Nemesis 5000

MARINE ANTI-PIRACY SYSTEM

Description

The Nemesis 5000 machine is a high pressure vessel boarding deterrent and is driven by seawater at pressures of between 3.5 and 5 bar from the vessel's fire water system. Installation does not require any class approval as it does not affect the design or operation of the fire system.

The system works by producing high pressure water jets which, when multiple machines are used, creates a moving curtain of water around the ship. The machine is designed to only send water below the horizontal, this ensures the best use of available water. Machines are mounted over the side of the ship either from the hand rail or the fish plate, approximately 25m apart around the vessel.

Benefits

- Visual and physical non lethal deterrent
- Un-manned, so no risk to crew
- Uses existing ship utilities
- Easy to install and operate
- Very low maintenance
- Utilises latest technologies to offer a high level of protection with minimal expenditure
- Low lifecycle costs
- High Efficiency



Key Technical Points

- **6 Nozzles -** give more effective jet coverage and reduce possibility of boarding
- **Unique reaction drive system -** no gears or turbine, minimum moving parts, lower maintenance costs
- **Twist lock nozzle fittings -** aid quick and easy installation
- **Light weight -** aids quick and easy installation
- **Compact size -** aids quick and easy installation
- **Storage case option -** reduces risk of damage and loss when stored
- **Low pressure start -** will operate at low pressure while giving an effective jet
- **All components in 316L S.Steel -** resistant to marine environment
- **Machines handed Port and Starboard -** gives more effective jet during operation

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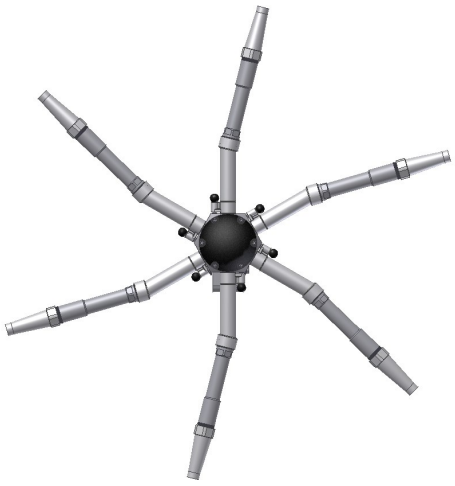
Technical Information

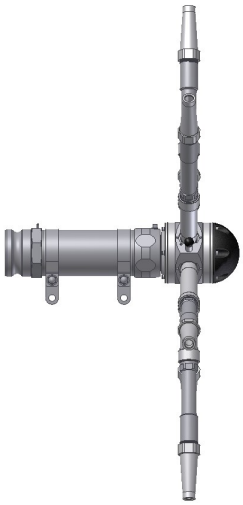
Operating Pressure	3 to 5 bar	**Operating Flow**	48 m³/hr
Number of Nozzles	6	**Nozzle Size**	16mm
Weight	11.5kg	**Dimensions**	350mm x 220mm
Materials	316L S.Steel, Viton	**Water Connection**	3” Camlock
Body / Head / Nozzles	316L S.Steel	**Mounting Bracket**	316L S.Steel

Mounting Bracket and Water Supply Hose

One mounting bracket is supplied per machine and is fully adjustable to ensure the best water jet positioning and overlap. The standard brackets can be supplied to fit a handrail or fish plate. However special mounting brackets can be supplied where required.

Water supply hose is supplied complete with connections to the ships fire valves. The hoses are of the layflat design for ease of operation and storage. Hose lengths are supplied to suit each vessels requirements. It is important that unique hoses are supplied in order to ensure minimum losses between the fire valve and the machine and also to reduce the amount of hose running across the deck.





Typical Scope of Supply

1x Nemesis 5000 machine with 6 x 16 mm nozzles

1x User operation and maintenance manual

1x Adjustable mounting bracket for use with handrail or fish plate

1x Layflat hose for ships connection

1x Storm proof hard storage case for the Nemesis machine

Information Required to Supply Quote

Fire system details with pump information (pressure and flow) of all available fire water, including fire system P&ID.

Deck general arrangement drawing and full details of fire hydrant valve positions.

Type of valve connections on hydrants.

Freeboard sizes.

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