

ISO 3875:2020-01 (E)

Machine tools - Test conditions for external cylindrical centreless grinding machines - Testing of the accuracy

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Terminology, designation of axes and machine configurations		2
5 Preliminary remarks		3
5.1 Measuring units.....		3
5.2 Reference to ISO 230-1 and ISO 230-2.....		4
5.3 Machine levelling.....		4
5.4 Testing sequence.....		4
5.5 Tests to be performed.....		4
5.6 Measuring instruments.....		4
5.7 Machining tests.....		4
5.8 Software compensation.....		5
5.9 Axis not under test.....		5
5.10 Minimum tolerance.....		5
6 Geometric tests		6
7 Accuracy and repeatability of positioning		12
7.1 Positioning of manual or automatic (but not numerically controlled) linear axes.....		12
7.2 Positioning of numerically controlled linear axes.....		13
8 Machining tests		17
8.1 In-feed grinding.....		17
8.2 Through-feed grinding.....		18
Annex A (informative) Terms in other languages		19
Bibliography		20