

ISO 23298:2023-05 (E)

Dentistry - Test methods for machining accuracy of computer-aided milling machines

| Contents | | Page |
|-----------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | General | 2 |
| 5 | Test methods | 2 |
| 5.1 | Metal die method | 2 |
| 5.1.1 | Target restorations | 2 |
| 5.1.2 | Apparatus | 2 |
| 5.1.3 | Measurement of metal dies | 5 |
| 5.1.4 | Preparation of three-dimensional data | 5 |
| 5.1.5 | Machining of restorations | 7 |
| 5.1.6 | Evaluation of accuracy | 8 |
| 5.2 | Test methods for software method | 13 |
| 5.2.1 | General | 13 |
| 5.2.2 | Test object | 15 |
| 5.2.3 | Equipment and apparatus | 18 |
| 5.2.4 | Machining of specimens | 18 |
| 5.2.5 | Measurement | 20 |
| 5.2.6 | Data alignment procedures | 21 |
| 5.2.7 | Data analysis procedure | 22 |
| 5.2.8 | Calculation of total errors | 25 |
| 6 | Test report | 26 |
| 6.1 | General information | 26 |
| 6.2 | Specific information | 27 |
| 6.2.1 | Die method | 27 |
| 6.2.2 | Software method | 27 |
| 6.3 | Averaged characteristic accuracy values | 27 |
| 6.3.1 | Die method | 27 |
| 6.3.2 | Software method | 28 |
| Annex A (informative) | Flow chart of test method | 29 |
| Annex B (normative) | Measurement of die set(s) and preparation of CAD data of target restoration(s) | 31 |
| Annex C (informative) | of test reports | 41 |
| Bibliography | | 46 |