



Certificate No:
TAM000018H

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Waterjet

with type designation(s)
Omega 42

Issued to

ALAMARIN-JET OY
Härmä, Finland

is found to comply with

Det Norske Veritas' Rules for Classification of High Speed and Light Craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.
The approval is valid for propulsion duty with rating as given on page 2.

Issued at **Høvik** on **2021-05-14**

This Certificate is valid until **2026-05-13**.

DNV local station: **Finland CMC**

for **DNV**

Approval Engineer: **Geir Olav Moen**

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Oddvar Deinboll
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

Waterjet unit with built in steering and reversing system with 4-, 5- or 6-bladed impeller.

Application/Limitation

The approval is valid for propulsion with the following rating:

Input power	1500 kW
Impeller speed	2300 rpm
Torque at max. rpm	6230 Nm
Maximum torque	6230 Nm

Marking of product

The product shall be marked with the manufacturer's name or trademark and type designation.

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years after the issue date of the Type Approval Certificate to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, periodical Assessment shall be carried out randomly at these companies.

Other conditions

The following are not covered by this certificate:

- Connection to hull (yard responsibility)
- Connection to driving unit
- Remote control system
- Controls and alarms, including set points and delays
- Hydraulic cylinders for steering and reversing
- Hydraulic system for steering and reversing
- Flexible hoses shall be type approved

END OF CERTIFICATE