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 Termsanddefinitions 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