



Exploration & Production

GENERAL SPECIFICATION

STRUCTURAL

GS EP STR 005

Lifting Appliances other than cranes and winches

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1. Scope

This general specification applies to all lifting appliances (and attached lifting tackles) other than cranes and winches, removable or permanently installed on fixed or floating offshore installations, used either for material handling or maintenance purposes.

The following are excluded:

- Devices used for underwater installations
- Devices used for manned submarine/diving equipment handling operations
- Special drilling devices.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
ASTM B 633	Standard specification for electro deposited coatings of zinc on iron and steel
ASTM F 1941M	Standard specification for electrodeposited coatings on threaded fasteners (metric)
BS 466	Overhead Travelling Cranes
EN 1990	Eurocode: Basis for structural design
EN 1991-3	Actions on structures - Part 3: Actions induced by cranes and machinery
EN 1993-6	Design of steel structures - Part 6: Crane supporting structures
EN 10204: 2005	Metallic products - Types of inspection documents
EN 13889	Forged steel shackles for general lifting purposes. Dee shackles and bow shackles
EN 14399-1	High strength structural bolting assemblies for preloading - Part 1: General requirements
EN 14399-3	High strength structural bolting assemblies for preloading - Part 3: System HR - Hexagon bolt and nut assemblies
EN 50014 EN 50014/A1 and A2	Electrical apparatus for potentially explosive atmospheres - General requirement
EN 50018/A1	Electrical apparatus for explosive atmospheres - Flameproof enclosures "d"
EN 61000-2	Electromagnetic compatibility (EMC)
IEC 60079	Electrical apparatus for explosive gas atmospheres
ISO 2408	Steel wire ropes for general purposes - Characteristics



Reference	Title
ISO 4042	Fasteners. Electroplated coatings
ISO 4301-5	Cranes Classification - Overhead Travelling Cranes and Portal Bridge Cranes
ISO 4302	Cranes - Wind loads assessment
ISO 7363	Cranes and Lifting Appliances - Technical characteristics and Acceptance documents
ISO 7752-5	Lifting Appliances - Controls - Layout and Characteristics - Part 5: Overhead Travelling Cranes and Portal Bridge Cranes
ISO 8306	Cranes - Overhead Travelling Cranes and Portal Bridge Cranes - Tolerances for cranes and tracks
ISO 8566-5	Cranes - Cabins - Part 5: Overhead Travelling and Portal Bridge Cranes
ISO 8686-5	Cranes - Design principles for loads and load combination - Part 5: Overhead Travelling Cranes and Portal Bridge Cranes
ISO 9001	Quality systems - Model for quality assurance in design / development production, installation and servicing
ISO 9374-1	Cranes Information to be provided - Part 1: General
ISO 9374-5	Cranes Information to be provided - Part 5: Overhead Travelling Cranes and Portal Bridge Cranes
ISO 9927-1	Cranes - Inspections - Part 1: General
ISO 10245-1	Cranes - Limiting and Indicating devices - Part 1: General
ISO 10245-5	Cranes - Limiting and Indicating devices - Part 5: Overhead Travelling Cranes and Portal Bridge Cranes
ISO 10972-5	Cranes - Requirements for mechanism - Part 5: Bridge and gantry cranes
ISO 11660-5	Cranes - Access, Guards and Restraints - Part 5: Bridge and Gantry Cranes
ISO 12210-1	Cranes - Anchoring devices for in-service and out-of-service conditions - Part 1: General
ISO 16880	Bridge and Gantry cranes - International standards for design and manufacturing requirements and recommendations

**Professional Documents**

Reference	Title
API SPEC 9A	Specification for wire rope
API RP 2D	Recommended practice for operation and maintenance of offshore cranes
AWS D1.1	Structural welding code
ATEX European Directives 94/9/CE & 99/92/CE	Rules for the design of material in hazardous area classifications
EEMUA Publication 140	Noise procedure specification
FEM Section 9	Fédération Européenne de la Manutention (Section 9: Appareils de levage de série)
ICAO	International Civil Aviation Organization
"LEBUS" littérature	Drum grooving

Regulations

Reference	Title
Not applicable	

National regulations are not listed in this document due to their high specificity and variability.

However, where national regulations exist, their provisions and those of the standards and codes to which they refer shall apply to the works done in the State, and supplementing or amending the provisions of this document.

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	