International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEX DY APODHAR OP TAH MAALMAR TO CTAHDAPT MAALMOORGANISATION INTERNATIONALE DE NORMALISATION

Assembly tools for screws and nuts – Adjustable wrenches – Width across flats up to 50 mm

Outils de manœuvre pour vis et écrous — Clés à molette — Ouverture jusqu'à 50 mm

First edition – 1982-12-15Teh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 6787:1982</u> https://standards.iteh.ai/catalog/standards/sist/852b9758-f9a4-4eab-b7e8-2791fd8d47b1/iso-6787-1982

Descriptors : tools, assembly tools, wrenches, dimensions, tests, torsion tests.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6787 was developed by Technical Committee ISO/TC 29, VIEW Small tools, and was circulated to the member bodies in January 1981.

It has been approved by the member bodies of the following countries :

	<u>150 0/8/.1982</u>		
Austria		og/standards/sist/852b9758-f9a4-4eab-b7e8-	
Belgium	Italy 2791fc	18 Swedén o-6787-1982	
Brazil	Korea, Dem. P. Rep. of	Switzerland	
China	Korea, Rep. of	United Kingdom	
France	Poland	USA	
Germany, F.R.	Romania	USSR	
Hungary	South Africa, Rep. of		

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia India Japan

© International Organization for Standardization, 1982 •

Assembly tools for screws and nuts – Adjustable wrenches - Width across flats up to 50 mm

iTeh STANDARD PREVIEW (standards.iteh.ai)

Scope and field of application 1

adjustable wrenches for nut assembly of width across thats up iso-6787-1982 to 50 mm and the admissible clearance of the adjustable jaw. It also specifies test conditions to test the suitability of tool performance.

2 References

ISO/R 80, Rockwell hardness test (B and C scales) for steel.

ISO 272, Fasteners — Hexagon products — Widths across flats.

ISO 1703, Assembly tools for screws and nuts – Nomenclature.

ISO 1711, Hand operated wrenches and sockets - Technical specifications.

Dimensions 3

The dimensions, in millimetres, are given in the table (see also the figure).

Clearance of adjustable jaw 4

The clearance *j* between the adjustable jaw and the fixed jaw shall be measured after the adjustable jaw has been exposed to

a slight side pressure in accordance with the figure. The ISO 6787:1982 clearance shall not exceed the value *j* for the size of wrench This International Standard Brecifies the dverall another of the table interactive of which side is to be checked.

> The adjustable jaw shall be machined to permit free travel throughout the range of opening without binding or wedging.

5 Hardness

The hardness of heat-treated wrenches shall be at least 40 HRC. The hardness values shall be tested over the whole of the head.

6 **Torque test**

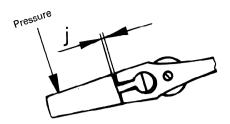
The values of the applicable test torque are equal to those of series C of ISO 1711 multiplied by a factor of 0,8.

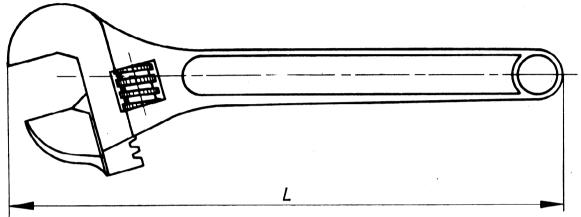
These values are given in the table.

The test procedure shall be as specified in ISO 1711.

Testing shall be carried out on a hexagon test mandrel treated to a minimum hardness of 55 HRC.

After testing, the wrench shall present no permanent deformation nor any other defect that may influence its correct use.





iTeh STANDARD PREVIEW _{Figure} (standards.iteh.ai)

ISO 6787:1982

Nominal overall length L	ds.iteh.avcatalogs Maximum clearance <i>j</i>	tandards/sist/852 4 Hexagon_test bar across flats	09/58-19a4-4eat 87est torque ¹⁾ 82 <i>M</i> min. N·m	-b7e8-
100	0,25	12	33	
150	0,25	17	85	
200	0,28	22	180	
250	0,28	27	320	
300	0,30	32	515	
375	0,30	41	920	
450	0,36	50	1 370	

1) *M* is equal to the test torques of series C in ISO 1711 multiplied by a coefficient of 0,8.