Hit your target
20 minutes faster

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Kearfott

On Course. On target. On Point.

Meet the team

For your precision fire needs

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Kearfott

On Course. On target. On Point.

Ensuring critical operations stay on course, on target, and on point with **precision guidance, navigation**, and **motion control systems**.

Sea | Land | Air | Space

Kearfott.com
marketing@kearfott.com

Locations
Pine Brook, NJ
Black Mountain, NC
Matamoros, México

Est. 1918

Motion Systems

Black Mountain, NC
Design, manufacture and support of precision electro-mechanical actuators, actuation systems, motors and sensors.

- 150,000+ sq. ft.
- Complete design-build capability for sensors, motors, actuators and integrated systems
- Full life cycle expertise including research, development, design, test and manufacturing
- NADCAP, AS 9100D; ISO 9001:2015 certified; 100+ years company

Actuation Systems & Components

Stabilized Sight Systems

Motors, Resolvers, RVDTs, LVDTs

Guidance & Navigation

Pine Brook, NJ
Design, manufacture, and support of precision engagement and inertial navigation systems and inertial measurement units.

- 100,000+ sq. ft.
- Integrated sensors to systems manufacturing capability
- Technical expertise in guidance and navigation
- Comprehensive in-house support including materials testing and analysis
- AS 9100D ; ISO 9001:2015 certified

Precision Engagement Systems

Inertial Navigation Systems and Inertial Measurement Units

Guidance & Navigation

Core Technologies

IMU

INS, INS/GPS

Fire Control

Line-of Sight

Battle Management System

Dismounted Soldier

How do you engage artillery targets accurately?

1. Accurate target location and altitude
2. Accurate Howitzer/Missile location and azimuth (pointing)
3. Accurate firing data to include:
   - Ammunition parameters
   - Propellant parameters
   - Fuze Type and Setting
   - Muzzle Velocity Corrections
   - Weather Data Corrections
4. Coordination of the firing units – multiple first rounds is more effective than repeated rounds.
5. Fast Response Times – hit them and move before they hit you.

Remember: If you shoot, I can locate you and take you out!

ATACS

Automated Tactical Artillery Control System

- **Rapid deployment**
- **Saves ammo**
- **High accuracy navigation & positioning**
- **Precision aiming**
- **Accelerated fire support**

1,100+ ATACS installed worldwide

ATACS

Components

- **MILNAV™** Vehicle Reference Unit with embedded GPS
  - Precision aiming and navigation
  - Precise performance in battlefield environments
- **VMS** | Vehicle Motion Sensor
- **CDU** | Commander Display Unit
- **DDU** | Diver Display Unit
- **GDU** | Gunner Display Unit
- **PCU** | Power Control Unit and Battery Backup Unit

Gunner Display

Driver Display

Power Control Unit

VMSII

Battery Backup

MILNAV™ VRU

CDU

Hit your target effectively at least 20 minutes faster than your undigitized enemy

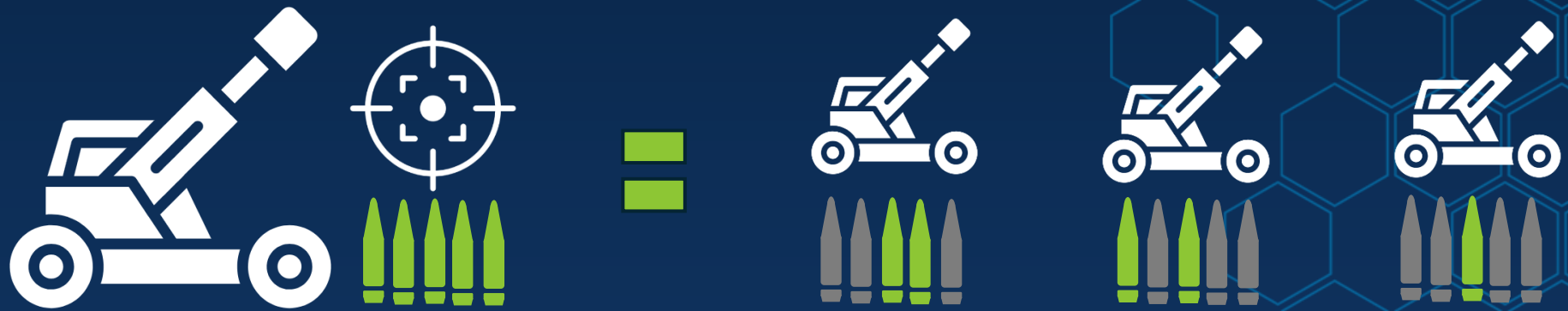
Force Multiplier

‘Shoot and Scoot’

Save Ammo

FORCE MULIPLIER

One weapon system with ATACS equals three without



- High probability to hit target on the first round
- Minimize exposure to warfighters
- Eliminate human errors

Shoot & Scoot

"Shoot and Scoot" is a term for firing artillery then quickly moving away to avoid counter-battery fire.

Fast Response Times

- Hit them and move before they hit you
- Moving-based alignment
- Ready to fire on arrival

“Our time to fire went from 20 minutes, to 1.5 minutes with ATACS!”

– Kearfott Customer

Save Ammunition

One weapon system with ATACS equals three without

- Automation and accuracy
- More rounds on target
- Less ammo = cost savings

ATACS Equipped

- Advanced navigation and aiming for any type of artillery platform
- Operates in GPS-denied environment
- Accurate pointing (<1.0 mil azimuth, <0.5 mil elevation)
- Improved accuracy saves ammunition

VS

Standard Equipped

- Based on legacy optical sight and elevation quadrant
- Position pending GPS or premeasured positions
- Pending optical sight and human factors
- Limited accuracy causes excess ammunition expenditure

Fleet Evaluation

Talk with our team today about digitizing your arsenal.

Provide the following to start the conversation:

- ✓ Models and quantity of your artillery
- ✓ Challenges & pain points
- ✓ Operational goals

THANK YOU

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