

NARWHAL®

Naval remote weapon systems

Building on the experience gained with ultra-light naval mounts for small craft (15A/15B) and with technologies implemented for turreted cannon for helicopters (THL 20/THL 30), Nexter Systems is developing a remote-controlled naval gun mount known as NARWHAL® (NAval Remote Weapon, Highly Accurate, Lightweight) in the 20 mm configuration.



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MISSION

This system is particularly designed for use in light ships with very high manoeuvrability for monitoring and close-in combat actions but may also be suitable for heavier tonnage ships.

In its basic configuration, the NARWHAL® consists of a gyro-stabilised mounting armed with a 20 mm cannon, a day camera and a fire-control system which is remotely-controlled from a control panel enabling system operation, target acquisition and tracking and fire opening by the operator.

The modular design of the system enables to add to this configuration a thermal camera, a laser rangefinder and a target automatic tracking video system. Moreover, the NARWHAL® can be interfaced with the monitoring and fire control system equipping the ship.

Integration can be easily carried out whatever the carrier ship (very lightweight compact gun mount, low mechanical constraints, small turning radius, digital communication interfaces).

NARWHAL® 20A or NARWHAL® 20B models are offered to customers with the various ammunition standards 20 x 102 mm, 20 x 139 mm.



SPECIFICATIONS

Mount	NARWHAL® 20A	NARWHAL® 20B
Armament	20 M 621	20 M 693
Feed system	Single	Dual
Ammunition standard	20 mm x 102	20 mm x 139
Average Firing rate (rds/min)	750	740
Ammunition stowage	200	200
Sighting	Gyro-stabilised + Daylight camera + Infrared camera Laser rangefinder and video autotracker (optional)	
Laying	Remotely-operated or automatic mode	
System accuracy (mrad)	< 1	
Digital interface	Ethernet: RS 422	
Azimuth	±160°	± 160°
Elevation	-15°/+50°	-15°/+50°
Slewing rate (°/s)	> 60	> 60
Weight with ammunition (kg)	< 350	< 400
Power supply	200 ou 400 V/ 50 Hz – 3 phases	

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