INTERNATIONAL STANDARD

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Commercial vehicles — Wheel–hub attachment dimensions

Véhicules utilitaires — Caractéristiques dimensionnelles de la fixation de la roue sur le moyeu

Reference number
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Foreword

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ISO 4107 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 19, *Wheels*.

This fourth edition cancels and replaces the third edition (ISO 4107:1998), which has been technically revised to include aluminium wheels and to add tolerances and modifications to the existing dimensions.

Introduction

This International Standard was developed in response to requests to establish uniform wheel–hub interface dimensions used on vehicles with flat attachment-style wheel mountings. There are other dimensional and performance characteristics of the wheel system that also need to be evaluated to ensure proper usage on a vehicle.

Commercial vehicles — Wheel–hub attachment dimensions

1 Scope

This International Standard specifies the dimensions necessary for the attachment of a commercial road vehicle wheel on the hub of the vehicle whose fixing has six, eight or ten stud holes.

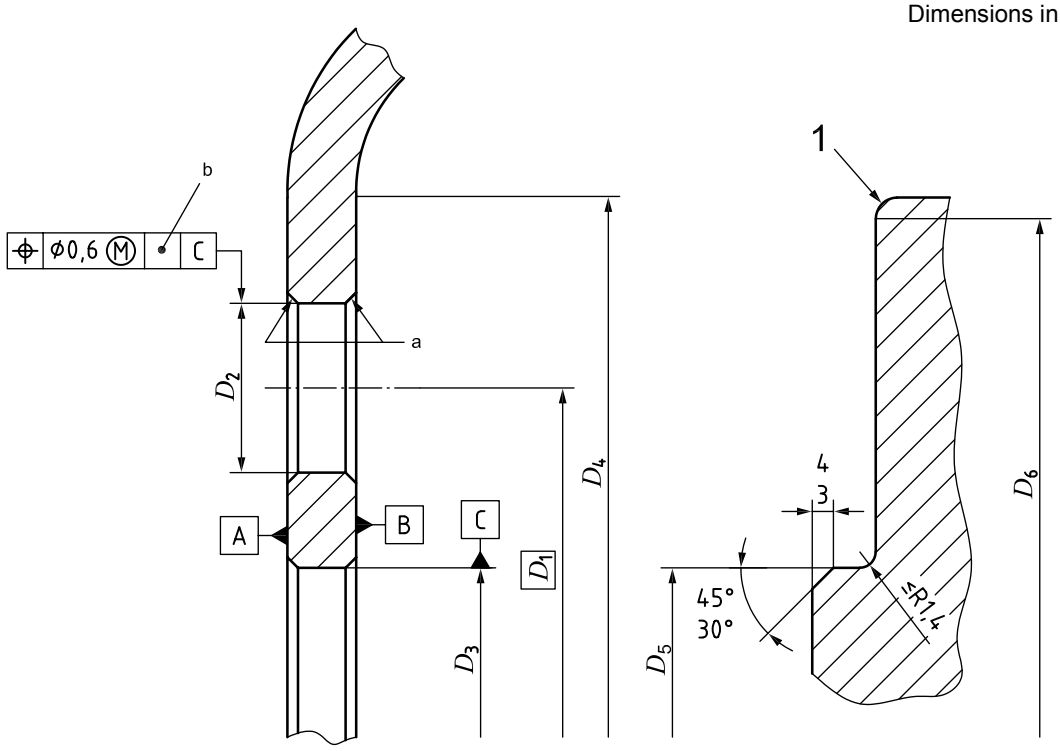
This International Standard considers the flat attachment type with centring on central bore, which is the recommended type for future equipment. Other types are currently in use.

The specifications do not imply that the wheel is interchangeable from one vehicle to another.

2 Flat attachment with centring on central bore

The dimensions of the wheel and hub shall be as specified in Figure 1 and Table 1.

Dimensions in millimetres



Key

1 sharp edge broken by radius or chamfer

NOTE The wheel support is shown on the right for information.

a Break sharp edge.

b A or B.

Figure 1 — Dimensions of wheel and hub

Table 1 — Dimensions

Dimensions in millimetres

Number of studs	Bolt circle diameter D_1	Bolt hole diameter D_2 $\left(^{+1}_{0}\right)$	Central bore diameter[a] D_3 $\left(^{+0,2}_{0}\right)$		Disc flat diameter D_4 min.	Stud[b]	Wheel support[b] D_5 $\left(^{0}_{-0,2}\right)$	Wheel support[b] D_6 $\left(^{+1}_{0}\right)$
			Ferrous	Aluminium				
6	205	21	161	161,2	255	18	160,8	250
	245		202	202,2	295		201,8	290
8	222,25	24	164	164,2	280	20	163,8	277
	275[c]		221	221,2	325		220,8	320
10	285,75	26	220	220,2	345	22	219,8	340
	335		281	281,2	390		280,8	385

a Continuous centre bore chamfer $1{,}5^{+1}_{0} \times 45°$ at least on contact side or on both sides.

b For information.

c Optional construction: $D_2 = 26$ mm with 22 mm stud.

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