



CERTIFICATE NUMBER
FOR-T1700009

ISSUING OFFICE
Singapore OED

CERTIFICATE OF FORGING FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of

RIGANTI S.P.A.

Via Vittorio Veneto, 1, Solbiate
Arno (VA), Italy, 21048

attend its facilities as indicated in the ABS Milano Port office survey report number 3404495 dated 07 December 2017 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Other and Steel Forging and Stainless Steel Forging components for marine applications

in accordance with the ABS Approval letter (Reference T1700009), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 17 September 2022 subject to adherence to relevant ABS Rules, Survey requirements and annual endorsement by an ABS representative.



Marcus Cridland
Chief Metallurgist, ABS

ISSUE DATE: 07 December 2017
EXPIRY DATE: 17 September 2022

FIRST ANNUAL
ENDORSEMENT:

SECOND ANNUAL
ENDORSEMENT:

THIRD ANNUAL
ENDORSEMENT:

FOURTH ANNUAL
ENDORSEMENT:

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, Guides, standards or other criteria of ABS as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a full description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of ABS who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



RIGANTI S.P.A (720377)
VIA VITTORIO VENETO, 1,
21048 SOLBIATE ARNO (VA),
ITALY

Reference: AN/NV T1700009
Project Number: 2906625
Certificate no: FOR-T1700009

Attn: Mr. Emanuele Cervini

Renewal of Forging Facility and Process Approval ABS Approval of RIGANTI S.P.A, ITALY

We have received the ABS plant survey report BO3404495 dated 27 October 2017, along with your submittals of 07 December 2017 together with enclosures relative to the subject. With regard thereto we advise that RIGANTI S.P.A, Solbiate Arno, Italy is considered approved to produce machinery forging to the requirements of *ABS Materials & Welding Rules Part 2 (2017)* as outlined herein, provided the Rules are adhered to in all respects and all production, testing and inspection are to the satisfaction of the attending ABS Surveyor.

Grade	: Non- ABS - Carbon steels, Low & High Alloy Steels, Stainless Steels & Nickel Based Alloys
Melting Practice	: ABS Approved Source
Casting Practice	: ABS Approved Source
Forging Practice	: Closed Die
Maximum Weight	: 1,500kg
Maximum Thickness/Diameter	: 400mm/ 1000mm
Heat Treatment Facility	a) In-house, b) Subcontractor i. BTT S.R.L (437060), Via Scaroni 12, Fornaci, Italy, 25131
Application Examples	: Connecting Rods, Pinions, Valve Bodies, Crank Pin Rings, Gears, Shafts

Weld repair is generally not permitted on forgings, unless specially approved by the ABS Engineering Office.

The approval is valid for 5 years subject to annual endorsement survey and will expire on 17 September 2022. Please note it is the responsibility of the facility to inform ABS of any changes to the manufacturing parameters and request annual endorsement survey or renewal of approval prior to the five year expiry date. Our invoice to cover the costs of the technical review is subject to separate correspondence.



An electronic copy of the drawings, appropriately stamped, is available through the ABS Eagle Construct Engineering Manager (O2E) Web portal. If you need to contact ABS regarding this review, please call Angie Ng +65-63717873 or email at anng@eagle.org.

Very truly yours,

Wei-Biao (Bill) Shi
Vice President, Global Engineering ABS

A handwritten signature in black ink, appearing to read "Smeruva", written over a horizontal line.

Satya Meruva
Managing Principal Engineer
Global Engineering – Materials, Welding and NDE

CC: ABS Milan port



Drawing List

Engineering Office:	Singapore OED	
Submitter:	RIGANTI S.P.A. (720377)	
Drawing No	Revision No	Drawing Title
170220_n_Mgt Declaration-Review	-	170220_n_Mgt Declaration-Review
170220_m_MMdb approval requirements- Correspondence	-	170220_m_MMdb approval requirements- Correspondence
ISO 9001-2008 SCAD 2018-Reference Correspondence	-	ISO 9001-2008 SCAD 2018-Reference 170220_m_ABS London Plan Approval Request- Correspondence
Certificates Combined-Reference	-	Certificates Combined-Reference
BO3404495	-	Plant Survey Report