

Robotic Controller Kit for Bobcat Loaders

QinetiQ North America's robotic controller kit can be installed in about 15 minutes on any of 17 models of Bobcat skid-steer, all-wheel steer, or compact track loaders that are equipped with Selectable Joystick Controls (SJC).

The kit temporarily turns the loader into a remotely operated "robot" capable of using more than 37 Bobcat-approved attachments. The loader can be sent down-range to handle large, deep-buried IEDs or vehicle-borne IEDs or land mines and unex-

ploded ordnance. Upon completion of a mission, the kit can be removed, reverting the machine to "in the seat" operation. The kit can be swapped from one SJC-equipped Bobcat loader to another by the user, allowing the mission to dictate what size machine to use along with what specific attachment works best.

The robotics kit for Bobcat loaders includes seven cameras for non-line-of-sight operation, a microphone to enable the remote operator to hear ambient sound from the cab, three different CREW 2.1 compatible radio options, three control options (laptop, wearable and table top), green and yellow warning lights to signal robotic engagement, an anti-rollover warning system, and emergency manual shut off switches on the vehicle and on the control panel that support remote restart.

The kit's hardened electronics are rated at 156°F and have passed rigorous MIL-STD-810F environmental testing. Cameras include five mounted on the roof, one in the cab and one on the vehicle looking at the load. Night vision is provided by IR illumination and thermal imaging in addition to the white lights on the Bobcat loader itself.

Three Types of Control Units Support the Kit – Ruggedized Laptop (shown)



Bobcat Loaders Compatible with Robotic Controller Kit

Skid Steer Loaders:

S-130 S-205
S-150 S-220
S-160 S-250
S-175 S-300
S-185 S-330

Compact Track Loaders:

T-140 T-250
T-180 T-300
T-190 T-320

All Wheel Steer Loaders:

A300



Wearable Controller



Tabletop Controller with Kit

For further information, or to arrange a demonstration of this capability, please contact Joanne Armstrong at 781.684.3960 or TALONsales@QinetiQ-NA.com.