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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 46126-2025**

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**Machine-operated socket wrenches - Technical specifications**

机用套筒扳手 技术规范

**(English Translation)**

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## Table of Contents

|                         |
|-------------------------|
| Foreword                |
| 1 Scope                 |
| 2 Normative references  |
| 3 Terms and Definitions |

### Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is modified to adopt ISO 1711-2:2019 "Technical specification for screws and nuts assembly tools - Part 2: Machine sleeves (impact)".

Mode)".

This document has undergone significant structural adjustments compared to ISO 1711-2:2019. A comparison of the structural numbering changes between the two documents is provided below.

See Appendix A for the table.

This document differs significantly from ISO 1711-2:2019. The relevant clauses are indicated in vertical margins.

Single lines (I) are indicated. A summary of these technical differences and their causes can be found in Appendix B.

The following editorial changes have been made to this document.

---The standard name has been changed to "Technical Specification for Machine-Use Socket Wrenches".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Hardware Products (SAC/TC174).

## 1 Scope

This document specifies the terminology and definitions, classification, requirements, test methods, inspection rules, marking, packaging, and transportation of sockets for machine-grade socket wrenches.

Transportation and storage.

This document applies to socket wrenches and sockets for installing and removing bolts, nuts or other fasteners (hereinafter referred to as "machine sockets").

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 230.1 Metallic materials-Rockwell hardness test-Part 1: Test methods (GB/T 230.1-2018, ISO 6508-1.

2016, MOD)

GB/T 1957 Technical Requirements for Smooth Limit Gauges GB/T 2828.1 Sampling Procedures for Inspection by Attributes - Part 1: Sampling Schemes Retrieved by Acceptable Quality Limit (AQL) for Lot-by-Lot Inspection (GB/T 2828.1-2012, ISO 2859-1:1999, IDT) GB/T 2829 Periodic inspection sampling procedures and tables (applicable to the inspection of process stability) GB/T 5305 Hand tools - Packaging, marking, transportation and storage GB/T 6060.2 Surface roughness comparison blocks for surfaces machined by grinding, turning, boring, milling, planing and cutting (GB/T 6060.2-2006) ISO 2632-1:1985, MOD) GB/T 6461 Rating of specimens and test pieces after corrosion testing of metallic and other inorganic coatings on a metallic substrate (GB/T 6461-2002, ISO 10289:1999, IDT) GB/T 10125 Corrosion test in artificial atmosphere - Salt spray test (GB/T 10125-2021, ISO 9227:2017, MOD) ISO 1174-2 Assembly tools for screws and nuts - Part 2: Assembly tools for machine use - Drive joints

## 3 Terms and Definitions

The following terms and definitions apply to this document.

machine-operated impact socket Machine sleeves that withstand impact loads during operation.

non-impact socket

Machine sleeves that withstand non-impact loads during operation.