Certificate No: LR2015504TA
Issue Date: 07/09/2020
Expiry Date: 09/06/2025

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Spicer Gelenkwellenbau GmbH**
Address	II. Schnieringstr. 49, Essen, 45329, Germany
Type	Shafting
Description	Cardan shafts in short- and welded tubular-design with length compensation and flanges on both ends. Flange connections by 10.9 material through bolts.
Trade Name	Type 390 Size 60, 65 and 70
Application	As power transmitting shafts for main propulsion and auxiliary drive purposes in a marine environment and for ships classed or intended for classification with Lloyd´s Register.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, 2020

Ratings

Size	Max. Torque [Nm]	Max. Speed [rpm]
60	9215	3000
65	13050	3000
70	18067	2500

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Olaf Schmidt

Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Other Conditions After installation of cardan shaft a guard is to be provided to prevent danger to the personnel

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HPC/HMD 3818-00, Issue No. 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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