



IS 1364 (Part 2): 2023

Hexagon Head Bolts, Screws and Nuts of Product Grades A and B Part 2 Hexagon Head Screws (Size Range M1.6 to M64)

Hexagon head **bolts**, **screws**, and **nuts** refer to **fasteners** with a hexagonal head, typically used with a nut or tapped hole for joining materials, in a variety of mechanical and structural applications. **Hexagon Head Screws** are a type of screw with a hexagon-shaped head, meaning it has six flat sides. This design makes it easy to tighten or loosen the screw using a wrench or spanner. They are very common in construction, machinery, automotive, and DIY projects because they can hold parts together tightly and withstand a lot of force.

When consumers seek good-quality hexagon head screws, they expect durability, reliability, and suitability for their purpose. High-quality screws that are typically made from strong materials like carbon or stainless steel, offering resistance to wear, especially under heavy loads, and corrosion prevention for outdoor use. Precision threading and consistent dimensions, which is crucial for a secure hold. A smooth finish and protective coatings extend lifespan, and a precisely shaped hexagonal head to ensure a snug fit with tools. Clear markings on the head to allow users to easily identify the screw's grade and material, which is critical for safety and application reliability.

The product defined in IS 1364 (Part 2) is Hexagon Head Screws in sizes ranging from M1.6 to M64, commonly used in a variety of mechanical and structural applications. The standard provides detailed dimensions for screws, ensuring consistency and interchangeability. It further specifies mechanical properties and tolerances, guaranteeing the strength, durability, and reliability of screws, also defines surface conditions and coatings, addressing corrosion resistance and aesthetic requirements and establishes clear marking and labelling guidelines, enabling consumers to identify and select the correct screws for their needs.

The DPIIT Quality Control Order mandates that Hexagon Head Screws and Nuts of Product Grades A and B shall conform with IS 1364 (Part 2): 2023 and bear Standard Mark under a licence from BIS.