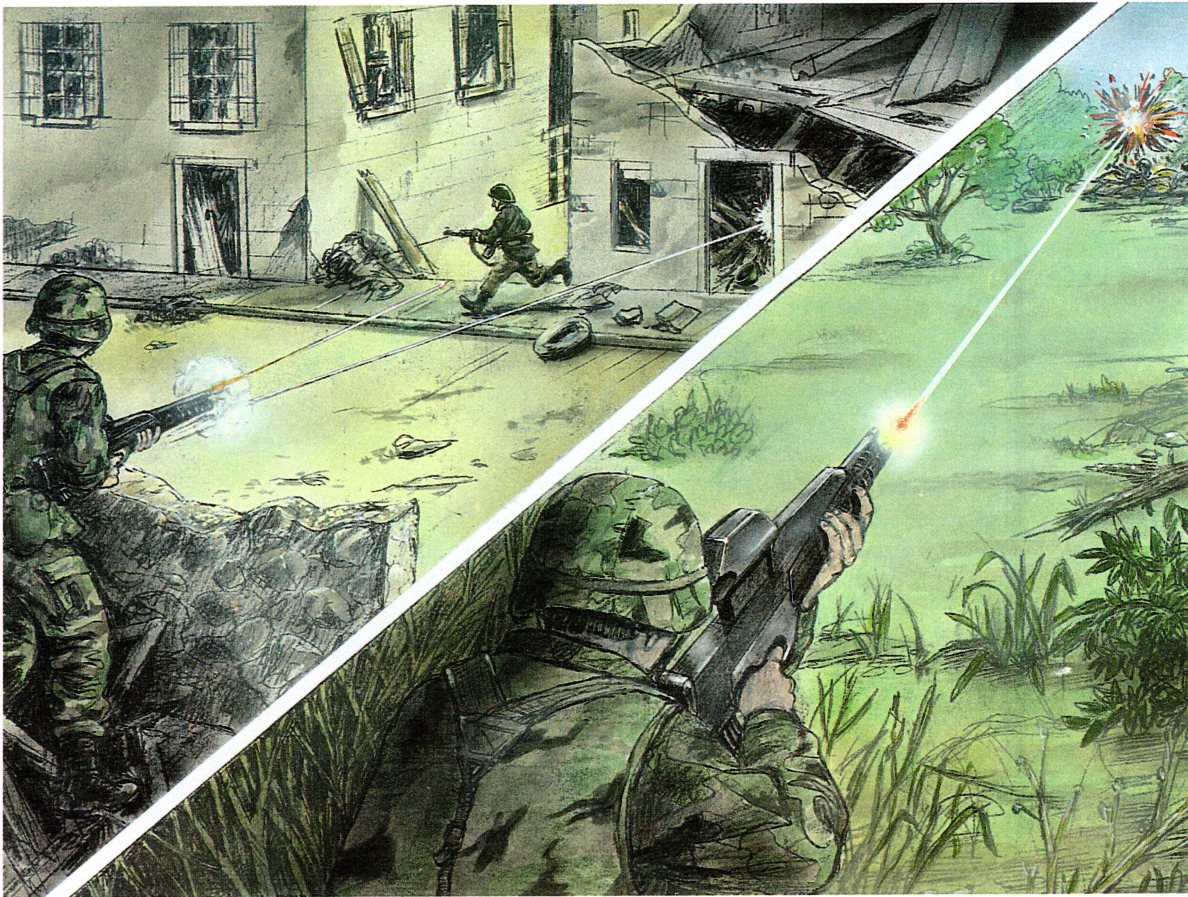


# Objective Individual Combat Weapon

Force XXI Lethality Component  
 "No Place to Hide"



The Objective Individual Combat Weapon (OICW) Advanced Technology Demonstration (ATD) provides an enhanced capability for the 21st century infantryman, with the potential to selectively replace the M16 rifle, M203 grenade launcher, and M4 carbine. Program guidelines were derived from the Small Arms Master Plan (SAMP) and Joint Service Small Arms Master Plan (JSSAMP).

OICW-ATD is managed by JSSAP and will provide superior firepower to the U.S. Army, Marine Corps, Air Force, Special Operations Command, Navy, and Coast Guard.

## Key Program Capabilities

- 500 percent increase in probability of incapacitation
- New soldier capability to defeat targets in defilade
- Effective range to 1,000 meters
- Day/night fire control; wireless weapon interface
- Substantial weight reduction
- Ergonomic, user friendly design
- Decisively violent target effects

## Technology Advancements

- Weapon recoil mitigation
- Fuzing miniaturization and accuracy
- Warhead lethality and packaging
- Target acquisition and man in the loop
- Laser ranging accuracy at extended ranges
- Extensive composite use



## Weapon Operation

The fire control system (FCS), using a laser range finder, pinpoints the precise target range at which the HE round will burst and relays this information to the 20mm ammunition fuzing system. Fragments from the bursting munition will defeat PASGT body armor and incapacitate the target. The sighting system provides full 24-hour capability by employing uncooled IR sensor technology for night vision.

## System Features

- Combination 5.56mm and 20mm HE
- Single trigger control for both barrels
- Ambidextrous weapon and switches
- Simple red dot day/night sighting system
- Laser adjustment for targets in buildings and in defilade
- Unique recoil mitigation and tactical operational awareness

## OICW-ATD Program Schedule

Phase 1 Study complete 12/94

Phase 2 System design and subsystem demonstration complete 2/96

Phase 3 Prototype system demonstration summer 1997

Phase 4/5 Hardware build/  
live-fire simulation

Fielding of first unit equipped in 2005.

## World-Class Team for the Joint Services

For the Joint Service Small Arms Program (JSSAP)/ Armament, Research, Development, and Engineering Center's (ARDEC) OICW-ATD program, Alliant Techsystems has formed a strong U.S. and international team, with combined revenues of over \$3 billion. Team members were chosen because their core businesses focus on the technologies required for successful fielding of the OICW.

## System Integration and HE Bursting Munition

The prime contractor, Alliant Techsystems, Hopkins, Minn., is responsible for total weapon system integration, testing, engineering, and prototype demonstration. This includes integrating the HE warhead and fuzing mechanism to ensure that OICW lethality and projectile accuracy objectives are achieved.

## Fire Control System

Contraves, Inc., of Pittsburgh, Penn., is responsible for development of the FCS. The company has a worldwide reputation as a designer, producer, and supplier of highly technical integrated electro-optical systems.

## Weapon

Heckler and Koch (HK) GmbH and HK Inc., Sterling, Va., have extensive weapon design, manufacturing, and customer service fielding experience. Developing high-quality, lightweight, and superior recoil mitigation systems is an HK tradition.

## KE Ammunition

Dynamit Nobel AG (DNAG) is responsible for the KE and P3I on the ammunition. The company leads the industry in environmentally safe, caseless, and combustible-cased small arms ammunition and also supports HE propulsion efforts.

Both HK GmbH and DNAG are planning to establish or license a U.S. base of supply to ensure an onshore manufacturing capability.

Each of our four companies ranks among the leaders in the world for its products. In addition, each company has extensive experience in system management and support to U.S. government and NATO programs.



*Phase III over/under prototype developed with the user, for the user*

