ISO 1701-1:2004-08 (E)

Test conditions for milling machines with table of variable height - Testing of the accuracy - Part 1: Machines with horizontal spi ndle

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terminology, designation of axes and milling operations 1
3.1 Terminology and designation of axes 1
3.2 Milling operations 4
3.3 Description of machines 4

4 Preliminary remarks 5
4.1 Measuring units 5
4.2 Reference to ISO 230-1 5
4.3 Testing sequence 5
4.4 Tests to be performed 5
4.5 Measuring instruments 5
4.6 Machining tests 6
4.7 Minimum tolerance 6

5 Geometric tests 7
5.1 Axes of motion 7
5.2 Table 10
5.3 Spindle 15
5.4 Arbor support 20

6 Machining test 24

Annex A (informative) Equivalent terms in German, Italian, Dutch, Spanish and Swedish, corresponding to Figure 1 25

Annex B (informative) Equivalent terms in German, Italian, Dutch, Spanish and Swedish, corresponding to Figure 2 26

Bibliography 27