

Location: Korea

Service: Patrol Boats

Waterjet Model: HM811 & HM651



100 Tonne Patrol Boat

Korean Coast Guard Patrol Boat Fleet Choose HamiltonJet

TYPE:

Patrol & Rescue boats

DESIGNER:

Kang Nam Shipbuilding, Busan, Korea

OWNER/OPERATOR:

Korean Coast Guard,
Incheon, Korea

HamiltonJet DISTRIBUTOR:

Dong Kang M-Tech Co. Ltd,
Seoul, Korea

The Korean Coast Guard's fleet of waterjet-powered patrol boats has grown rapidly in recent years. Both the highly regarded 50T vessel and the new 100T flagship vessel utilise twin HamiltonJet propulsion. And with more than 60 of these vessels in service, the KCG is the world's most prolific user of HamiltonJet HM Series waterjets.

Formed in 1953, the Korean Coast Guard is tasked to preserve national safety and security, and assist in and prevent maritime accidents.

The 50T and 100T vessels are designed to carry out both patrol and rescue duties, as well as assist with environmental protection and pollution control, maritime traffic safety and international affairs. Operating conditions can extend to

Seastate 4, with the vessels patrolling up to 30km offshore and for up to 5 days at a time.

Designer Kang Nam Shipbuilding has designed more than 600 vessels including a wide range of research, naval and patrol boats. The 50T vessels were built by four different boatyards to ensure the delivery schedule was achieved.

Both the 50T and 100T vessels use HamiltonJet's MECS electronic control system to operate the waterjets' Steering and Astern deflectors, engines' RPM and gearboxes from two separate control stations.



50 Tonne Patrol Boat



HamiltonJet
www.hamiltonjet.co.nz

KCG 100 Tonne Patrol Boat

**CLASS:**

100 Tonne Patrol Boat

LENGTH:

30.30 metres

BEAM:

6.10 metres

CONSTRUCTION:

Aluminium

SPEED:

45 knots

WATERJETS:

Twin HamiltonJet Model HM811

ENGINES:

Twin MTU diesel engines

Model 16V 4000, each

2720kW (3698hp) @ 2100rpm

GEARBOXES:

ZF 7550 2.241:1

DESIGNER:

Kang Nam Shipbuilding, Busan, Korea

BUILDER:

Kang Nam Shipbuilding, Busan, Korea

OWNER/OPERATOR:

Korean Coast Guard, Incheon, Korea

HamiltonJet DISTRIBUTOR:

Dong Kang M-Tech Co. Ltd,

Seoul, Korea

The Korean Coast Guard's flagship vessel was designed for a maximum speed of 45 knots using twin HM811 waterjets and 3600hp MTU engines.

The high speed performance of the 100T vessel make it a formidable weapon in the KCG's operations against smugglers, pirates and other naval threats, and mean it can respond

quickly in emergency rescue and security situations. Belying their size the boats are very nimble and manoeuvrable, with each vessel accommodating 16 crew.

Several more 100T class boats are scheduled to join the KCG fleet within the next couple of years.

KCG 50 Tonne Patrol Boat

**CLASS:**

50 Tonne Patrol Boat

LENGTH:

28.00 metres

BEAM:

4.80 metres

CONSTRUCTION:

Steel

SPEED:

32 knots

WATERJETS:

Twin HamiltonJet Model HM651

ENGINES:

Twin MTU diesel engines

Model 16V 2000 M90, each

1323kW (1799hp) @ 2300rpm

GEARBOXES:

ZF 3650 2.027:1

DESIGNER:

Kang Nam Shipbuilding, Busan, Korea

BUILDERS:

SamWon Shipbuilding, Jeonbuk, Korea

Sam Kwang Shipbuilding, Incheon, Korea,

Il Heung Shipbuilding, Mokpo, Korea,

Kang Nam Shipbuilding, Busan, Korea

OWNER/OPERATOR:

Korean Coast Guard, Incheon, Korea

HamiltonJet DISTRIBUTOR:

Dong Kang M-Tech Co. Ltd,

Seoul, Korea

The fleet of 50 Tonne patrol boats has grown rapidly over recent years, quickly becoming the mainstay of the KCG operation. The first two vessels were launched in 2002, five more were built in 2003, a further 15 in 2004, 20 in 2005 and 22 in 2006.

Its steel-hull design has an excellent reputation for sea keeping and performance, with the twin HM651 waterjets offering additional benefits such as fast acceleration, high and

low speed manoeuvrability, safety and shallow draught.

Each boat is manned by a crew of 9.



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