Control Solutions LLC® solves tough problems for armored military tactical vehicles. Control Solutions designs and manufactures tactical vehicle turret systems by integrating large-diameter ring bearings, vehicle roof framework, and ballistic armor with a robust motorized control system that operates independently from the vehicle’s battery power.

Solve it, Design it, Build it.....

It’s not just a slogan, it’s what we do! Control Solutions is your one-stop integrator for turret systems including armor and motion control. Our team of engineers and ISO-certified manufacturing personnel stands ready to quickly solve, design, and manufacture your custom solution today.
Control Solutions LLC is a one-stop provider of complete gunner protection kits for military customers worldwide. We have fielded over 60,000 of the motorized control systems to U.S. vehicle manufacturers. Known as the BPMTU (Battery-powered Motorized Traversing Unit) and the ITDS (Improved Turret Drive System), these solutions have been designed and installed to help the gunner move the up-armored turret quickly, or move the turret against gravity when the vehicle is on an incline.

O-GPK Objective Gunner Protection Kit

The complete Gunner’s Protection Kit includes the following sub-system elements:

- Tactical vehicle rooftop mounting ring (vehicle-specific)
- Traversing gear ring (customized to diameter of rooftop hatch)
- Traversing motor & controller
- Turret-mounted batteries
- Turret ring bearing
- Armored gunner protection walls with transparent armor
- Vehicle rooftop hatch
- Gun mount pintle and ballistic shield

The GPK system is scalable, where the 400mm (16”) armored sidewall panels and the gun-mounted ballistic shield can be quickly removed for less-demanding maneuvers where a gunner can stand in the opened hatch with small caliber weapons as required. The GPK system can accept the M2 .50-caliber machine gun, the MK-19 40 mm grenade launcher, the M240 7.62 mm automatic weapon and the M-249 5.56 mm squad automatic weapon.