

DIN EN 13848-3:2013-01 (E)

Railway applications - Track - Track geometry quality - Part 3: Measuring systems - Track construction and maintenance machines

| Contents | | Page |
|-----------------------|---|-------------|
| Foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Terms and definitions | 4 |
| 4 | Symbols and abbreviations | 6 |
| 5 | Track geometry measuring system fitted on track construction and maintenance machines | 6 |
| 5.1 | General description | 6 |
| 5.2 | Environmental conditions | 8 |
| 5.3 | Track features input | 9 |
| 5.4 | Data localisation | 9 |
| 5.5 | Measuring system/device | 9 |
| 5.6 | Data processing | 11 |
| 5.7 | Data output | 11 |
| 5.8 | Data storage | 11 |
| 6 | Testing of track geometry measuring and recording system | 12 |
| 6.1 | Introduction | 12 |
| 6.2 | Calibration | 12 |
| 6.3 | Validation by field tests | 12 |
| 6.4 | Routine validation | 15 |
| Annex A (normative) | Parameters measured by track construction and maintenance machine | 16 |
| A.1 | Introduction | 16 |
| A.2 | Track gauge | 16 |
| A.3 | Longitudinal level | 17 |
| A.4 | Cross level | 18 |
| A.5 | Alignment | 19 |
| A.6 | Twist | 20 |
| Annex B (informative) | Principles of measurement | 21 |
| B.1 | General Description | 21 |
| B.2 | Longitudinal level and alignment | 21 |
| B.3 | Track gauge | 21 |
| B.4 | Cross level | 22 |
| B.5 | Twist | 22 |
| Annex C (normative) | Description of field tests: values to be respected | 23 |
| C.1 | General | 23 |
| C.2 | Repeatability | 23 |
| C.3 | Reproducibility | 24 |
| Bibliography | | 25 |

