



Mk 45 Naval Gun Overhaul and Upgrade

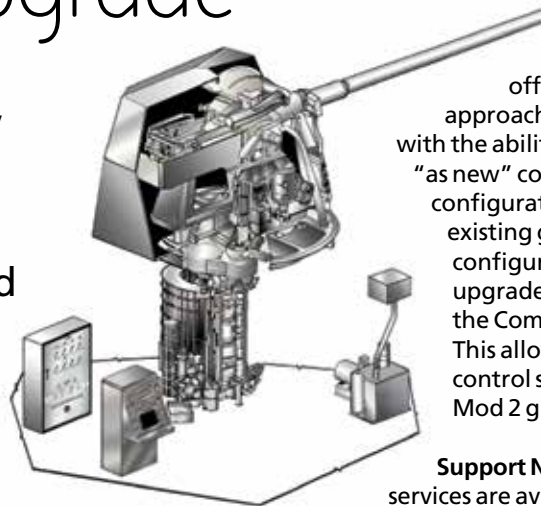
depot-level overhaul point for Mk 5, and the Center of Excellence for component and spares fabrication, as well as final system assembly and testing of new and modernized systems.

The Mk 45 Naval Gun is the lightest, most compact 5-inch (127mm) fully automatic naval gun in the world. Designed, produced, and supported by BAE Systems, it is also the most widely deployed 5-inch naval gun, with over 250 applications in the U.S. Navy and 10 international fleets.

As an original equipment manufacturer of the Mk 45, BAE Systems works in conjunction with the certified U.S. Government in-service engineering agent to repair, overhaul, and upgrade

Mk 45 systems for the U.S. Navy and international fleets.

Depot Overhaul – The BAE Systems facility in Louisville, KY, is the U.S. Navy



Performance Options – BAE Systems offers a range of flexible approaches to Mk 45 modernization with the ability to refurbish guns to “as new” condition for Mods 0-2 configurations, or to fully upgrade existing guns to the Mod 4 configuration. A cost-effective upgrade option is integration of the Common Control System (CCS). This allows use of the Mod 4 control system for a refurbished Mod 2 gun.

Support Network – Mk 45 support services are available nationwide at our fleet support facilities in Norfolk, VA; Mayport, FL; and San Diego, CA. BAE Systems Fleet Support specialists also provide Mk 45 support onboard ships located anywhere in the world. Full life-cycle support is supplemented by the worldwide logistics system supporting the U.S. Navy.

Specifications

5-inch 54-Caliber Mk 45 Mods 0-2

Loading-pointing-operation Fully automatic

Ready service complement 20 rounds

Projectile weight 70 lbs./31.7 kg

Muzzle velocity of service round 2,650 ft/sec
807.7 m/sec

Gun system

(w/o fluids/lower hoist) 49,000 lbs/22,226 kg

Train

Preset limits +170 from stow

Velocity 30°/sec

Acceleration 60°/sec²

Elevation

Preset limits -15°, +65

Velocity 20°/sec

Acceleration 40°/sec²

Ship power supply 440 volts 60-Hz 3-phase

Maintenance and Availability

Operability tests and scheduled maintenance
(average daily) 1.6 hours

Regunning tim 1.0 hours

Availability (inherent) 99.6%



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