DNV·GL

Certificate No:
TAM0000134
File No:
714.70
Job Id:
262.1-011296-3

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Toothed Coupling

with type designation(s)
MSSH

Issued to
Kyushu Hasec Co., Ltd.
Nogata City, Fukuoka Pref., Japan

is found to comply with
DNV GL rules for classification – Ships
DNV GL rules for classification – High speed and light craft

Application :

The approval is valid for auxilliary duty.

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.
Nominal torque **See page 2**

This Certificate is valid until **2024-06-13**.

Issued at **Høvik** on **2019-06-14**
DNV GL local station: **Hiroshima** for **DNV GL**

Approval Engineer: **Terje Sollie**

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.

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Product description

Crowned, surface hardened tooth (plasma nitrided), horizontal type gear couplings.

Application/Limitation

Typical field of application: Turbine to generator.

Approved torques:

Type	*Max. Continuous Torque [Nm]*
MSSH-149	2410
MSSH-167	4020
MSSH-187	6570
MSSH-204	9190
MSSH-230	12712
MSSH-256	20001
MSSH-287	30400
MSSH-325	41596
MSSH-362	60011

The approval is valid for unidirectional load with a maximum angular misalignment of 0,5 deg. per coupling half and a maximum application factor, K_A of 1,15.

Marking of product

The product is to be marked with manufacturer's name and 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.

Other conditions

The following are to be approved case-by-case for each delivery:

- Connections to adjacent shafts

END OF CERTIFICATE