



Control Solutions has been providing military systems for over 30 years. Our Turret Control System (TCS) have been fielded on over 70,000 platforms including HMMWV, MATV, JLTV and MRAPs in use by militaries all over the world .

Our products reduce gunner fatigue and improve their safety, while keeping their eyes on the mission and hands on the weapon.

Control Solutions LLC is your one-stop solution provider for tough motion control problems. Our team of engineers and ISO-certified manufacturing personnel stand ready to quickly solve, design, and manufacture your custom solution today.

Contact us to see how we can help you with your requirements today!



Visit our website:
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TCS (Turret Control System)

TCS (Turret Control System) is the military's go-to, combat-proven solution that enhances gunner survivability. The TCS product family reduces gunner fatigue and offers the ability to control the heavy armored gun turret while maintaining an eye on the mission.

The main TCS components consist of: Motor Controller and Gear Assembly, Joystick and Thumb Actuator Controllers.

The TCS provides smooth, proportional acceleration and control of the armored gun turret even when the vehicle is on a high angle slope.



Turret Drive System



Thumb Actuator



Fingertip Actuator



Turret Motor Controllers



Joystick Actuators



Power Modules



Joystick with E-Stop



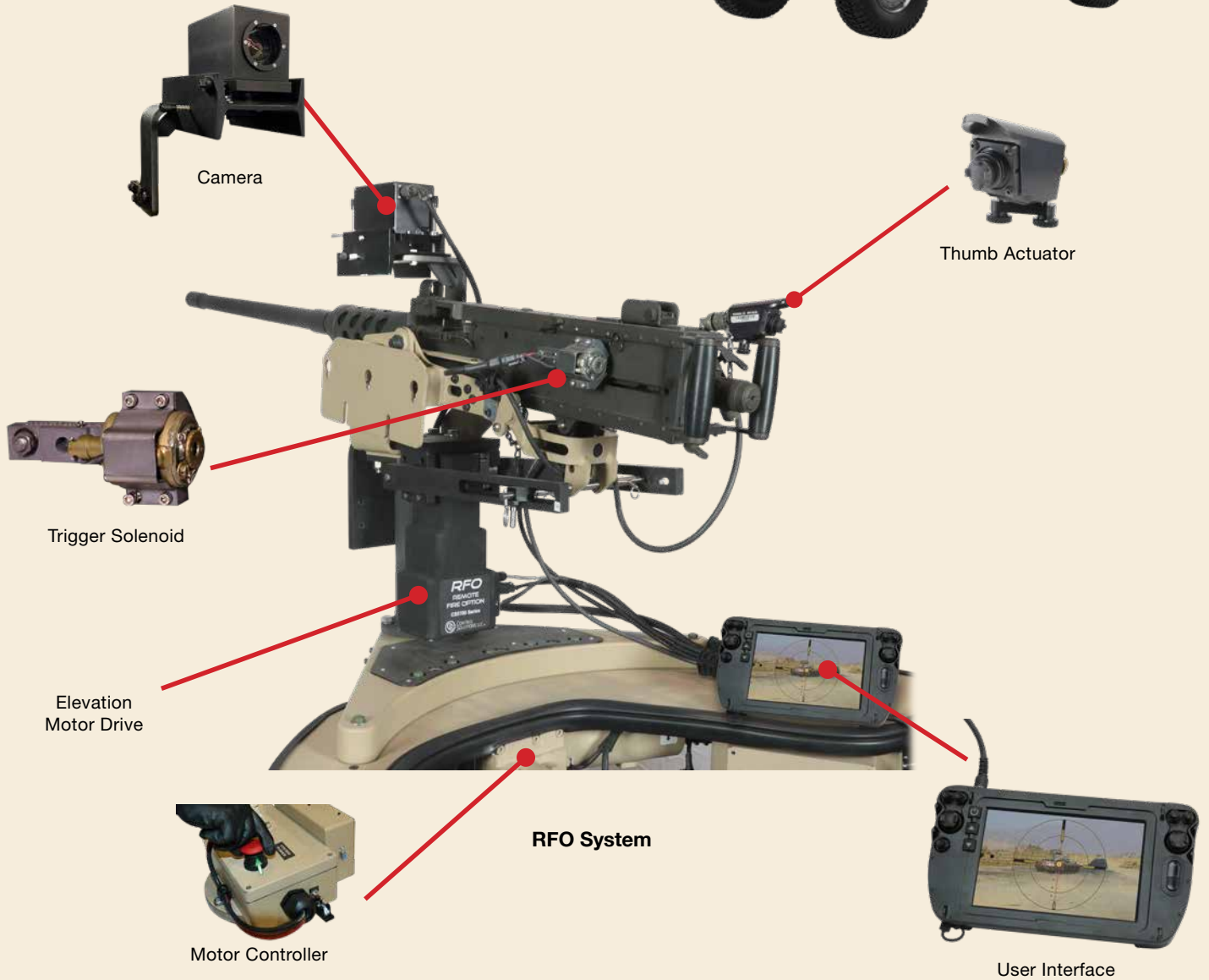
Cables and Cable Kits



RFO (Remote Firing Option) System

RFO (Remote Firing Option) is a modular upgrade to existing Tactical Wheeled Vehicle (TWV) motorized manned gun turrets, providing the capability for the gunner to remotely operate the primary weapon system from inside the safe confines of the vehicle, as well as from the traditional gunner position with their head outside of the vehicle.

The main RFO components consist of: Camera, Elevation Motor/ Drive, Motor Controller, User Interface (UI), Weapon Mount, Bearing Sleeve, Improved A-Frame and Remote Trigger assembly.



TCS bridges the gaps between manual turrets & motorized turrets.
The RFO system bridges the gap between motorized turrets and systems like RWS

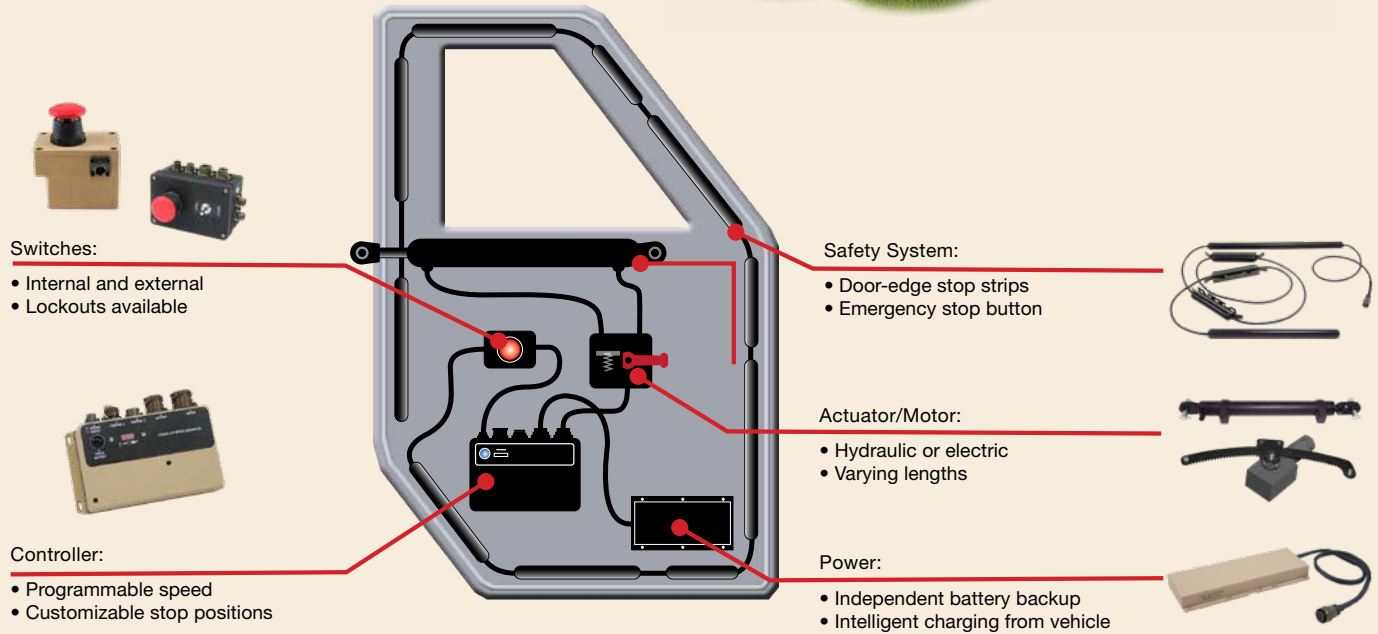
	Manual Turret	TCS	RFO	RWS
Cost	\$	\$\$	\$\$\$\$	\$\$\$\$\$\$\$\$
Accuracy	⊙	⊙⊙⊙	⊙⊙⊙⊙	⊙⊙⊙⊙⊙
Protection	♥	♥♥♥	♥♥♥♥♥	♥♥♥♥♥♥

Specifications Subject to change without notice.

PDS (Power Door System)

The Power Door System (PDS)* provides a patented solution for opening/closing the most heavily armored vehicle doors, even when on sloping terrain. The feature-rich powered door system provides the vehicle crew with the ability to operate the doors even when the truck power system is inoperable.

**This product is covered by one or more of the following patents: US 8002328, US 7959211, US 10,584,936 B2 and US Design D632554.*



Representative sample configuration (call for vehicle integration).



Control Solutions LLC corporate headquarters and manufacturing located in the western suburbs of Chicago, Illinois

Founded in 1989, Control Solutions designed the first microprocessor-based DC motor controller used in the scooter industry. Since then, Control Solutions has grown to become the industry leader in motion-control solutions.

Today, that technology is used in our military products such as our TCS (Turret Control System) and PDS (Powered Door Systems) and RFO (Remote Firing Options).



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