

Specification for

Hand operated plate sided winches

Co-operating organizations

The Mechanical Engineering Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

Admiralty*	High Commission of India
Air Ministry	Institute of Marine Engineers
Associated Offices' Technical Committee*	Institute of Petroleum
Association of Consulting Engineers (Incorporated)	Institution of Civil Engineers
Association of Mining Electrical and Mechanical Engineers	Institution of Gas Engineers
British Chemical Plant Manufacturers' Association	Institution of Heating and Ventilating Engineers
British Compressed Air Society	Institution of Mechanical Engineers
British Electrical and Allied Manufacturers' Association	Institution of Mechanical Engineers (Automobile Division)
British Gear Manufacturers' Association	Institution of Production Engineers
British Internal Combustion Engine Manufacturers' Association	Locomotive and Allied Manufacturers' Association of Great Britain
British Iron and Steel Federation	London Transport Board
British Mechanical Engineering Federation	Machine Tool Trades Association
British Railways Board	Ministry of Labour (H.M. Factory Inspectorate)*
Crown Agents for Oversea Governments and Administrations	Ministry of Power
D.S.I.R. — National Engineering Laboratory	Ministry of Public Building and Works
Electricity Council, the Generating Board and the Area Boards in England and Wales*	Ministry of Transport
Engineering Equipment Users' Association*	National Coal Board
Gas Council	National Physical Laboratory (D.S.I.R.)
	Radio Industry Council
	War Office*

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following were directly represented on the Committee entrusted with the preparation of this standard:

Association of Lifting Tackle Makers	Machine Made Chain Manufacturers Association
British Constructional Steelwork Association	National Association of Iron and Steel Stockholders
Chain Testers Association of Great Britain	National Federation of Building Trades Employers
Council of British Manufacturers of Petroleum Equipment	National Federation of Demolition Contractors
Dock & Harbour Authorities Association	North East Coast Institution of Engineers and Shipbuilders
Federation of Civil Engineering Contractors	Post Office
Federation of Wire Rope Manufacturers of Great Britain	Individual makers and users
Hard Fibre Cordage Institute	
Honourable Company of Master Mariners	
Institution of Plant Engineers	

This British Standard, having been approved by the Mechanical Engineering Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 5 February 1964

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Foreword

This standard makes reference to the following British Standards:

BS 15, *Mild steel for general structural purposes.*

BS 46, *Keys and keyways and taper pins — Part 1: Keys and keyways.*

BS 302 & 621, *Steel wire ropes for cranes, excavators and general engineering purposes.*

BS 309, *Whiteheart malleable iron castings.*

BS 310, *Blackheart malleable iron castings.*

BS 592, *Carbon steel castings for general purposes.*

BS 693, *General requirements for oxy-acetylene welding of mild steel.*

BS 970, *Wrought steels in the form of bars, billets, and forgings, up to 6 in ruling section, for automobile and general engineering purposes. En series.*

BS 1452, *Grey iron castings.*

BS 1856, *General requirements for the metal-arc welding of mild steel.*

BS 3468, *Austenitic cast iron.*

This British Standard has been prepared to clarify the meaning of terms relating to hand-operated plate-sided winches and to ensure that there is understanding of the performance required and available, and that the winch is able to provide and maintain the stated performance.

Winches complying with this standard are designed to be operated when bolted to a firm foundation which will prevent racking, crabbing or horizontal movement. It is assumed that all lifting of other than insignificant loads will be done in slow speed gear. In a higher gear, supposing the operators were strong enough to lift the safe working load, the safety factor would be exceeded for the shafts and gears.

Lists of information which should be supplied by the purchaser with the enquiry or order and by the manufacturer when tendering are given in Appendix A and Appendix B. Another appendix provides recommendations relating to contracts.

The requirements of this standard are based on the assumption that the winch will be properly used. To assist the user Appendix E has been provided giving recommendations for care and safe use of a hand winch.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 7 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.