

NSM-AL



KONGSBERG

AIR LAUNCHED NAVAL STRIKE MISSILE

NSM-AL

DESIGNATION : NSM-AL

Weight and Dimensions

- Overall length:
156 in / 3960 mm
- Launch weight:
903 lb / 410 kg
- Warhead weight:
264 lb / 120 kg
(Equivalent high
explosive weight
220 lb / 100 kg)

Guidance

- Inertial with GPS assist
- Programmable Flight Path
- Passive IR homing
- ATR Autonomous Target
Recognition
- Terrain correlation for
overland flight

Flight

- Cruise speed:
High subsonic
- Operational range:
> 180 km

The Naval Strike Missile for helicopter and UAS application, NSM-AL, is a long range cruise missile for use against targets at sea and ashore. This fire-and-forget missile features stand-off capability from all known naval air defense systems, ensuring own platform safety. NSM-AL is insensitive to countermeasures, has very low RCS, employs superior sea skimming features, enabling it to destroy high-value well-defended targets. The missile combines inertial guidance with GPS assistance (if available), and a high-resolution, dual band, intelligent imaging infrared (I3R) seeker. The missile seeker will autonomously locate, recognize, classify and home on target.

Prior to executing a strike mission, an advanced off-board mission planning tool allows for route generation through numerous waypoints, terrain correlation for overland flight, and target recognition criteria down to ship class specificity. These data are stored in the missile prior to lift-off. The operator is free to override the pre-planned flight path by selecting from a number of generic missions inherent in the missile.

If a target of opportunity is identified during regular patrol operations, the operator will also select from these generic missions.

The missile utilizes MIL-STD-1760 electrical interface and is drop-launched from a standard BRU-14 bomb rack.



Naval Strike Missile - AL adapted on a helicopter



Fire-and-forget missile features stand-off capability from all known naval air defense systems.

MEETING THE NAVAL DEFENCE CHALLENGES OF TOMORROW

The modernization of the Royal Norwegian Navy resulted in a requirement for a long range missile deployable in a global setting and designed to counter the future threats. These requirements included the ability to approach the target undetected and automatically recognize the target while staying immune to counter measures.

NSM is currently contracted by Norway, Poland, Malaysia, USA (USN and USMC), Germany, Canada, Australia, UK, Spain and Netherlands.

TECHNICAL DATA

Service Compability	<ul style="list-style-type: none"> ▪ Comply with MIL-STD-1760 and UAI, 14 inch lug spacing ▪ JMPS and CMBRE compatible for programming and test ▪ Minimum maintenance
Destructive Effect in target	<ul style="list-style-type: none"> ▪ Programmable, precise hit point ▪ Selectable fuze setting to ship class ▪ Titanium alloy warhead
Extreme Counter-Counter Measures	<ul style="list-style-type: none"> ▪ Insensitive to jamming and IR decoys ▪ INS navigation, assisted by, but not dependent on GPS ▪ Constantly Changing Acceleration ▪ High sustained agility
Automatic Target Recognition (ATR)	<ul style="list-style-type: none"> ▪ Recognition to ship class prior to attack
Undetected Approach	<ul style="list-style-type: none"> ▪ All passive during flight ▪ Stealth by design ▪ Super sea skim
Sophisticated off-board Mission Planning tool	<ul style="list-style-type: none"> ▪ Terrain correlation for overland flight ▪ 50+ selectable way-points in space/time

