

Indian Standard IS 1363 (Part 2) : 2023 – Your Guide to Strong and Durable Hexagonal Head Screws

Fasteners play a key role in the assembly of various elements in any machine. Fasteners may be permanent or removable. In the category of removable fasteners, Hexagonal Head Screws, Nuts and Bolts occupy a prominent place.

Hexagonal head screws are a type of screw with hexagon shaped heads. These screws are widely used in **construction and building, automotive industry, machinery and equipment and furniture** etc.

Hexagonal Head Screws should be able to withstand the tightening torque, should have proper dimensional accuracy and should be versatile in usage.

IS 1363 (Part 2) : 2023 prescribes various **dimensions of Hexagonal Head Screws of sizes M 5 to M 64**. The standard also prescribes the **General Requirements, Threads and Tolerance Class, Mechanical Properties, Tolerances, Surface Conditions, Surface Integrity and Acceptability Requirements**. All these requirements ensure **proper fit** of the screws with their mating parts and **interchangeability**.

To ensure the **traceability** of Hexagonal Head Screws various **marking requirements and labelling on package** have also been included in **IS 1363 (Part 2) : 2023**.

Keeping in mind the criticality of Hexagonal Head Screws as a fastening elements and the serious implications in case of their failure, the **Ministry of Commerce and Industry** issued a **Quality Control Order for Bolts, Nuts, and Fasteners**, specifying adherence to various Indian Standards including **IS 1363 (Part 2)**. The Hexagonal Head Screw must carry the Standard Mark under a BIS license as per Scheme-1 of the Bureau of Indian Standards (Conformity Assessment) Regulations, 2018.

For safe assembly of any components it is prudent and cost effective to buy Hexagonal Head Screws conforming to **IS 1363 (Part 2)** certified under **BIS Licence**.