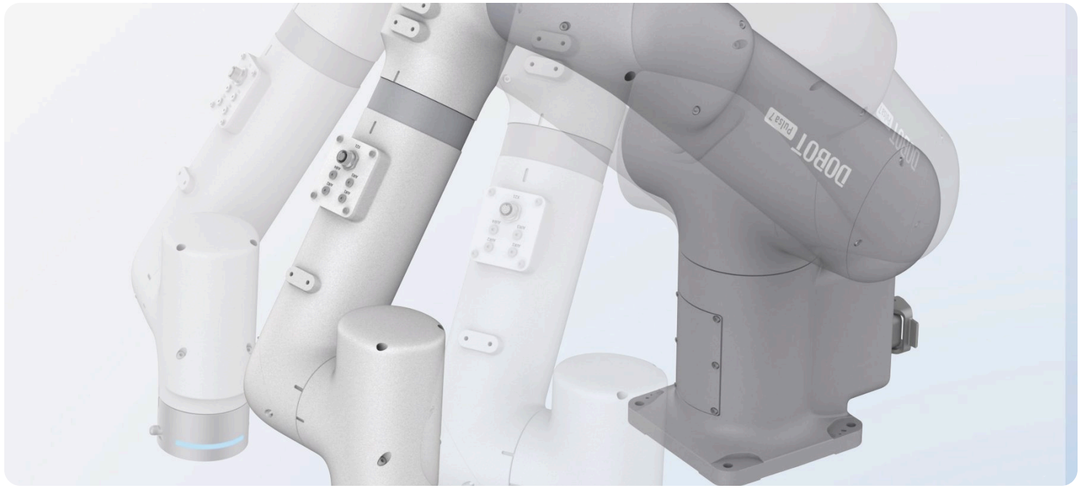
Electromagnetic brake engages within 18 ms, limiting tool-end drop to under 1 mm.

Long parts, precise placement



Long parts, more ways to grip

Industrial-grade off-center load; PULSA 12 supports ~78% higher allowable load inertia than comparable models.



Fast moves, precise placement

Repeatability ±0.02 mm (PULSA 7), ±0.03 mm (PULSA 12); 1 kHz control loop.

Built for demanding environments



IP67 · ISO Class 5

Fully enclosed design against dust and water; cleanroom-suitable for electronics, labs and biopharma.



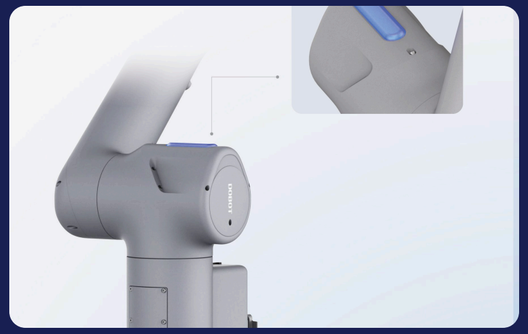
Mount your way

Arm upright, inverted or side-mounted; controller vertical or horizontal.



Graphical programming

Get started in about one hour with intuitive graphical programming.



See status at a glance

Status lights at the tool flange and base.

Connect easily, deploy globally

Material handling, assembly, sorting, palletizing, grinding, dispensing and inspection.



Industrial protocols

PROFINET, EtherCAT, EtherNet/IP, Modbus TCP for widely used PLCs and control systems.

DOBOT+ ecosystem

End-effectors including SCHUNK and OnRobot simplify selection and integration.

Global compliance

Meets applicable CE, NRTL, CR, KCs and FCC requirements.

Applications

Consumer electronics, automotive components, metalworking, logistics and warehousing.

PULSA Robot specifications

Item	PULSA 7	PULSA 12
Payload · weight · reach	7 kg · 44 kg · 910 mm	12 kg · 125 kg · 1450 mm
Joint range	J1 ±180°, J2 ±165°, J3 ±160°, J4 ±200°, J5/J6 ±360°	J1 ±180°, J2 ±180°, J3 ±160°, J4 ±200°, J5/J6 ±360°
Max joint speed	J1 390, J2 330, J3 345, J4 535, J5 495, J6 790 °/s	J1 255, J2 255, J3 280, J4 430, J5 450, J6 735 °/s
Repeatability	±0.02 mm	±0.03 mm
Tool I/O	2 DI, 2 DO, 2 AI (multiplexed with RS-485)	2 DI, 2 DO, 2 AI (multiplexed with RS-485)
Protection · temperature	IP67 · 0–50 °C	IP67 · 0–50 °C
Mounting · connections	Any orientation · 4 × 4 mm air lines, 12-pin I/O	Any orientation · 4 × 4 mm air lines, 12-pin I/O
Cable · material	5 m standard (10/15/20 m optional) · aluminium alloy	5 m standard (10/15/20 m optional) · aluminium alloy

PULSA Controller specifications

Parameter	Controller
Model	HPC1026 (PULSA 7) · HPC3526 (PULSA 12)
Dimensions · weight	360 × 360 × 160 mm · 11.3 kg / 11.6 kg
Input · I/O power	220–240 V · 24 V, max 3 A, max 0.5 A per channel
I/O interface	24 DI, 24 DO (NPN/PNP) · 2 AI, voltage/current, 0–10 V, 4–20 mA
Ethernet	2 ports: TCP/IP, Modbus TCP, EtherNet/IP, PROFINET
USB · RS485 · encoder	2 USB (Wi-Fi module, file import/export) · 1 RS485 (Modbus RTU) · 1 ABZ incremental encoder
Environment	0–50 °C · ≤95% RH non-condensing · IP20 (optional IP54) · fan cooling
Remote power · programming	Yes · PC, Android app, teach pendant

GateIn One accountable partner

We don’t just ship the PULSA. GateIn designs, supplies, installs, integrates and supports DOBOT solutions for universities, schools, government and industry, from the first plan to long-term support.

+120
ROBOTS SUPPLIED IN EGYPT
Industrial, service and educational

91
LABORATORIES
Across 45 institutions

+30
STRATEGIC & GLOBAL PARTNERS

5
YEARS OF DELIVERY
Since 2021

Design | Sourcing | Installation | Integration | Training | Long-term Support

An integrator, not a vendor.

Exclusive DOBOT partner for Egypt

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Let’s plan your PULSA deployment

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