



# TALON<sup>®</sup>

Multi-Mission EOD Robot

For 20 years TALON<sup>®</sup> robots have been used worldwide for explosive ordnance disposal, chemical, biological, radiological, nuclear, reconnaissance, defense, security and rescue missions. TALON<sup>®</sup> has earned a reputation for durability, flexibility and performance in keeping the Military, first responders and civilians out of harm's way.

### Proven Leadership in Robotics

TALON<sup>®</sup> robots have been in continuous, active service since 2000 when they were first used in Bosnia for moving and disposing of live explosives. They were also 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

Built to be rugged, TALON<sup>®</sup> has proven to be operational in the most challenging environments and adverse weather conditions. TALON 5's optional high-performance drive motor provides enough torque to climb a 45° staircase.

### Key Features and Benefits

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IOP and SAE JAUS AS4 compliant

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Easy to maintain and repair

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Highly mobile

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Rugged and reliable

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Configurable for combat engineers, EOD, CBRN

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Heavy-lift, multiple degree-of-freedom manipulator arm

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User-defined graphical interface and programmable manipulator presets

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Autonomy and mapping

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High-definition video

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Powerful, secure, digital encrypted communications

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Flexible controller options

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Keeps the Military, law enforcement and first responders away from danger

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Provides real-time information and situational awareness to support critical and often dangerous missions and ground operations

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Reduces cost of life cycle support logistics

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Saves lives

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## TALON® 5 DOF General Specifications

<b>Physical</b>	
<b>Length</b>	34.5" (87 cm) With arm: 43.5" (110 cm)
<b>Width</b>	22.75" (58 cm)
<b>Height</b>	33" (83 cm)
<b>Weight</b>	178 lbs. (81 kg) (with batteries)
<b>Features and Capacities</b>	
<b>Endurance</b>	3-4 hours (mission dependent)
<b>Obstacle Navigation</b>	Up to 43 degree stairs Up to 45 degree slide slope Up to 15" (38 cm) snow or demolition rubble
<b>Tow Capacity</b>	220 lbs (100 kg)
<b>Turning Circle</b>	52.5" diameter (133 cm)
<b>Max Payload Weight</b>	150 lbs. (68 kg)
<b>Vertical Reach</b>	77" from floor (195 cm) Reach to wrist: 66" (168 cm) Reach to gripper tip: 77" (195 cm)
<b>Horizontal Reach</b>	62" from front most edge of track (157 cm) Reach to wrist 49" (125 cm) Reach to gripper tip 59" (152 cm)
<b>Gripper Force</b>	110 lbs (49.9 kg) gripping strength
<b>Gripper Rotation</b>	360 degree rotation (continuous)
<b>Controller Options</b>	LCU (Laptop Control Unit) TRC (Tactical Robot Controller) UC-LITE (Universal Controller - Lightweight Interoperable Tactical Equipment)
<b>Communications</b>	External IP Radio (Persistent System's MPU5 Radio) Gigabit Ethernet Communications Backbone
<b>Operating Range</b>	Exceeds over 2,600 feet (800 m) Line-of-Sight
<b>Cameras</b>	Gripper, Elbow, Rear (two options): Infrared illuminated analog cameras (gripper, elbow, rear), Pixels (HxV); NTSC: 510x49  IOP digital camera w/ 20 x digital zoom, 1/3" 2.1 Megapixel Color CMOS sensor, 720p resolution, Low light - 0.1 lux/F=1.  PTZ: Auto focus color zoom camera, NTSC - 1 / 4 Supper HAD CCD, 680,000 pixels, 470 TV lines, 300:1 (26X optical - 12X digital)
<b>Optional Cameras</b>	Thermal color or B&W (supported) Night vision (supported)
<b>Available I/O Ports</b>	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

**Note:** Due to continuous process improvements, specifications are subject to change without notice.



## Collaborating with QinetiQ Inc.

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