

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

TRINECKÉ ŽELEZÁRNY, a.s.
KLADNO-DŘIŇ, CZECH REPUBLIC

is an approved manufacturer of
Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Products	Rolled round bars intended to be machined into components, Semi-finished products for forging or rolling stock
Grades	Carbon and carbon-manganese, Alloy
Steelmaking Deoxidation	Basic Oxygen Converter, Vacuum Degassing & Continuous Casting Killed
Fine grain elements	Al or Al+V, see page 2
Delivery conditions	N or QT, see page 2
Max. diameter	300 mm, see page 2

Manufacturer approved by this certificate is accepted to deliver according to DNV GL, DNV and GL rules.

This Certificate is valid until **2019-04-12**.

Issued at **Høvik** on **2016-04-13**

for **DNV GL**

DNV GL local station: **Czechia**

Approval Engineer: **Sastry Yagnanna Kandukuri**

Hanne Anita Hjerpetjønn
Head of Section

Job Id: 263.11-005780-1
Certificate No: AMMM00000H4

Particulars of the approval

Rolled round bars intended to be machined into components				
Steel type	Steelmaking ¹⁾	Fine grain elements	Delivery conditions	Max. diameter (mm)
Carbon and carbon-manganese	BOC, VD, CC	Al or Al+V	N	300 ²⁾
Alloy	BOC, VD, CC	Al or Al+V	QT	300 ²⁾

Remarks:

¹⁾ Basic Oxygen Converter; VD: Vacuum Degassing; CC: Continuous Casting.

²⁾ Minimum rolling reduction ratio 3.5:1.