

# APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Hekimoğlu Döküm Sanayi Nakliyat ve Ticaret A.S.**  
**Trabzon, Turkey**

is an approved manufacturer of  
**Iron Castings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

<b>Iron type</b>	<b>Grey cast iron, Nodular cast iron</b>
<b>Casting method</b>	<b>Sand casting</b>
<b>Max. Weight</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-04-09**

for **DNV GL**

This Certificate is valid until **2023-04-08**.

DNV GL local station: **Istanbul**

Approval Engineer: **Stefan Röhr**

**Thorsten Lohmann**  
**Head of Section**

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **263.11-010630-1**  
Certificate No: **AMMM00002R9**

## Particulars of the approval

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### Cast iron

Iron type	Grade	Casting method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
Grey	200	SC	350	AC
	250	SC	350	AC
	300	SC	350	AC
Nodular	VL NCI-2	SC	250	AC
	VL NCI 370	SC	250	AC
	VL NCI 400	SC	250	AC
	VL NCI 500	SC	250	AC
	VL NCI 600	SC	250	AC
	VL NCI 700	SC	250	AC
	VL NCI 800	SC	250	AC

Remarks:

- 1) SC: Sand casting
- 2) AC: As cast
- 3) Including equivalent grades to other standards