

D-Bots: Automation Made Accessible



Ready for Diverse Needs

D-Bots seamlessly adapt to various industrial needs with advanced capabilities:

- **Robotic Precision and Human Ingenuity:** They tackle complex manufacturing challenges, enhancing operations and sparking innovation.
- **Revolutionizing Industries:** By synergizing with human efforts, D-Bots boost efficiency and drive innovation, proving indispensable in collaborative, modern workspaces.

Applications Across Industries:

- Assembly
- Packaging & Labeling
- Welding
- Charging
- Material Handling
- Machine Tending
- Finishing
- Transportation
- Quality Inspection
- Dispensing



Built with Safety in Mind

D-Bots are equipped with cutting-edge safety technologies for reliable operation:

- **Innovative Reflex Safety:** They automatically halt upon detecting contact, especially the new reflex function significantly enhances workplace safety, by making way for the human and preventing clamping accidents.
- **IP66 Certification:** While this provides robust protection against dust and water, it also ensures optimal performance under tough conditions and minimizes maintenance requirements.
- **Adjustable Speed Settings:** These settings allow for tailored speed adjustments to match specific task requirements and environmental conditions, improving safety for close human-robot interaction.



From Box to Bot in under 3 Hours

- **Rapid Deployment:** Each D-Bot comes with a quick start guide, enabling a swift transition from unboxing to full operation, significantly reducing setup time.
- **Seamless Integration:** The straightforward and user-friendly design of D-Bots ensures they can be smoothly integrated into your daily workflows without disruption.
- **Advanced Teach Pendant:** It simplifies the programming process. It's designed to be accessible to users of all skill levels and facilitates real-time adjustments.



Total Installation Flexibility

- **Versatile Mounting:** Instalable not just upright, sideways or overhead but in any orientation offering unparalleled flexibility for your operational needs.
- **Space Efficiency:** The D-Bot makes the most out of the available workspace.
- **Seamless Integration:** Software and hardware can easily be integrated into your production.



Specifications

| | DC06 | DC08 | DC10 | DC16 | DC20 | DC30 |
|---------------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| Payload | 6 kg (13.3 lbs) | 8 kg (17.7 lbs) | 10 kg (22.1 lbs) | 16 kg (35.3 lbs) | 20 kg (44.1 lbs) | 30 kg (66.2 lbs) |
| Reach | 800 mm (31.5 in) | 1300 mm (51.2 in) | 1200 mm (47.3 in) | 1600 mm (63 in) | 1800 mm (70.1 in) | 1300 mm (51.2 in) |
| Degrees of Freedom | 6 rotary joints | 6 rotary joints | 6 rotary joints | 6 rotary joints | 6 rotary joints | 6 rotary joints |

Environment & Safety

| | |
|----------------------------|---|
| Ambient Temperature | Ambient temperature: 0° to 40°C (32° to 104°F) |
| IP Classification | IP 66 water and dust protection |
| Safety Rating | PLd Cat3. / SIL 3 (Safe position, speed, torque limits, I/Os) |
| Safety Functions | 25 configurable safety functions |

Performance

| | | | | | | |
|------------------------------|---------------------------------|----------|----------|----------|----------|----------|
| Max. TCP Speed | 2 m/s | 3 m/s | 3 m/s | 3 m/s | 3 m/s | 3 m/s |
| Pose Repeatability | ±0.02 mm | ±0.02 mm | ±0.02 mm | ±0.02 mm | ±0.02 mm | ±0.02 mm |
| Programming Interface | Drag & Drop, Python, ROS 1, C++ | | | | | |

Physical

| | | | | | | |
|-----------------|--|----------------|----------------|-----------------|------------------|-----------------|
| Weight | 24 kg (53 lbs) | 40 kg (88 lbs) | 39 kg (86 lbs) | 70 kg (154 lbs) | 101 kg (223 lbs) | 98 kg (216 lbs) |
| Mounting | Omnidirectional, including table mounting, wall mounting, and ceiling mounting | | | | | |



Control Box

| | |
|---------------------|---|
| Dimensions | 493 mm x 470 mm x 243 mm |
| Weight | 20 kg (44.1 lbs) |
| Power Supply | 100-240 VAC, 50/60 Hz, max. 1 kW (for DC30 max. 2 kW) |
| Interface | EtherNet/IP, USB 3.0, Safe I/Os |



Teach pendant

| | |
|---------------------|--------------------------|
| Dimensions | 300 mm x 245 mm x 133 mm |
| Resolution | 2560 x 1600 px |
| Cable length | 5 m (3.3 ft) |

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