



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000003V
Revision No:
3

This is to certify:

That

INNO STEEL CO., LTD.

**62 Angok-ro, 333beon-gil, Hallim-myeon, 50852 Gimhae-si, Gyeongsangnam-do,
Republic of Korea**

is an approved manufacturer of
Steel Forgings

in accordance with

DNV rules for classification – Ships

and the following particulars:

Application area	Forgings for shafting and machinery
Steel type	Carbon and carbon-manganese Alloy
Forging method	See page 2
Max. Weight	12 000 kg
Heat treatment condition	See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.
Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-08-23**

for **DNV**

This Certificate is valid until **2025-06-30**.

DNV local station: **Gimhae Station**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Forgings for shafting and machinery

Steel type	Grade	Forging method ¹⁾	Max. weight [kg]	Delivery condition ²⁾
C and C-Mn	NV C400U, NV C440U, NV C480U, NV C520U, NV C560U, NV C600U, NV F640U, NV F680U, NV F720U, NV F760U	OD, CD	12 000	N, QT
Alloy	NV F600A, NV F700A, NV F800A, NV F900A, NV F1000A, NV F1100A	OD, CD	12 000	N, QT

Remarks:

- ¹⁾ OD: Open die forging
 CD: Closed die forging
²⁾ N: Normalised
 QT: Quenched and tempered

Special condition:

- Heat treatment is subcontracted to DNV approved heat treatment workshop