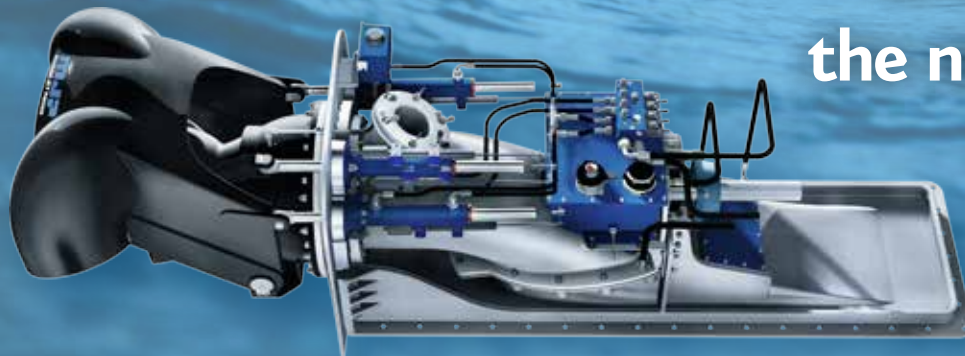


MJP NEWS

June 2016

A newsletter from Marine Jet Power



MJP HYBRID
A frontrunner for
the next generation
waterjets!

Innovation that is shaping the future

We now see the results from our latest venture – the introduction of the MJP Hybrid waterjet – and it is overwhelming. The MJP Hybrid combines the very best characteristics of the revolutionary MJP DRB series with the highly respected MJP Ultrajet series. A frontrunner for the next generation waterjets.

The idea to take the best from our DRB and Ultrajet series and make a hybrid that is optimized for high-speed applications has been highly successful. We have succeeded in delivering a product with a unrivalled combination of high performance and competitive pricing.

The replacement of axial flow waterjets on Norwegian SAR boats is a good example of this. It also provides a unique comparison between axial flow and mix flow jet performance. Speed was increased by a stag-

gering six knots – simply by replacing existing jets with the new Hybrid 300. As a bonus, noise levels in the wheelhouse dropped from 70 dB(A), to less than 64 dB(A) at a cruising speed of 34 knots.

The demand for this type of product is growing, and the response from our customers has been very positive. We currently have orders for Hybrid 300s, 350s and 500s. New sizes are already planned to further expand the range to meet the considerable demand that exists for small, high-performance waterjets with an affordable price tag.

MAGNUS SÖRENSON
Executive Vice President
GLOBAL SALES & MARKETING



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A force to trust

MJP
MARINE JET POWER



Italian Fast Fighting Craft demonstrator under construction

BAGLIETTO S.p.A. is one of the most famous Italian shipyards, and has built a considerable number of naval vessels over the years.

Their recent acquisition by the Gavio Group led to the creation of the Baglietto Navy brand, which offers a wide range of military and governmental products. The latest addition in the portfolio is the **MNI 15**.

The first vessel of the series will be launched in July.

MNI 15 is a multi-purpose nautical platform built in aluminium, widely customizable for different missions such as search and rescue, logistics, defence, patrol, prevention of human trafficking, drones, etc.

MJP Hybrid 300 were selected as the vessel's main propulsion thanks to its superior performance, best acceleration and durability characteristics after a long and detailed design stage.

FFC fast fighting craft, the version under construction at Baglietto, is a troop transport vessel that hosts up to four crew members and 24 landing troops. Entrance/exit is via a bow ramp or rear access. The vessel features a reinforced prow for beaching operations, ballistic protection and even an anti-roll system.

MNI Ambulance is designed to give medical assistance for up to two patients simultaneously. Stretchers can be loaded from the bow and stern. It is also possible to airlift patients directly from the aft cockpit. The small size of the vessel allows transport by road, or launch from a mother ship.

MNI Drone, is an unmanned craft, with varying degrees of navigational autonomy: either under remote control by a human operator, or fully or intermittently autonomously, by onboard computers.

MNI Fire Rescue features two long-range water cannon, ladders and boarding life rafts.

MNI Missiles feature a naval anti-ship weapon systems with an effective range in excess of 30km.

MNI Patrol is equipped with two jet ski ramps for quick release and hauling through rollers and winches.

BUILDER: Baglietto S.p.A., Italy

LOA: 15.83 m

BOA: 3.60 m

DRAFT: 0.80 m

DISPL: 18 000 kg

ENGINE POWER: 2 x 625 kW

SPEED: 45 knots

WATERJETS: MJP Hybrid 300

MJP Hybrid 300 on Norwegian SAR boats

| |
|-----------------------------------|
| BUILDER: SWEDE SHIP MARINE |
| LOA: 14.30 m |
| BOA: 4.10 m |
| DRAFT: 0,85 m |
| DISPL: 12 500 kg |
| ENGINE POWER: 2 x 368 kW |
| SPEED: 40 knots |
| WATERJETS: MJP Hybrid 300 |



The RS 154 is the first in a series of 14-meter Fast Rescue Craft for the Norwegian Society for Sea Rescue (RS).

“This project offers a unique comparison between axial flow and mix flow waterjet performance,” says Joakim Adamsson, Product Manager at MJP. “It shows what the Hybrid is all about and proves we have succeeded with our new ideas,” he adds.

The design comprises a 11.7-meter hull in FRP construction according to DNV HSLC rules, fitted with a resiliently mounted wheelhouse, equipped for Search and Rescue missions.

The boat, which was originally delivered in 2014 by Swede

Ship Marine, has now been upgraded with new MJP waterjets that feature integrated Humphree interceptors. Powered by Iveco N67 M56 diesel engines, the two MJP Hybrid 300 waterjets develop top speeds in excess of 40 knots.

Results from sea trials have been fantastic. Top speed is increased by 6 knots – simply by replacing existing jets with the new hybrid design. As a bonus, noise levels in the wheelhouse dropped from 70 dB(A) to less than 64 dB(A) at cruising speeds of 34 knots.

The three other boats in the same series will also be upgraded.



| |
|-------------------------------------|
| BUILDER: MARITIME PARTNER AS |
| LOA: 14.99 m |
| BOA: 4.90 m |
| DRAFT: 0.90 m |
| DISPL: 18 700 kg |
| ENGINE POWER: 2 x 312 kW |
| SPEED: 32 knots |
| WATERJETS: MJP Hybrid 300 |

MJP Hybrid 300 on ALUSAFE 1500 MPV

Alusafe 1500 MPV is a genuine multi-purpose work boat designed and manufactured by Maritime Partner AS in Norway for several kinds of operations in heavy weather and sea conditions.

The hull is a fully planning mono hull with a deep V-shape built in aluminium, and fitted with air tight tanks. The pilothouse is designed for a crew of two.

The boat is capable to handle oil spill response duties, fire-fighting operations, rescue-diving missions, maintenance tasks on navigational installations and much more. The owners, the Port Authority of Aalesund, describe the vessel as their “Swiss army knife”, fully meeting all their requirements.

The state-of-the-art MJP Hybrid 300 waterjets in twin arrangement give the vessel superior maneuverability and an impressive top speed of 32 knots.

MJP CSU 650 on Wind Farm Support Vessel helps reduce electricity costs

Surface effect ships display some useful attributes for the offshore wind sector



The series of WaveCraft Offshore Service Vessels, built by Umoe Mandal AS in Norway, is becoming a real game-changer for Wind Farm Support Vessel (WFSV) market thanks to their impressive performance.

The WaveCraft is a Surface Effect Ship (SES) that uses an air cushion between its catamaran hulls to lift 80 per cent of the vessel out of the water. The shallow draught that this creates gives the vessel ready access to operational areas.

The operators, Tidal Transit Ltd, claim that managing the pressure of the air cushion according to wave height allows for smoother voyages, and provides greatly improved access to turbines – up to wave heights of 2.5 metres, or even higher in a swell.

High-efficiency MJP CSU 650 mixed flow waterjets enable the vessel to travel at speeds of more than 50 knots while maintaining a low fuel consumption resulting in a range of more than 700 nautical miles.

BUILDER: UMØE MANDAL AS

LOA: 27.2 m

BOA: 10.0 m

MIN. DRAFT: 0.7 m

CARGO CAP: 4 ton

ENGINE POWER: 2 x 1440 kW

SPEED: 50+ knots

WATERJETS: MJP 650 CSU DD

MJP EXHIBITIONS 2016

MACC: Baltimore, U.S., 8–9 June • **SEAWORK:** Southampton, UK, 14–16 June
SMM: Hamburg, Germany, 6–9 September • **EURO NAVAL:** Paris, France, 17–21 October
INTERNATIONAL WORKBOAT SHOW: New Orleans, U.S., 30 November – 2 December

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