BOS Power

BUILT FOR NAVAL VESSELS

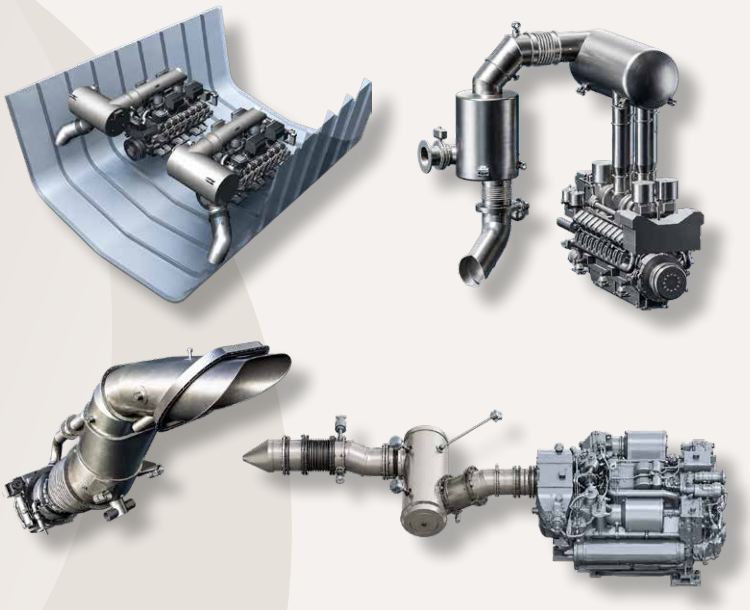
Mecmar by BOS Power

ENGINEERED FOR NAVAL PERFORMANCE

Mecmar by BOS Power designs and delivers complete seawater injected exhaust gas systems for marine diesel engines and gas turbines.
The systems are engineered specifically to meet the demanding requirements for any navy vessels. Every system is tailored for optimal performance, reliability, and survivability. BOS Power provides comprehensive engineering documentation for every installation, including back-pressure calculations and CFD, shock and vibration assessments, ensuring full compliance with naval standards and requirements.

ADVANTAGES

- **Reduced Signature:** Seawater cools the exhaust gas to ~60°C, cutting IR and acoustic signature — a proven contributor to stealth designs.
- **Compact & Lightweight:** Titanium and stainless steel assemblies save topside space and weight versus conventional dry exhaust systems.
- **Engineered to Fit:** Every installation is verified and matched to the vessel.
- **Crew & Vessel Safety:** Low surface temperatures remove a major ignition source, reducing fire and explosion risk in machinery spaces.
- **Flexible Outlet Placement:** Outlets exit above or below the waterline, through the side or transom — freeing topside space and clear sightlines.



ONE PARTNER, FULL DELIVERY

BOS Power is your Nordic point of contact for Mecmar exhaust gas systems — from specification and engineering through installation, commissioning and in-service support, backed by BOS Power's own service network.

PERFORMANCE DATA	
NOx Reduction *with SCR*	80 – 98 %
Hydro Carbon Reduction	80 – 90 %
Soot Reduction	20 – 30 %
Sound Attenuation	20 – 35 dB(A)
Thermal Signature	~60°C

1.

SEAWATER INJECTION
Standard system cools and scrubs the exhaust gas with seawater. Exhaust outlet above or below the waterline.

2.

SELECTIVE CATALYTIC REDUCTION
Optional integrated SCR-system reduces NOx to meet current and future regulations.

3.

WASTE HEAT RECOVERY
Optional economiser or boiler integrated into the hot section to maximise energy efficiency.