



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

GB/T 15856.5-2023

**Hexagon washer head drilling screws with tapping screw
thread**

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Table of Contents

Foreword...	3
Introduction...	6
1 Scope...	7
2 Normative references...	7
3 Terms and definitions...	8
4 Types and dimensions...	8
5 Technical requirements...	10
6 Marks and labels...	11
7 Marking...	11
References...	12

Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents.

This document is part 5 of GB/T 15856 Drilling screws with tapping screw thread. The following parts of GB/T 15856 have been issued:

- GB/T 15856.1 Cross recessed pan head drilling screws with tapping screw thread;
- GB/T 15856.2 Cross recessed countersunk head drilling screws with tapping screw thread;
- GB/T 15856.3 Cross recessed raised countersunk head drilling screws with tapping screw thread;
- GB/T 15856.4 Hexagon flange head drilling screws with tapping screw thread;
- GB/T 15856.5 Hexagon washer head drilling screws with tapping screw thread.

This document replaces GB/T 15856.5-2002 Hexagon washer head drilling screws with tapping screw thread. Compared with GB/T 15856.5-2002, except for the structural adjustment and editorial revisions, the main technical changes are as follows:

- a) The diameter d_a and the corresponding value are added (see Figure 1 and Table

1);

b) Ig is changed to Im (see Figure 1 and Table 1; see Figure 1 and Table 1 of the

2002 edition);

c) r1 is changed to the specified minimum value (see Table 1; see Table 1 of the

2002 edition);

d) The requirements for marks and labels are added (see Chapter 6).

This document is modified in relation to ISO 15480:2019 Fasteners - Hexagon washer head drilling screws with tapping screw thread.

Compared with ISO 15480:2019, the following structural adjustments are made to this document:

-- The chapter "Marks and labels" is added;

-- Chapter 7 corresponds to Chapter 6 of ISO 15480:2019.

Hexagon washer head drilling screws with tapping screw thread

1 Scope

This document specifies the types and dimensions, technical conditions, marks and labels, and marking of hexagon washer head drilling screws with tapping screw thread.

This document is applicable to hexagon washer head drilling screws with tapping screw thread with thread specifications of ST 2.9 ~ST 6.3, made of steel, and of product grade A.

2 Normative references

The following documents contain the provisions which, through normative reference in this document, constitute the essential provisions of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments) is applicable to this document.

GB/T 90.1 Fasteners - Acceptance inspection (GB/T 90.1-2023, ISO 3269:2019,

MOD)

GB/T 90.2 Fasteners - Marking and packaging

GB/T 1237 Designation system for fasteners (GB/T 1237-2000, eqv ISO 8991:1986)

GB/T 3098.11 Mechanical properties of fasteners - Drilling screws with tapping screw thread (GB/T 3098.11-2002, idt ISO 10666:1999)

GB/T 3099.4 Terminology of fasteners - Control, inspection, delivery, acceptance and quality (GB/T 3099.4-2021, ISO 1891-4:2018, MOD)

GB/T 3103.1 Tolerances for fasteners - Bolts, screws, studs and nuts (GB/T 3103.1-2002, idt ISO 4759-1:2000)

GB/T 5267.1 Fasteners - Electroplate coating (GB/T 5267.1-2023, ISO 4042:2022, MOD)

GB/T 5276 Fasteners - Bolts, screws, studs and nuts - Symbols and descriptions of

6.1 Product marks

The product marks shall be in accordance with the provisions of GB/T 3098.11.

6.2 Packaging labels

Packaging labels shall comply with the provisions of GB/T 3098.11, at least including the following content:

- the number of this document, i.e. GB/T 15856.5;
- the thread specification and nominal length l;
- the type of surface treatment;
- the identification mark or name of the manufacturer and/or distributor;
- The manufacturing batch number specified in GB/T 3099.4;
- the number of packages.

7 Marking

The marking method shall be in accordance with the provisions of GB/T 1237.

EXAMPLE: For a hexagon washer head drilling screw with tapping screw thread with a thread

specification of ST3.5, a nominal length l of 16 mm, and an untreated surface, which is made of steel, of

product grade A, and has the mechanical properties that are in accordance with GB/T 3098.11, the mark

is as follows:

Drilling screw with tapping screw thread GB/T 15856.5 ST 3.5x16

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