

Ultrasonic Tests of Steel Forgings

Amended Guidance

Guidance for the Survey and Construction of Steel Ships Part K

Reason for Amendment

Requirements related to the ultrasonic tests of steel forgings in accordance with Annex K6.1.10(1) of the Guidance for the Survey and Construction of Steel Ships Part K are based upon JFSS I3 (Standard for Ultrasonic Tests of Marine Steel Forgings) established by the Steel Castings and Forgings Association of Japan in 1970.

In July 2012, the Steel Castings and Forgings Association of Japan totally reviewed the standard to take into account developments made over the years regarding scanning techniques as well as 'new' knowledge obtained from years of established practices. A revised version of this standard was established as JFSS I3-2012.

Accordingly, relevant requirements have been amended based on JFSS I3-2012.

Outline of Amendment

- (1) Clarified that requirements related to the ultrasonic tests of steel forgings are to be applied to rudder pintles.
- (2) Amended performance requirements related to flaw detectors. In addition, deleted requirements related to dead zones, noise levels and probe materials in consideration of advances made in flaw detector performance.
- (3) Amended requirements related to the ultrasonic testing procedures for scanning surface roughness so that description used matches that used in the latest version of JIS. In addition, specified requirements related to scanning methods.
- (4) Amended the some requirements of flaw detector performance so as to refer to relevant JIS number directly instead of description the same contents in JIS.