

INTERNATIONAL STANDARD

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Passenger cars — Wiper systems — Shaft ends and arm-holes

*Voitures particulières — Dispositifs d'essuie-glace — Bouts d'axes de
fixation et trou de fixation sur le porte-balai*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9704 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

Annex A forms an integral part of this International Standard.

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Passenger cars — Wiper systems — Shaft ends and arm-holes

1 Scope

This International Standard specifies the main dimensions and general requirements for wiper arm to shaft end connections of wiper systems used on passenger cars. It also applies to wiper arm to shaft end connections of other vehicles where no specific International Standard exists.

Type 1 is the preferred type. Type 2, which is given in annex A, is still used in some countries.

2 Type 1: Tapered, knurled shaft ends and connections

Shaft ends for wiper systems shall meet the requirements specified in 2.1 to 2.5. Details not specified are left to the manufacturer's choice.

2.1 Tapered, knurled shaft end dimensions

Shaft end dimensions shall meet the requirements shown in figure 1 and table 1.

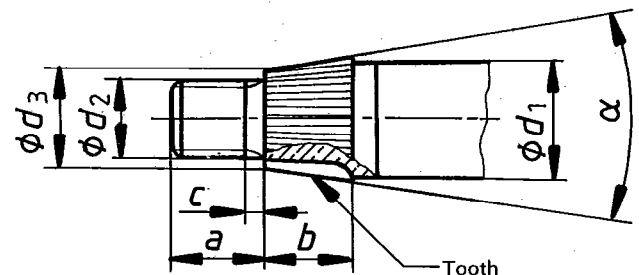


Figure 1

Table 1

Nominal diameter d_1 mm	Thread d_2 	a min. mm	b min. mm	c max. mm	Tip diameter d_3 0 -0,15 mm	Number of teeth ¹⁾ tol.		Nominal taper	Cone angle ²⁾ α +2° 0
6	M5	5,8	2,4	1,2	5,3	29	± 2	1 : 4	14°15'
8	M6	6,8	3,9	1,7	6,6	33		1 : 3	18°55'
10	M8	8,8		2	8,6	41	± 3		
12	M8		5			37			
	M10	9,8	3,9		10,6	50			

1) The profile of the teeth on the manufacturing tool shall have a tip angle of 90°.

2) Measured at the top of the teeth.