

IS 5604: 2018- Specification for hand - Operated universal gearless pulling and lifting machines

IS 5604:1984 provides specifications for hand-operated, gearless pulling and lifting machines, commonly used for hoisting, pulling, and tensioning in various industrial and construction applications. These machines are designed for lifting and pulling heavy loads without the use of gears, making them a compact, versatile, and reliable option for users. The standard ensures that the product meets essential quality, safety, and operational requirements, providing guidelines for manufacturing, materials, and testing to maintain high performance standards.

Consumers expect these machines to be durable, efficient, and safe for frequent heavy-duty use. Key quality parameters include load-bearing capacity, mechanical efficiency, safety features, and resistance to wear and tear. Reliability under stress and ease of maintenance are also critical. For safe operation, consumers also require that these machines meet specific standards for factors like lifting height, tensile strength, and load handling to avoid failure during use.

IS 5604:1984 addresses these expectations by setting rigorous requirements for the materials used, design specifications, and mechanical testing. It outlines detailed mechanical tests like proof loading, break load testing, operational tests, etc. to assess the machine's load-handling ability and efficiency, ensuring they meet predefined performance standards. By adhering to these specifications, manufacturers ensure that the machines meet consumer expectations for quality, safety, and reliability, aligning with the standard's commitment to high-performance and user protection.