

ISO 16123:2025-03 (E)

Ships and marine technology - Marine cranes - Slewing bearings

Contents

Page

Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	2
4 Classification and designation.....	2
4.1 Composition and structure.....	2
4.2 Designation.....	3
5 Technical requirements.....	4
5.1 Load ratings.....	4
5.2 Rolling element.....	4
5.3 Bearing rings.....	5
5.4 Cage/separator.....	6
5.5 Sealing ring.....	6
5.6 Oil cup.....	6
5.7 Gears of the bearing ring.....	6
5.8 Residual magnetism limit of the bearing.....	7
5.9 Accuracy of the slewing bearing.....	8
5.10 Lubrication.....	10
5.11 Other requirements.....	10
6 Inspection requirements.....	10
6.1 Inspection items.....	10
7 Inspection method.....	11
7.1 Materials.....	11
7.2 Hardness.....	11
7.3 Surface cracks of raceway.....	11
7.4 Ultrasonic testing of bearing rings.....	11
7.5 Impact energy of bearing ring material.....	11
7.6 Effective depth of hardening of raceway quenching, D_S	11
7.7 Width of soft zone of raceway quenching.....	11
7.8 Appearance quality.....	11
7.9 Dimensional tolerance.....	11
7.10 Rotation accuracy.....	12
7.11 Gear accuracy.....	12
7.12 Clearance.....	13
7.13 Rotation.....	13
8 Marking, packaging, transportation and storage.....	13
8.1 Marking.....	13
8.2 Packaging.....	13
8.3 Transportation and storage.....	13
9 Installation and maintenance.....	14
Annex A (informative) Installation and maintenance of slewing bearing.....	15
Bibliography.....	17