# DIN EN ISO 13626:2005-09 (E)

## Petroleum and natural gas industries - Drilling and production equipment - Drilling and well-servicing structures (ISO 13626:2003); English version EN ISO 13626:2004

## Contents

Page


Foreword ... 4

1 Scope ... 5

2 Normative references ... 5

3 Terms and definitions ... 6

4 Product specification levels ... 8

5 Marking and information ... 8
5.1 Nameplate ... 8
5.2 Derrick and mast nameplate information ... 8
5.3 Substructure nameplate information ... 9
5.4 Crown block assembly nameplate information (required only for crown block assemblies for use with derricks) ... 10

6 Standard ratings ... 10
6.1 General ... 10
6.2 Derrick — Stationary base ... 10
6.3 Mast with guy lines ... 10
6.4 Mast without guy lines ... 11
6.5 Derrick and mast under dynamic conditions ... 11
6.6 Substructure ... 11
6.7 Substructure under dynamic conditions ... 11
6.8 Crown block assembly ... 12

7 Design loading ... 12
7.1 General ... 12
7.2 Derrick (stationary base) ... 12
7.3 Mast with guy lines ... 13
7.4 Mast without guy lines ... 14
7.5 Derrick and mast under dynamic conditions ... 14
7.6 Substructure ... 15
7.7 Substructure under dynamic conditions ... 15
7.8 Guide tracks and dollies ... 15
7.9 Crown block assemblies ... 15

8 Design specification ... 15
8.1 Allowable stresses ... 15
8.2 Wind ... 16
8.3 Dynamic loading (induced by floating hull motion) ... 19
8.4 Earthquake ... 20
8.5 Design verification ... 20

9 Materials ... 20
9.1 General ... 20
9.2 Written specifications ... 21
9.3 Mechanical properties ... 21
9.4 Material qualification ... 21
9.5 Material manufacture ... 21
9.6 Bolts ... 21
9.7 Wire rope ... 21

10 Welding requirements ... 22
10.1 General ... 22

**10.2 Welding qualifications** ..... **22**
**10.3 Written documentation** ..... **22**
**10.4 Control of consumables** ..... **22**
**10.5 Weld properties** ..... **22**
**10.6 Post-weld heat treatment** ..... **22**
**10.7 Quality control requirements** ..... **22**
**10.8 Specific requirement — repair welds** ..... **23**
**11 Quality control** ..... **23**
**11.1 General** ..... **23**
**11.2 Quality control personnel qualifications** ..... **23**
**11.3 Measuring and test equipment** ..... **23**
**11.4 Non-destructive examination** ..... **24**
**11.5 Dimensional verification** ..... **25**
**11.6 Workmanship and finishing** ..... **25**
**11.7 Purchaser's inspection and rejection** ..... **25**
**11.8 Testing** ..... **26**
**11.9 Traceability** ..... **26**
**12 Documentation** ..... **27**
**12.1 General** ..... **27**
**12.2 Documentation to be kept by the manufacturer** ..... **27**
**12.3 Documentation to be delivered with equipment** ..... **28**
**Annex A** (normative) **Supplementary requirements** ..... **29**
**Annex B** (normative) **Standard derricks** ..... **31**
**Bibliography** ..... **35**