
TALON®
Medium-Sized Tactical Robot

For over 15 years, TALON robots have been used worldwide for explosive ordnance disposal, chemical, biological, radiological, nuclear, explosive reconnaissance, sensing, defense, security and rescue missions. These rugged and reliable robots have earned a reputation for durability, flexibility and performance in keeping military, first responders and civilians out of harm’s way.

Proven Leadership in Robotics
TALON robots have been in continuous, active service since 2000 when they were used in Bosnia for moving and disposing of live explosives. They were the first military robot to be used in active combat in Afghanistan and in Iraq. Now on its fifth generation, TALON 5 is the first Interoperability Profile (IOP) fielded robotic system that has successfully gone through Army Test and Evaluation Command testing.

Superb Mobility
TALON 5’s high performance drive motor option supports speeds up to six miles per hour, with enough torque to climb a 45° staircase. This rugged robot has proven to be operational in the most challenging environments and adverse weather conditions.

Features
- IOP and SAE JAUS AS4 compliant
- Easy to maintain and repair
- Highly mobile
- Rugged and reliable
- Configurable for combat engineers, EOD, CBRN
- Heavy-lift, multiple degree-of-freedom manipulator arm
- Flexible controller options
- User-defined graphical interface and programmable manipulator presets
- Autonomy and mapping
- High-definition video
- Powerful, secure, digital encrypted communications

Benefits
- Keeps the Military, law enforcement and first responders away from harm’s way
- Provides real-time information and situational awareness to support critical and often dangerous missions and ground operations
- Reduces cost of life cycle support logistics
- Saves lives

Combat and field proven for over 15 years.
### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
<td>34.5&quot; (87 cm)</td>
</tr>
<tr>
<td></td>
<td>With Arm: 43.5&quot; (110 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>22.75&quot; (58 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>33&quot; (83 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>150 – 225 lbs. (68 – 102 kg) (configuration dependent)</td>
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### Features and Capacities

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>Speed</td>
<td>Up to 6 mph (9.6 Kp/h) Digital, closed loop motor control</td>
</tr>
<tr>
<td>Stair Climbing</td>
<td>45° slope</td>
</tr>
<tr>
<td>Turning Circle</td>
<td>52.5&quot; diameter (133 cm)</td>
</tr>
<tr>
<td>Max Payload Weight</td>
<td>150 lbs. (68 kg)</td>
</tr>
<tr>
<td>Vertical Reach</td>
<td>77&quot; from floor (195 kg)</td>
</tr>
<tr>
<td>Horizontal Reach</td>
<td>62&quot; from front most edge of track (157 cm)</td>
</tr>
<tr>
<td>Gripper Force</td>
<td>110 lbs (49.9 kg)</td>
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<tr>
<td>Gripper Rotation</td>
<td>360° (continuous)</td>
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### Communications

- External IP Radio (Persistent System’s MPU5 Radio)
- Gigabit Ethernet Communications Backbone

### Operating Range

- Over 2,600 feet (800 m) Line-of-Sight

### Cameras

- Four (4)

### Endurance

- 3-4 hours (mission dependent)

### Available I/O Ports

- 2x IOP A connectors
- 1x IOP B connector
- 4x Gigabit Ethernet and 12VDC (24VDC opt.)
- 2x RS-232 ports
- 1x USB port
- 1x CAN bus
- 6x Interfaces for legacy TALON accessories