Combustible ordnance products are found in a variety of artillery applications, ranging from igniter tubes for center core ignition bag charges to the latest state-of-the-art modular propelling charge systems such as the U.S. type classified Modular Artillery Charge System (MACS). These combustible ordnance products are vital to achieving the high performance demanded in current and future artillery systems.

MODULAR ARTILLERY CHARGE SYSTEM (MACS)

Product Description

- Bi-modular system consisting of the M231 charge, used for low zone firings (charge 1 and 2) and the M232 (charge 3 through 6) for high zone firings
- A maximum of five M232 charges can be used in conventional 39 caliber guns with charge 6 reserved for 52 caliber JBMOU compliant guns
- Combustible case sets are a three piece design consisting of a case, center core igniter tube and end cap
- Components are nitrocellulose based
- Charges are color coded for identification. Surface design features also allow the charges to be differentiated by touch
- Charges incorporate a surface protectant and barrel wear reducing additives

Advantages

- Greatly reduced cost and logistics chain. Charge system is additive, eliminating the need to dispose of unused charges
- Compatible with both current and new 155mm howitzer systems, including M198 towed, M109A5 and A6 self-propelled, CRUSADER and the XM777 lightweight towed howitzer
- Increased safety during transport and loading
- Extended range
- Increased rates of fire
- User friendly
- JBMOU Compliant
- Most Insensitive Munitions (IM) compliant artillery charge available today
- Autoloader compatible
SPECIALIZED PRODUCTS AND APPLICATIONS

Product Descriptions

· Combustible rigid igniter tubes in varying lengths for center core ignition of bag charge systems
· Combustible case sets designed and produced to customer specifications for both maximum range and modular system requirements
· U.S. type classified M203A1 maximum range unitary propelling charge combustible case sets

Advantages

· Rapid, uniform burning, eliminating localized ignition and erratic gun tube pressures
· Increased gun tube life by:
  - Allowing the use of cooler burning stick propellants and anti-wear liners
  - Addition of barrel wear reducing additives to the combustible containers
· Enhanced ignition, reducing flash, blast and smoke signature
· Moisture resistance for superior performance in adverse climates

Armtec Experience

· More than 33 years experience in the development and manufacture of combustible artillery charge components
· Over 2.5 million artillery case sets manufactured and delivered
· Product design, manufacture and technical support for domestic and international customers
· International technology transfer and co-development programs

Armtec Can Provide

· Product design, development, and prototype manufacture
· Flexible production levels
· Full customer service including technical assistance and quality assurance
· International technology transfer

Armtec is a valued partner for all your combustible ordnance needs