

Specification for

Open-ended wrenches

UDC 621.883.1

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Cooperating organizations

The Mechanical Engineering Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following:

Associated Offices Technical Committee	Department of Trade (Marine Division)
Association of Consulting Engineers	Department of Transport
Association of Hydraulic Equipment Manufacturers	Electricity Supply Industry in England and Wales
Association of Mining Electrical and Mechanical Engineers	Energy Industries Council
British Compressed Air Society*	Engineering Equipment Users' Association*
British Constructional Steelwork Association	Federation of Manufacturers of Construction Equipment and Cranes
British Electrical and Allied Manufacturers' Association (BEAMA)	Health and Safety Executive
British Gas Corporation	Institution of Gas Engineers
British Gear Manufacturers' Association	Institution of Mechanical Engineers
British Internal Combustion Engine Manufacturers' Association	Institution of Plant Engineers
British Pump Manufacturers' Association	Institution of Production Engineers*
British Steel Corporation	Lloyd's Register of Shipping
British Steel Industry	London Transport Executive
British Valve Manufacturers' Association Ltd.	Machine Tool Industry Research Association
Chartered Institution of Building Services	Ministry of Defence*
Crown Agents for Oversea Governments and Administrations	National Coal Board*
Department of Industry (Mechanical Engineering)*	Oil Companies Materials Association
Department of Industry (National Engineering Laboratory)	Process Plant Association
Department of the Environment (PSA)	Society of Motor Manufacturers and Traders Limited*
	Telecommunication Engineering and Manufacturing Association (TEMA)
	Water-tube Boilermakers' Association

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

Agricultural Engineers Association	National Association of Drop Forgers and Stampers
Federation of British Hand Tool Manufacturers	Post Office
Furniture, Timber and Allied Trades Union	

This British Standard, having been prepared under the direction of the Mechanical Engineering Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 December 1982

© BSI 10-1999

First published July 1906
Issued and revised as BS 192 October 1924
Second revision November 1943
Third revision June 1954
Fourth revision March 1971
Fifth revision December 1982

The following BSI references relate to the work on this standard:
Committee reference MEE/120
Draft for comment 81/74679 DC

ISBN 0 580 13104 1

Amendments issued since publication

Amd. No.	Date of issue	Comments
4376	September 1983	Indicated by a sideline in margin

Contents

	Page
Cooperating organizations	Inside front cover
Foreword	ii
1 Scope	1
2 Material	1
3 Hardness	1
4 Finish	1
5 Marking	1
6 Form and dimensions	1
7 Resistance to torque	1
Appendix A Torque test	6
Figure 1 — Wrench form	1
Figure 2 — Torque test: location of test stud	2
Table 1 — Details of wrenches for metric sizes	3
Table 2 — Details of wrenches for Unified inch series	4
Table 3 — Details of British Standard and Whitworth sizes	5
Publications referred to	Inside back cover

Foreword

This British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee and supersedes BS 192:1971, which is now withdrawn.

It covers open-ended wrenches for ISO metric, Unified and British Standard hexagon size, bolts, nuts and screws.

In this revision, the tolerances on the gaps for metric wrenches have been reduced to provide an improved fit with the metric hexagons and the number of combinations in the metric series has been increased to cover a greater range of sizes.

A further alteration relates to the blank sizes for the inch series, where those used for metric wrenches have been adopted, therefore reducing the overall number of blanks required to cover the complete ranges.

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 6, an inside back cover 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.