

DIN EN ISO 8325:2023-06 (E)

Dentistry - Test methods for rotary instruments (ISO 8325:2023)

| Contents | | Page |
|---|--|-------------|
| European foreword | | 3 |
| Foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 6 |
| 4 | Measurement and test methods | 7 |
| 4.1 | General | 7 |
| 4.2 | Ambient conditions | 7 |
| 4.3 | Measurements | 7 |
| 5 | Measurement of single characteristics | 7 |
| 5.1 | Measuring instrument | 7 |
| 5.2 | Shape of the working part | 7 |
| 5.3 | Diameter of the working part | 7 |
| 5.3.1 | Location of measurement points | 7 |
| 5.3.2 | Procedure | 8 |
| 5.3.3 | Evaluation of test results | 8 |
| 5.4 | Neck diameter | 8 |
| 5.4.1 | Location of measurement points | 8 |
| 5.4.2 | Procedure | 8 |
| 5.5 | Dimensions of shanks | 8 |
| 5.5.1 | Shank diameter | 8 |
| 5.5.2 | Shank length | 9 |
| 5.6 | Dimensions of mandrels | 9 |
| 5.7 | Length of working part | 9 |
| 5.7.1 | Location of measurement points | 9 |
| 5.7.2 | Procedure | 9 |
| 5.8 | Overall length | 9 |
| 5.8.1 | Location of measurement points | 9 |
| 5.8.2 | Procedure | 9 |
| 5.9 | Angle of taper of working part | 9 |
| 5.9.1 | Location of measurement points | 9 |
| 5.9.2 | Procedure | 9 |
| 5.10 | Run-out of the working part | 10 |
| 5.10.1 | Apparatus | 10 |
| 5.10.2 | Location of measurement points | 11 |
| 5.10.3 | Procedure | 11 |
| 5.11 | Neck strength test | 11 |
| 5.11.1 | Apparatus | 11 |
| 5.11.2 | Test force | 12 |
| 5.11.3 | Procedure | 12 |
| 5.11.4 | Calculation of test force for neck strength | 12 |
| 5.11.5 | Evaluation | 13 |
| 5.12 | Surface roughness | 13 |
| 6 | Test report | 13 |
| Annex A (informative) Deduction of the neck strength formula | | 14 |