

DIN EN 14439:2010-03 (E)

Cranes - Safety - Tower cranes (includes Amendment A2:2009)

| Contents | Page |
|--|-------------|
| Foreword | 3 |
| Introduction | 4 |
| 1 Scope..... | 5 |
| 2 Normative references | 5 |
| 3 Terms and definitions..... | 7 |
| 4 List of significant hazards..... | 7 |
| 5 Safety requirements and/or protective measures | 10 |
| 5.1 General | 10 |
| 5.2 Design requirements on the load bearing structure | 10 |
| 5.3 Design requirements for equipment | 11 |
| 5.4 Design requirements for health and safety | 12 |
| 5.5 Noise reduction | 21 |
| 6 Verification of the safety requirements and/or protective measures | 21 |
| 6.1 General | 21 |
| 6.2 Method of verification..... | 21 |
| 6.3 Fitness for purpose..... | 23 |
| 6.4 Noise measurement | 23 |
| 7 Information for use..... | 23 |
| 7.1 General | 23 |
| 7.2 Instructions handbook | 23 |
| 7.3 Marking..... | 25 |
| Annex A (normative) Stability requirements | 27 |
| Annex B (informative) Requirements for the provision of anti-collision on tower crane | 28 |
| Annex C (normative) Outside indicators on the crane | 30 |
| Annex D (normative) Verification of the safety requirements and/or protective measures | 31 |
| Annex E (normative) Noise test code | 34 |
| Annex F (normative) $\boxed{A_1}$ Climbing system $\langle A_1 \rangle$ | 40 |
| Annex G (informative) Marking - Example of layout | 47 |
| Annex H (informative) Selection of a suitable set of crane standards for a given application | 52 |
| Annex ZA (informative) $\boxed{A_2}$ Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC $\langle A_2 \rangle$ | 53 |
| Annex ZB (informative) $\boxed{A_2}$ Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC $\langle A_2 \rangle$ | 54 |
| Bibliography | 55 |