APPENDIX DD
ADOPTION PROPOSAL FORM

**CPR183/F12**

**KENYA BUREAU OF STANDARDS**

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| --- | --- |
| **Document Type:** | **Adoption proposal** |
| **Dates:** | Circulation date | Closing date |
| 30th January 2024 | 29th February 2024 |
| **TC Secretary** | **This form shall be filled, signed and returned to Kenya Bureau of Standards for the attention of Mercy Kang’ (**silam**@kebs.org****)**  |

The Kenya Bureau of Standards intends to adopt the International Standards as detailed here below

**KEBS TC 120 SMALL TOOLS**

1. **Number:** ISO 10103:2018 to replace KS ISO 10103:1998

**Title:** Assembly tools for screws and nuts — Doubled-headed box wrenches, flat and offset — Outside dimensions and test torques

**Scope:**

This document specifies the overall length and the maximum head thickness for double-headed box wrenches, flat (Form B) and offset (Form A).

NOTE The wrenches covered by this document are the ones identified in ISO 1703:2005 under reference numbers 1 1 02 03 0 and 1 1 02 04 0.

This document covers technical specifications for the test torque of these products. All other technical specifications are given in ISO 1711-1.

<https://www.iso.org/obp/ui/en/#iso:std:iso:10103:ed-3:v1:en>

1. **Number:** ISO 10104:2018 to replace KS ISO 10104:1998

**Title:** Assembly tools for screws and nuts — Double-headed box wrenches, deep offset and modified offset — Outside dimensions

**Scope:**

This document specifies the overall length and the maximum head thickness for double-headed box wrenches, deep offset (Form B) and modified offset (Form A).

NOTE The wrenches covered by this document are the ones identified in ISO 1703:2005 under reference numbers 1 1 02 06 0 and 1 1 02 05 0.

This document does not cover technical specifications for these products. Technical specifications are given in ISO 1711-1:2016, series A.

<https://www.iso.org/obp/ui/en/#iso:std:iso:10104:ed-3:v1:en>

1. **Number:** ISO 1711-1:2019 to replace KS ISO 1711-1:1998

**Title:** Assembly tools for screws and nuts — Technical specifications — Part 1: Hand-operated wrenches and sockets

**Scope:**

This document specifies minimum values for Rockwell hardness and torsional strength for hand-operated wrenches and sockets.

It covers the following three series of torsion torques:

— Series A: usual box wrenches and socket wrenches;

— Series C: open end wrenches;

— Series E: hand-operated square drive sockets.

<https://www.iso.org/obp/ui/en/#iso:std:iso:1711:-1:ed-5:v1:en>

1. **Number:** ISO 1711-2:2019 to replace KS ISO 1711-1:1998

**Title:** Assembly tools for screws and nuts — Technical specifications — Part 2: Machine-operated sockets (impact)

**Scope:** This document specifies hardness and minimum torsional strength for machine-operated square drive sockets in accordance with ISO 2725-2 intended for use with impact wrenches.

<https://www.iso.org/obp/ui/en/#iso:std:iso:1711:-2:ed-4:v1:en>

1. **Number:** ISO 6789-1:2017 to replace KS ISO 6789:2003

**Title:** 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

**Scope:** This document specifies the conformance testing and marking requirements for hand torque tools used for controlled tightening of screws and nuts. It also specifies the minimum requirements for declaration of conformance for hand torque tools.

This document applies to hand torque tools which are classified as indicating torque tools (Type I) and setting torque tools (Type II).

NOTE Hand torque tools covered by this document are those identified in ISO 1703:2005 by reference numbers 6 1 00 11 0, 6 1 00 11 1 and 6 1 00 12 0, 6 1 00 12 1 and 6 1 00 14 0, 6 1 00 15 0. ISO 1703 is currently under revision. In the next edition, torque tools will be moved to an own clause, and with this change the reference numbers will also change and additional reference numbers will be added.

This document does not specify requirements of calibration certificates for hand torque tools. These are described in ISO 6789-2.

<https://www.iso.org/obp/ui/en/#iso:std:iso:6789:-1:ed-1:v1:en>

1. **Number:** ISO 6789-2:2017 to replace KS ISO 6789:2003

**Title:** Assembly tools for screws and nuts — Hand torque tools — Part 2: Requirements for calibration and determination of measurement uncertainty

**Scope:** This document specifies the method for the calibration of hand torque tools and describes the method of calculation of measurement uncertainties for the calibration.

This document specifies the minimum requirements for the calibration of the torque measurement device where the relative measurement uncertainty interval, W´md, is not already provided by a traceable calibration certificate.

ISO 6789 is applicable for the step by step (static) and continuous (quasi-static) calibration of torque measurement devices, the torque of which is defined by measuring of the elastic form change of a deformable body or a measured variable which is in proportion to the torque.

This document applies to hand torque tools which are classified as indicating torque tools (Type I) and setting torque tools (Type II).

NOTE Hand torque tools covered by this document are the ones identified in ISO 1703:2005 by reference numbers 6 1 00 11 0, 6 1 00 11 1 and 6 1 00 12 0, 6 1 00 12 1 and 6 1 00 14 0, 6 1 00 15 0. ISO 1703 is currently under revision. In the next edition, torque tools will be moved to an own clause, and with this change the reference numbers will also change and additional reference numbers will be added.

<https://www.iso.org/obp/ui/en/#iso:std:iso:6789:-2:ed-1:v1:en>

1. **Number:** ISO 5745:2004 to replace KS ISO 5745:1988

**Title:** Pliers and nippers — Pliers for gripping and manipulating — Dimensions and test values

**Scope:** This International Standard specifies the principal dimensions of pliers for gripping and manipulating and the test values for the pliers in order to verify their aptitude to function in conformity with ISO 5744. General technical requirements are given in ISO 5743.

The pliers for gripping and manipulating illustrated in this International Standard are examples only and are not intended to affect the manufacturer's design.

<https://www.iso.org/obp/ui/en/#iso:std:iso:5745:ed-3:v1:en>

1. **Number:** ISO 5749:2004 to replace KS ISO 5749:1988

**Title:** Pliers and nippers — Diagonal cutting nippers — Dimensions and test values

**Scope:** This International Standard specifies the principal dimensions of diagonal cutting nippers and the test values for the nippers in order to verify their aptitude to function in conformity with ISO 5744. General technical requirements are given in ISO 5743.

The diagonal cutting nippers illustrated in this International Standard are examples only and are not intended to affect the manufacturer's design.

<https://www.iso.org/obp/ui/en/#iso:std:iso:5749:ed-3:v1:en>

1. **Number:** ISO 5744:2004 to replace KS ISO 5744:1998

**Title:** Pliers and nippers — Methods of test

**Scope:** This International Standard specifies methods of test for checking the correct functioning of pliers and nippers.

The test parameters have been specified on the basis of the functional uses of the tools

<https://www.iso.org/obp/ui/en/#iso:std:iso:5744:ed-3:v1:en>

1. **Number:** ISO 5742:2004 to replace KS ISO 5742:1998

**Title:** Pliers and nippers — Nomenclature

**Scope:**

<https://www.iso.org/obp/ui/en/#iso:std:33638:en>

1. **Number:** ISO 5743:2021 to replace KS ISO 5743:1988

**Title:** Pliers and nippers — Nomenclature

**Scope:** This document specifies the general technical requirements to be met by pliers and nippers.

It does not specify insulating or antistatic characteristics of handle coatings. Plastic coatings or plastic sleeves are intended for gripping comfort only.

This document is only applicable to pliers for which ISO standards exist.

<https://www.iso.org/obp/ui/en/#iso:std:iso:5743:ed-4:v1:en>

1. **Number:** ISO 5746:1988 to replace KS ISO 5746:2021

**Title:** Pliers and nippers — Engineer's and Lineman's pliers — Dimensions and test values

**Scope:** This document specifies the principal dimensions of engineer's and Lineman's pliers and the test values for the pliers in order to verify their aptitude to function in conformity with ISO 5744. General technical requirements are given in ISO 5743.

The engineer's and Lineman's pliers illustrated in this document are examples only and are not intended to affect the manufacturer's design**.**

<https://www.iso.org/obp/ui/en/#iso:std:iso:5746:ed-4:v1:en>

1. **Number:** ISO 8976:2021 to replace KS ISO 8976:1998

**Title:** Pliers and nippers — Multiple slip joint pliers — Dimensions and test values

**Scope:** This document specifies the principal dimensions of multiple slip joint pliers.

It also specifies test values for the pliers to verify their aptitude to function in conformity with ISO 5744. General technical requirements are given in ISO 5743.

The multiple slip joint pliers illustrated in this document are only examples and are not intended to affect the manufacturer's design.

<https://www.iso.org/obp/ui/en/#iso:std:iso:8976:ed-3:v1:en>

1. **Number:** ISO 5748:2004 to replace KS ISO:5748:1988

**Title:** Pliers and nippers — End cutting nippers — Dimensions and test values

**Scope:** This International Standard specifies the principal dimensions of end cutting nippers and the test values for the nippers in order to verify their aptitude to function in conformity with ISO 5744. General technical requirements are given in ISO 5743.

The end nippers illustrated in this International Standard are examples only and are not intended to affect the manufacturer's design.

<https://www.iso.org/obp/ui/en/#iso:std:iso:5748:ed-3:v1:en>

1. **Number:** ISO 9657:2004 to replace KS ISO 9657:1989

**Title:** Pliers and nippers for electronics — General technical requirements

**Scope:** This International Standard specifies the general technical requirements to be met by pliers and nippers for use in electronics. These pliers and nippers are intended for use on electronic components, printed circuit boards, etc.

NOTE Certain terms used in this International Standard are defined in ISO 8979.

This International Standard does not apply to tools intended for working on live electrical circuits and for antistatic applications**.**

<https://www.iso.org/obp/ui/en/#iso:std:iso:9657:ed-2:v1:en>

1. **Number:** ISO 6787:2018 to replace KS ISO 6787:1995

**Title:** Assembly tools for screws and nuts — Adjustable wrenches

**Scope:** This document specifies the dimensions of adjustable wrenches and the admissible clearance of the adjustable jaw. It also specifies test conditions to test the suitability of tool performance.

NOTE The wrenches covered by this document are the ones identified in ISO 1703:2005 under reference number 1 1 01 04 0.

<https://www.iso.org/obp/ui/en/#iso:std:iso:6787:ed-3:v1:en>

1. **Number:** ISO 1085:2016 to replace KS ISO ISO 1085:1999

**Title:** Assembly tools for screws and nuts — Double-ended wrenches — Size pairing

**Scope:** This document specifies the size pairing of double-ended wrenches with unequal nominal widths across flats.

NOTE The wrenches covered by this document are those identified in ISO 1703:2005 under reference nos. 1 1 01 02 0, 1 1 02 03 0, 1 1 02 04 0, 1 1 02 05 0, 1 1 02 06 0, 1 1 02 08 0.

<https://www.iso.org/obp/ui/en/#iso:std:iso:1085:ed-4:v1:en>

1. **Number:** ISO 888:2012 to replace KS ISO 888:1976

**Title:** Fasteners — Bolts, screws and studs — Nominal lengths and thread lengths

**Scope:** This International Standard specifies lengths and thread lengths for bolts, screws and studs for use in appropriate product standards and other relevant documents, e.g. for parts per drawing.

It applies to bolts, screws and studs with ISO metric screw thread according to ISO 68-1.

<https://www.iso.org/obp/ui/en/#iso:std:iso:888:ed-2:v1:en>

1. **Number:** ISO 898-1:2013 to replace KS ISO 898-1:1999

**Title:** Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread

**Scope:** This part of ISO 898 specifies mechanical and physical properties of bolts, screws and studs made of carbon steel and alloy steel when tested at an ambient temperature range of 10 °C to 35 °C. Fasteners (the term used when bolts, screws and studs are considered all together) that conform to the requirements of this part of ISO 898 are evaluated at that ambient temperature range. They might not retain the specified mechanical and physical properties at elevated temperatures (see Annex B) and/or lower temperatures.

NOTE 1 Fasteners conforming to the requirements of this part of ISO 898 are used in applications ranging from −50 °C to +150 °C. Users are advised to consult an experienced fastener metallurgist for temperatures outside the range of −50 °C to +150 °C and up to a maximum temperature of +300 °C when determining appropriate choices for a given application.

NOTE 2 Information for the selection and application of steels for use at lower and elevated temperatures is given, for example, in EN 10269, ASTM F2281 and in ASTM A320/A320M.

Certain bolts and screws might not fulfil the tensile or torsional requirements of this part of ISO 898 because the geometry of their heads reduces the shear area in the head compared to the stress area in the thread. These include bolts and screws having a low or countersunk head (see 8.2).

This part of ISO 898 is applicable to bolts, screws and studs

— made of carbon steel or alloy steel,

— having triangular ISO metric screw thread in accordance with ISO 68-1,

— with coarse pitch thread M1,6 to M39, and fine pitch thread M8×1 to M39×3,

— with diameter/pitch combinations in accordance with ISO 261 and ISO 262, and

— having thread tolerances in accordance with ISO 965-1, ISO 965-2 and ISO 965-4.

It is not applicable to set screws and similar threaded fasteners not under tensile stress (see ISO 898-5).

It does not specify requirements for such properties as

— weldability,

— corrosion resistance,

— resistance to shear stress,

— torque/clamp force performance (for test method, see ISO 16047), or

— fatigue resistance.

<https://www.iso.org/obp/ui/en/#iso:std:iso:898:-1:ed-5:v1:en>

1. **Number:** ISO 898-1:2013/Cor 1:2013

**Title:** Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread

**Scope:** This part of ISO 898 specifies mechanical and physical properties of bolts, screws and studs made of carbon steel and alloy steel when tested at an ambient temperature range of 10 °C to 35 °C. Fasteners (the term used when bolts, screws and studs are considered all together) that conform to the requirements of this part of ISO 898 are evaluated at that ambient temperature range. They might not retain the specified mechanical and physical properties at elevated temperatures (see Annex B) and/or lower temperatures.

NOTE 1 Fasteners conforming to the requirements of this part of ISO 898 are used in applications ranging from −50 °C to +150 °C. Users are advised to consult an experienced fastener metallurgist for temperatures outside the range of −50 °C to +150 °C and up to a maximum temperature of +300 °C when determining appropriate choices for a given application.

NOTE 2 Information for the selection and application of steels for use at lower and elevated temperatures is given, for example, in EN 10269, ASTM F2281 and in ASTM A320/A320M.

Certain bolts and screws might not fulfil the tensile or torsional requirements of this part of ISO 898 because the geometry of their heads reduces the shear area in the head compared to the stress area in the thread. These include bolts and screws having a low or countersunk head (see 8.2).

This part of ISO 898 is applicable to bolts, screws and studs

— made of carbon steel or alloy steel,

— having triangular ISO metric screw thread in accordance with ISO 68-1,

— with coarse pitch thread M1,6 to M39, and fine pitch thread M8×1 to M39×3,

— with diameter/pitch combinations in accordance with ISO 261 and ISO 262, and

— having thread tolerances in accordance with ISO 965-1, ISO 965-2 and ISO 965-4.

It is not applicable to set screws and similar threaded fasteners not under tensile stress (see ISO 898-5).

It does not specify requirements for such properties as

— weldability,

— corrosion resistance,

— resistance to shear stress,

— torque/clamp force performance (for test method, see ISO 16047), or

— fatigue resistance.

<https://www.iso.org/obp/ui/en/#iso:std:iso:898:-1:ed-5:v1:en>

1. **Number:** ISO 898-2:2022 to replace KS ISO 898-2:1980

**Title:** Fasteners — Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes

**Scope:** This document specifies the mechanical and physical properties of nuts made of non-alloy steel or alloy steel, when tested at the ambient temperature range of 10 °C to 35 °C.

This document applies to nuts:

— with ISO metric thread (see ISO 68-1),

— with diameter/pitch combinations according to ISO 261 and ISO 262,

— with coarse pitch thread M5 to M39, and fine pitch thread M8×1 to M39×3,

— with thread tolerances according to ISO 965-1, ISO 965-2 or ISO 965-5,

— with specified property classes 04, 05, 5, 6, 8, 10 and 12 including proof load,

— of three different nut styles (see 5.1): regular nuts (style 1), high nuts (style 2) and thin nuts (style 0),

— with a minimum outside diameter or width across flats s ≥ 1,45D,

— able to mate with bolts, screws and studs with property classes in accordance with ISO 898-1 (see Annex B), and

— intended to be used in applications ranging from –50 °C to +150 °C, or up to +300 °C.

WARNING Nuts conforming to the requirements of this document are tested at the ambient temperature range of 10 °C to 35 °C and are used in applications ranging from –50 °C to +150 °C; however, these nuts are also used outside this range and up to +300 °C for specific applications. It is possible that they do not retain the specified mechanical and physical properties at lower and/or elevated temperatures. Therefore, it is the responsibility of the user to determine the appropriate choices based on the service environment conditions of the assembly (see also 7.1).

For additional specifications applicable to hot dip galvanized nuts, see ISO 10684.

For nuts designed for particular applications, see ISO/TR 16224.

This document does not specify requirements for functional properties such as:

— prevailing torque properties (see ISO 2320),

— torque/clamp force properties (see ISO 16047 for test method),

— weldability, or

— corrosion resistance.

<https://www.iso.org/obp/ui/en/#iso:std:iso:898:-2:ed-4:v1:en>

1. **Number :** ISO 898-5:2012 to replace KS ISO 898-5:1998

**Title:** Mechanical properties of fasteners made of carbon steel and alloy steel — Part 5: Set screws and similar threaded fasteners with specified hardness classes — Coarse thread and fine pitch thread

**Scope:** This part of ISO 898 specifies mechanical and physical properties of set screws and similar threaded fasteners made of carbon steel or alloy steel when tested at an ambient temperature range of 10 °C to 35 °C. Fasteners (the term used when set screws and similar threaded fasteners are considered all together) which conform to the requirements of this part of ISO 898 are evaluated at that ambient temperature range.

Fasteners in conformance with this part of ISO 898 are classified to specified hardness classes and are intended for use under compressive stress only.

<https://www.iso.org/obp/ui/en/#iso:std:iso:898:-5:ed-3:v1:en>.

1. **Number:** ISO 965-2:1998/Amd 1:2021

**Title:** ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality — AMENDMENT 1

**Scope:** This part of ISO 965 specifies limits of sizes for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 262 having basic profile according to ISO 68-1.

The limits of sizes for the tolerance quality specified are derived from the fundamental deviations and tolerances specified in ISO 965-1.

<https://www.iso.org/obp/ui/en/#iso:std:iso:965:-2:ed-3:v1:amd:1:v1:en>

1. **Number:** ISO 965-1:2013 to replace KS ISO 965-1:1998

**Title:** ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data

**Scope:** This part of ISO 965 specifies a tolerance system for ISO general purpose metric screw threads (M) according to ISO 261.

The tolerance system refers to the basic profile according to ISO 68-1.

<https://www.iso.org/obp/ui/en/#iso:std:iso:965:-1:ed-4:v1:en>

1. **Number:** ISO 965-3:2021 to replace KS ISO 965-3:1998

**Title:** ISO general purpose metric screw threads — Tolerances — Part 3: Limit deviations for screw threads

**Scope:** This document specifies limit deviations for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 261 having basic profile in accordance with ISO 68-1.

The limit deviations specified are derived from the fundamental deviations and tolerances specified in ISO 965-1.

This document is applicable to ISO general purpose metric screw threads with the recommended tolerance classes.

<https://www.iso.org/obp/ui/en/#iso:std:iso:965:-3:ed-4:v1:en>

1. **Number:** ISO 262:2023 to replace KS ISO 262:1998

**Title:** ISO general purpose metric screw threads — Selected sizes for bolts, screws, studs and nuts

**Scope:** This document specifies the selected sizes for bolts, screws, studs and nuts in the diameter range from 1 mm to 100 mm of ISO general purpose metric screw threads (M) having the basic and design profiles according to ISO 68-1. These sizes of diameter and pitch combinations are selected from ISO 261.

This document is applicable to the metric commercial fastener screw threads.

<https://www.iso.org/obp/ui/en/#iso:std:iso:262:ed-3:v1:en>

1. **Number:** ISO 5393:2017 to replace KS 5393:1994

**Title:** Rotary tools for threaded fasteners — Performance test method

**Scope:** This document specifies a laboratory performance test method for power assembly tools (referred throughout the document as “tool”) for installing threaded fasteners.

It provides a method for the measurement of torque repeatability (scatter)

— over a range of torque rates as specified in this document,

— over a range of torque adjustment as defined by the manufacturer, and

— over a number of operating cycles as defined by the manufacturer.

It provides a method for the measurement of the precision of the built-in torque measurement system for tools incorporating such a feature. See Annex E.

It gives instructions on equipment parameters, what to test for and how to evaluate and present the test data.

It is applicable to tools

— of any power source, e.g. pneumatic, hydraulic, and electric, including battery-powered,

— which apply torque in a generally continuous manner, and

— within the torque range 0,5 Nm to 2 000 Nm. Outside this range, it is acceptable to modify the test method providing that the modification is documented in the test report.

It is not applicable to

— impact or impulse wrenches,

— ratchet wrenches or wrenches with ratcheting clutches, and

— other tools which advance fasteners in discontinuous increments, overcoming static friction at each increment.

It allows a test to be performed at any test torque level; however, in order to minimize the number of test joints necessary for a wide range of test torque levels, a list of preferred test torque levels is provided in Annex A.

<https://www.iso.org/obp/ui/en/#iso:std:iso:5393:ed-3:v1:en>

We are therefore seeking views from potential users in respect of the same. The Standard is available at the Kenya Bureau of Standards Information Centre. Please tick and fill your preference of the listed option. (If the spaces provided are not enough, please attach a separate sheet of paper).

 Adoption acceptable as presented

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 Adoption proposal not acceptable because of the reason(s) below

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 Our Recommendations are as follows

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Name and Signature (of respondent): ................................................

Position (of respondent): .....................................

On behalf of ......................................................................................... (Name of organization)

Date .........................................................................

**NOTE:** Absence of any reply or comments shall be deemed to be an acceptance of the proposal for adoption and **shall constitute an approval vote**.