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# INTERNATIONAL STANDARD



# 4107

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Road vehicles — Wheels for commercial vehicles — Dimensional characteristics of attachment on hub

*Véhicules routiers — Roues pour véhicules utilitaires — Caractéristiques dimensionnelles de la fixation sur le moyeu*

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**Descriptors** : road vehicles, commercial road vehicles, machine elements, wheels, vehicle wheels, hubs, dimensions.

Price based on 4 pages

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (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 set up 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 4107 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in July 1977.

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

Austria	Japan	South Africa, Rep. of
Belgium	Korea, Dem. P. Rep. of	Spain
Chile	Korea, Rep. of	Sweden
Czechoslovakia	Mexico	Switzerland
France	Netherlands	USA
Germany, F.R.	Poland	USSR
Iran	Romania	Yugoslavia

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

Italy  
United Kingdom

# Road vehicles — Wheels for commercial vehicles — Dimensional characteristics of attachment on hub

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## 1 SCOPE

This International Standard specifies the dimensional characteristics necessary for the attachment of the wheel on the hub. The flat attachment type with centring on central bore is the recommended type for future equipment.

In the annex are shown the characteristics of attachments with spherical or conical centring on the stud hole.

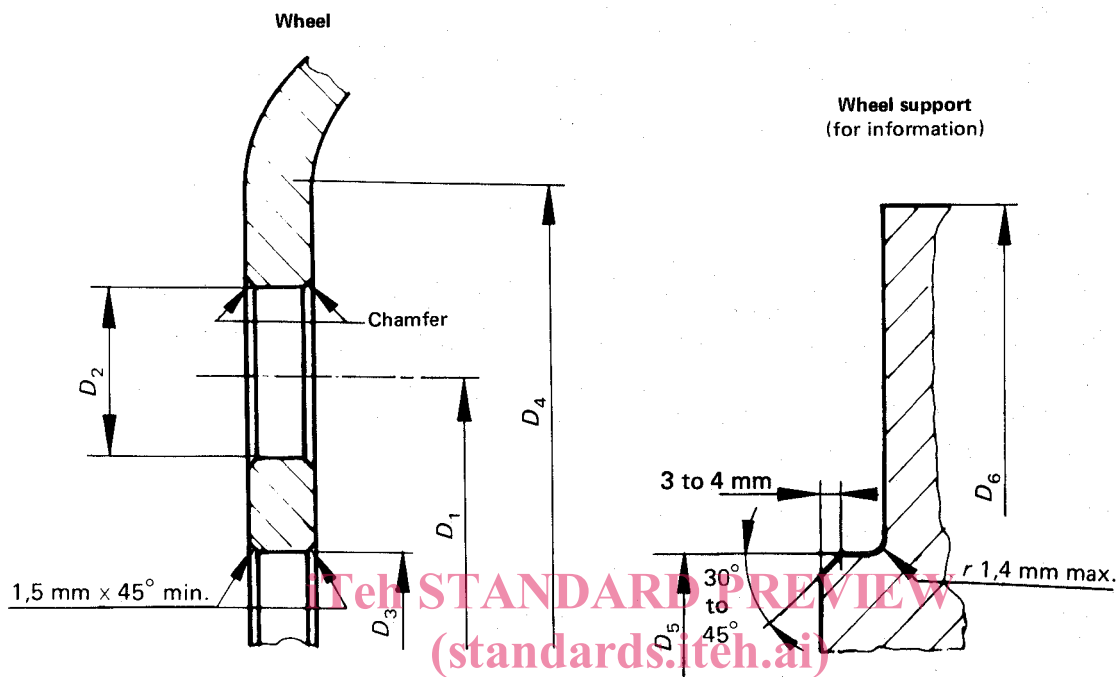
The specifications indicated hereafter do not imply that the wheel is interchangeable from one vehicle to another.

## 2 FIELD OF APPLICATION

This International Standard applies to wheel attachments for commercial vehicles whose fixing includes 6, 8 and 10 stud holes.

3 FLAT ATTACHMENT WITH CENTRING ON CENTRAL BORE

The dimensions of the wheel and hub are as shown in the figure and table.



ISO 4107:1979  
FIGURE — Dimensions of wheel and hub  
<https://standards.iteh.ai/catalog/standards/sist/c9243627-e985-4b58-9159-9bae24ad4b09/iso-4107-1979>

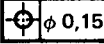
TABLE — Dimensional characteristics

Dimensions in millimetres

Number of studs	$D_1$ Bolt circle $\phi$	$D_2 \begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$ Bolt hole $\phi$	$D_3 \begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$ Central bore $\phi$	$D_4$ min. Disc flat $\phi$	For information		
					Stud	Wheel support	
					$\phi$	$D_5 \begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$	$D_6 \begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$
6	205	21	161	255	18	160,8	250
8	275	24	221	325	20	220,8	320
10	285,75	26	220	345	22	219,8	340
	335		281	390	22	280,8	385

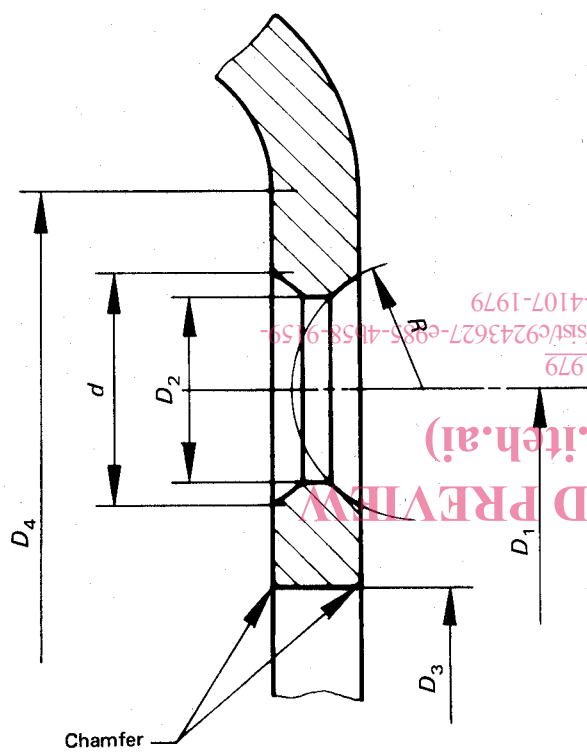
A.3 DIMENSIONAL CHARACTERISTICS OF ATTACHMENTS WITH SPHERICAL OR CONICAL CENTRING ON THE STUD HOLE

Dimensions in millimetres

Number of studs	$D_1$  $\phi 0,15$ Pitch circle $\phi^{1)}$ of the stud/nut seating	$D_2^{+0,8}_0$ $\phi$ of the stud hole	$d^{+0,5}_0$ $\phi$ of the countersink of the hole	$R$ Radius of the countersink of the hole	$\alpha^\circ \pm 1^\circ$ Angle of the countersink of the hole	$D_3$ min. $\phi$ of the central bore	$D_4$ min. $\phi$ of the disc flat
6	170	21,8	26,7	16	—	130	223
	170	21,8	26,7	—	80	130	223
	205	21,5	27	16	—	161	255
	205	21,8	26,7	16	—	161	255
8	205	25	31,0	—	80	161	255
	222,2	30,5	37,1	22,2	—	165	290
	165	17	32	—	90	116	212
	275	21,8	26,7	16	—	221	325
10	275	27	32	18	—	221	320
	275	25	31	—	80	221	325
	222,2	30,5	37,1	22,2	—	165	290
	225	27	32	18	—	176	270
10	285,75	30,5	37,1	22,2	—	222	345
	335	21,8	26,7	16	—	281	390
	335	25	31	—	80	281	390
	335	27	32	18	—	281	380
10	335	37	46,2	30,2	—	271,5	402

1) Stud and/or nut seating (spherical or conical countersink) centres to be within 0,15 mm diameter of true position.

## ANNEX

ATTACHMENTS WITH SPHERICAL OR CONICAL CENTRING ON THE STUD HOLE  
(NO CENTRING ON CENTRAL BORE)A.1 WHEEL WITH SPHERICAL COUNTERSINK OF  
THE HOLEA.2 WHEEL WITH CONICAL COUNTERSINK OF  
THE HOLE