



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM0000002**  
Revision No:  
**2**

This is to certify:

That

**HandyTube Corporation**  
**124 Veeco Boulevard**  
**Camden, DE 19934,**  
**USA**

is an approved manufacturer of  
**Steel Pipes and Fittings**

in accordance with  
**DNV rules for classification – Ships**  
**DNV-OS-B101 – Metallic materials**

and the following particulars:

<b>Product</b>	<b>Pipes</b>
<b>Application area</b>	<b>Austenitic and ferritic-austenitic steel pipes,</b>
<b>Steel type</b>	<b>Austenitic stainless,</b>
<b>Manufacturing method</b>	<b>Seamless</b>
<b>Max. outer diameter</b>	<b>See page 2</b>
<b>Max. wall thickness</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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-09-14**

This Certificate is valid until **2025-06-23**.

DNV local station: **New York**

for **DNV**

Approval Engineer: **Stefan Röhr**

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**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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.



## Particulars of the approval

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### Austenitic stainless steel pipes (seamless)

Steel type /grade <sup>3) 4)</sup>	Manufacturing method <sup>1)</sup>	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Austenitic stainless	HFS/CFS	25.4	3.17	SHT

Remarks:

- 1) HFS: Hot finished seamless; CFS: Cold finished seamless
- 2) SHT: Solution Heat Treated (solution annealing)
- 3) Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Part 4, ISO 9330 Part 6, EN 10216 Part 5, EN 10217 Part 7, ASTM A269, ASTM A312, ASTM A358, ASTM A789, ASTM A790, ASTM A928 or JIS G3459
- 4) Pre-material from DNV approved manufacturer