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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.

## 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

## 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.

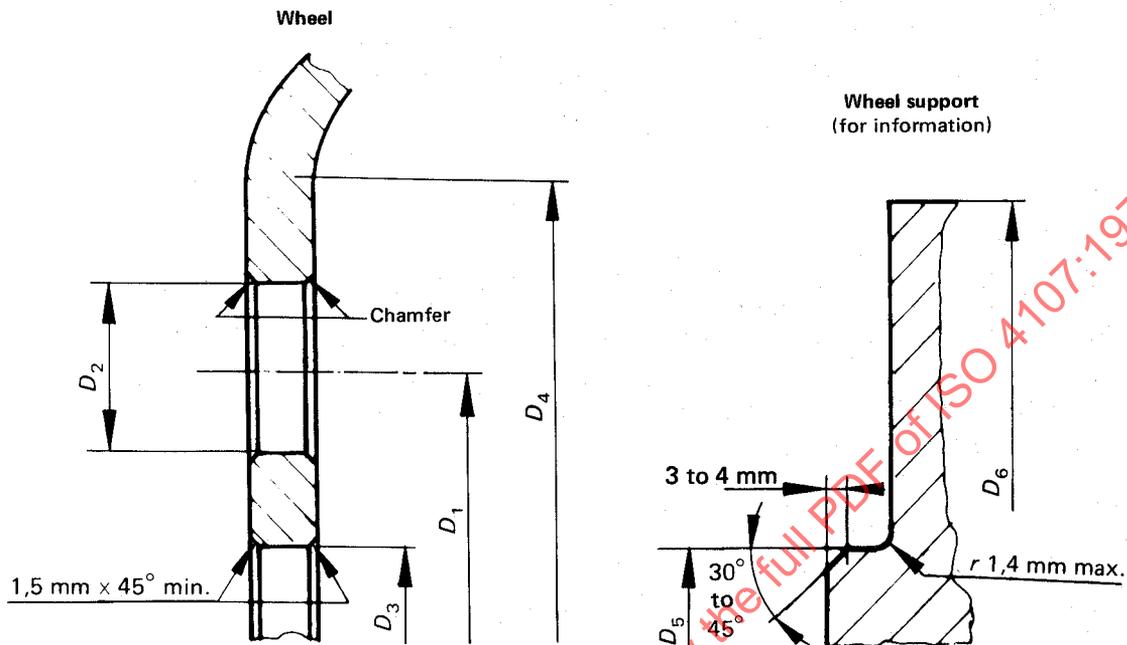


FIGURE – Dimensions of wheel and hub

TABLE – Dimensional characteristics

Dimensions in millimetres

| Number of studs | $D_1$<br><br>Bolt circle $\phi$ | $D_2 \begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$<br>Bolt hole $\phi$ | $D_3 \begin{smallmatrix} +0,2 \\ 0 \end{smallmatrix}$<br>Central bore $\phi$ | $D_4$ min.<br>Disc flat $\phi$ | For information |   |   |
|-----------------|--|---|--|--------------------------------|-----------------|---|---|
|                 |  |   |  |                                | $\phi$          | Wheel support   |   |
|                 |  |   |  |                                |                 | $D_5 \begin{smallmatrix} 0 \\ -0,2 \end{smallmatrix}$ | $D_6 \begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$ |
| 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   |