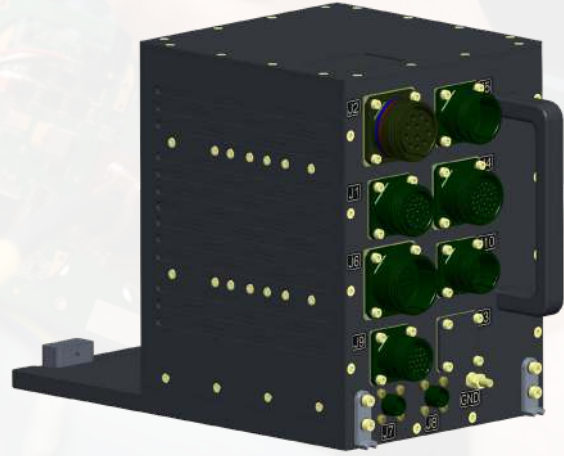


# ATK100-0000-00

# GUN TURRET CONTROL SYSTEM



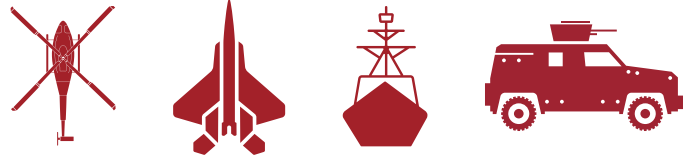
The T-129 ATAK helicopter is a development project consisting of subsystems that provide nose gun guidance and fire control.

The subsystems designed, manufactured and qualified by ANDAR as part of this program are:

- Turret Electronic Control Unit: The unit that provides the interface between the Gun and the Pilot over the MIL-STD-1553B protocol and controls the electronic/electromechanical units.
- Servo Motor: Rotary motors that move the gun turret in elevation and azimuth.
- Gun Drive: The rotary motors that feeds ammunition to the revolving gun.
- Elbow: Ammunition feeding support motor.
- Round Counter Sensor: Magnetic sensor that counts how many shots are fired.
- Firing Contact: Ignition contact that interfaces with the projectile for electronic ignition.
- Feeder Solenoid: Solenoid that opens the ammunition feeding path.
- Elevation and Training Sensors
- Harnesses

First Rotary Turret Gun subsystem developed in Turkey. The system can also be used on ground, naval and other aerial platforms

## APPLICATIONS



Manned Aerial Platforms (Helicopter, Aircraft)  
Naval Platforms, Ground Platforms

## KEY FEATURES

- > Provides remote control of a Gun Turret
- > Operation is possible at helicopter speeds up to 140 knots and the firing position is maintained under all critical flight and maneuver conditions  
Provides flexible and fixed modes of fire.
- > In case of aircraft or turret power failure the weapon returns to the fixed forward firing position and is automatically locked.
- > In-flight health monitoring
- > Operating Temperature -40°C / +55°C"

## STANDARDS

MIL-STD-810G  
MIL-STD-461F

MIL-STD-704F  
MIL-STD-1553

[www.andar.com.tr](http://www.andar.com.tr)  
[bizdev@andar.com.tr](mailto:bizdev@andar.com.tr)

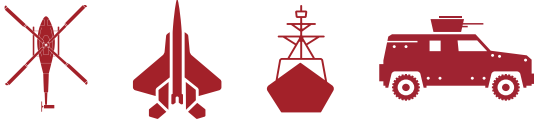
©ANDAR ELECTROMECHANICAL SYSTEMS / All Rights Reserved

**ANDAR**

# ATK100-0001-00

Turret Electronic Control Unit

## APPLICATIONS



Manned Aerial Platforms (Helicopter, Aircraft)  
Naval Platforms, Ground Platforms

## KEY FEATURES

- > Compact Design
- > MIL-STD-1553B trasmission  
Provides remote control of a Gun Turret  
Provides interface between Gun and the Pilot over the MIL-STD-1553B protocol and controls the electronic/electromechanical units  
Includes electrical firing control circuit
- > Several I/O  
Cooling System: Heatsink

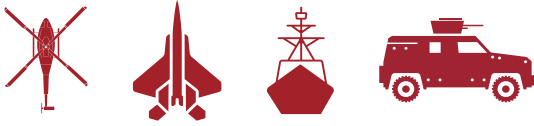
## STANDARDS

MIL-STD-810G (Environmental) MIL-STD-704F  
MIL-STD-461F (EMC) MIL-STD-1553

# ATK100-0002-00

Servo Motor

## APPLICATIONS



Manned Aerial Platforms (Helicopter, Aircraft)  
Naval Platforms, Ground Platforms

## KEY FEATURES

- > DC Burshless Motors
- > Actuate the gun turret in elevation and azimuth,  
provide accurate stabilization under firind and flight  
manouver conditions
- > Compact
- > High Performance

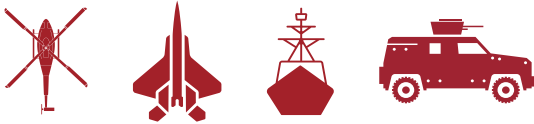
## STANDARDS

MIL-STD-810G (Environmental) MIL-STD-461F (EMC)  
MIL-STD-704F

# ATK100-0423-00

Gun Drive Motor

## APPLICATIONS



Manned Aerial Platforms (Helicopter, Aircraft)  
Naval Platforms, Ground Platforms

## KEY FEATURES

- > DC Burshless Motors
- > Feeds ammunition to the revolving gun system.
- > Compact
- > High Performance

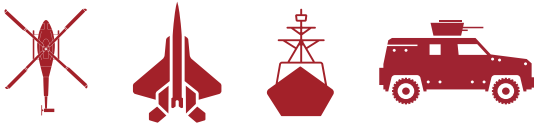
## STANDARDS

MIL-STD-810G (Environmental) MIL-STD-461F (EMC)  
MIL-STD-704F

# ATK100-0005-00

Feeder Solenoid

## APPLICATIONS



Manned Aerial Platforms (Helicopter, Aircraft)  
Naval Platforms, Ground Platforms

## KEY FEATURES

- > Solenoid that opens the ammunition feeding path
- > Allows the actuation of the clutch block and the  
consequent extraction of the rounds from the  
ammunition belt

## STANDARDS

MIL-STD-810G (Environmental) MIL-STD-461F (EMC)  
MIL-STD-704F