

# D-Bots: Built to Fit Your Workflow



## Adapts to Any Task

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
- Finishing
- Machine Tending
- Packaging
- Material Handling
- Pick & Place
- Transportation
- Welding
- Quality Inspection



## Engineered for Safety

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 60 Minutes

- **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.



## 360° Installation Freedom

- **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
<b>Payload</b>	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)
<b>Reach</b>	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)
<b>Degrees of Freedom</b>	6 rotary joints	6 rotary joints	6 rotary joints	6 rotary joints	6 rotary joints	6 rotary joints

### Environment & Safety

<b>Ambient Temperature</b>	Ambient temperature: 0° to 40°C (32° to 104°F)					
<b>IP Classification</b>	IP66	IP66	IP66	IP66	IP54	IP66
<b>Safety Rating</b>	PLd Cat3. / SIL 2 (Safe position, speed, torque limits, I/Os)					
<b>Safety Functions</b>	20 configurable safety functions					

### Performance

<b>Max. TCP Speed</b>	2 m/s	3 m/s	3 m/s	3 m/s	3 m/s	3 m/s
<b>Pose Repeatability</b>	±0.02 mm	±0.02 mm	±0.02 mm	±0.03 mm	±0.03 mm	±0.05 mm
<b>Programming Interface</b>	Drag & Drop, Python, C#, C++, ROS 1, ROS 2					

### Physical

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



### Control Box

<b>Dimensions</b>	493 mm x 470 mm x 243 mm
<b>Weight</b>	20 kg (44.1 lbs)
<b>Power Supply</b>	100-240 VAC, 50/60 Hz, max. 1 kW (for DC30 max. 2 kW)
<b>Interface</b>	EtherNet/IP, ModbusTCP, USB 3.0, Safe I/Os
<b>Additional Hardware</b>	OPC UA, Profinet, EtherCAT



### Teach Pendant

<b>Dimensions</b>	300 mm x 245 mm x 133 mm
<b>Resolution</b>	2560 x 1600
<b>Cable length</b>	5 m (3.3 ft)

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