

ISO 6789-1:2017-02 (E)

Assembly tools for screws and nuts - Hand torque tools - Part 1: Requirements and methods for design conformance testing and quality conformance testing: minimum requirements for declaration of conformance

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms, definitions and symbols	1
3.1	Terms and definitions	1
3.2	Symbols, designations and units	3
4	Classification	3
5	Requirements	3
5.1	Design conformance testing	3
5.1.1	General	3
5.1.2	Maximum torque values	4
5.1.3	Specified torque range	4
5.1.4	Scales, dials and displays	4
5.1.5	Maximum permissible deviation	5
5.1.6	Overloading test	5
5.1.7	Endurance test	5
5.1.8	Effect of geometric changes	6
5.2	Quality conformance testing	7
5.3	Conformance test during use	7
6	Torque measurement	7
6.1	Torque measurement system	7
6.2	Application of torque	8
6.3	Ambient conditions	8
6.4	Measurement requirements	9
6.5	Measurement sequence	11
6.5.1	General	11
6.5.2	Indicating torque tools, Type I	11
6.5.3	Setting torque tools, Type II	11
7	Calculation of deviation	12
7.1	General	12
7.2	Calculation example 1	12
7.3	Calculation example 2	13
8	Declaration of conformance	14
9	Marking	15
Annex A (normative) Examples of indicating torque tools (Type I)		16
Annex B (normative) Examples of setting torque tools (Type II)		17

Annex C (informative) Measurement sequence flowchart for torque tools	19
Bibliography	22