

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Reduction Gear for Propulsion**with type designation(s)
HG 300/HG 300S series

Issued to

HEIMDAL PROPULSION NORWAY A/S
Molde, Norway

is found to comply with

DNV GL rules for classification – High speed and light craft
DNV GL rules for classification – Ships**Application :****The approval is valid for propulsion and auxiliary duty.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Input torque** **see page 2****Input speed** **see page 2****Reduction ratio** **see page 2**Issued at **Høvik** on **2017-08-31**This Certificate is valid until **2021-06-30**.for **DNV GL**DNV GL local station: **Kristiansund N**Approval Engineer: **Nadine Grace Mosteiro**
Halvorsen.....
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.



Product description

Single stage reduction gear.

Application/Limitation

The approval is valid for propulsion and auxiliary duty with the following ratings:

Type	Ratio	Input torque Nm	Input power kW	Max.applic. factor kA	Input speed RPM	Face width mm
HG330	3,03<1	4 456	420	1,4	900	160
HG335	3,50<1	4 441	465	1,4	1 000	160
HG340	4,08<1	4 456	560	1,4	1 200	160
HG340	4,08<1	4 453	746	1,4	1 600	160
HG346	4,57<1	4 408	600	1,4	1 300	170
HG350	5,05<1	3 565	560	1,4	1 500	160
HG354	5,35<1	3 551	595	1,4	1 600	155
HG360	6,06<1	2 998	565	1,4	1 800	180
HG300S	4,19<1	4 935	633	1,4	1 225	165

Type Approval documentation

Approved drawings mentioned in covering letter of 11.12.86.

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years 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.

END OF CERTIFICATE