

**APPROVAL OF MANUFACTURER
CERTIFICATE**Certificate No:
AMMM00001NJ**This is to certify:**

That

**Hermann Reckers GmbH & Co. KG
Eisengießerei & Maschinenfabrik
Rheine-Mesum, Germany**is an approved manufacturer of
Iron Castingsin accordance with
DNV GL rules for classification – Ships

and the following particulars:

Iron type(s)	Grey Cast Iron, Nodular Cast Iron
Max. weight	140 kg
Remarks	See particulars

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 **2017-09-13**This Certificate is valid until **2020-09-12**.DNV GL local station: **Essen**Approval Engineer: **Stefan Röhr**

for **DNV GL**
Digitally Signed By: Wildhagen, Christian
Location: DNV GL Hamburg, Germany
Signing Date: 2017-09-14 , on behalf of

**Thorsten Lohmann
Head of Section**

Job Id: **263.11-003742-2**
Certificate No: **AMMM00001NJ**

Particulars of the approval

Cast Iron

Iron type	Grade	Casting method ¹⁾	Max. weight [kg]
Grey	EN-GJL-150 ²⁾	SC	140
	EN-GJL-200 ²⁾		
	EN-GJL-250 ²⁾		
	EN-GJL-300 ²⁾		
VL NCI-1			
VL NCI-2			
VL NCI 370			
VL NCI 400			
VL NCI 500			
VL NCI 600			
VL NCI 700			
VL NCI 700			
EN-GJS-350-22-LT ³⁾			
EN-GJS-400-18-LT ³⁾			
EN-GJS-400-18 ³⁾			
EN-GJS-400-15 ³⁾			
EN-GJS-450-10 ³⁾			
EN-GJS-500-07 ³⁾			
EN-GJS-600-3 ³⁾			
EN-GJS-700-2 ³⁾			
EN-GJS-800-2 ³⁾			
Nodular			

Remarks

1. SC: Sand Casting
2. According to EN 1561
3. According to EN 1563