International Standard





INTERNATIONAL ORGANIZATION FOR STANDARDIZATION+ME# CHARACOLAR OF CALLAR OF CALLA

## Pulleys for flat transmission belts - Crowns

Poulies pour courroies plates de transmission - Bombement

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### Foreword

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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 100 was developed by Technical Committee ISO/TC 41 *Pulleys and belts (including veebelts)*, and was circulated to the member bodies in March 1983.

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

Australia Austria Belgium Czechoslovakia Finland France Germany, F.R. India Italy Japan Korea, Dem. P. Rep. of Mexico South Africa, Rep. of Spain Sweden United Kingdom USA USSR

No member body expressed disapproval of the document.

This second edition cancels and replaces the first edition (i.e. ISO 100-1975).

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# Pulleys for flat transmission belts - Crowns

#### 1 Scope and field of application

This International Standard lays down the shape and the minimum dimensions of crowns for flat transmission belts.

NOTE - The rim-widths and the diameters (and tolerances) of these pulleys are given in ISO 22 and ISO 99 respectively.

#### 2 Shape of crown

It is recommended that the shape of the profile should be a regular, symmetrical curve.

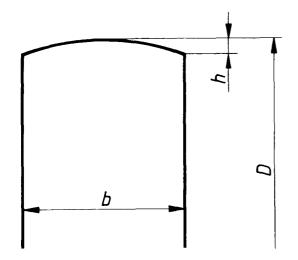
A symmetrical profile with a flat central part is acceptable provided that

a) the flat part is tangential to the curve;

b) its width is not more than 40 % of the width of the pulley.

### 3 Minimum dimensions of crown

The height of the crown h of a pulley for a flat transmission belt is given by one of the following tables, and varies with the diameter D of the pulley (and, for the larger diameters, with the width b of the rim).



#### 3.1 Pulley diameters $40 \le D \le 710$

For this series of pulley diameters, the crown height varies only with the diameter of the pulley and is unrelated to the width of the rim.

	Dimensions in millimetres	
Pulley diameter D	Crown h <sub>min</sub>	
40 < <i>D</i> < 112	0,3	
$125 \le D \le 140$	0,4	
160 < <i>D</i> < 180	0,5	
200 < <i>D</i> < 224	0,6	
$250 \le D \le 355$	0,8	
400 < <i>D</i> < 500	1,0	
560 < <i>D</i> < 710	1,2	

#### 3.2 Pulley diameters 800 $\leq D \leq$ 2 000

For this series of pulley diameters, the crown height varies with both the diameter of the pulley and the width.

Crown h <sub>min</sub>	
1,2	1,5
1,5	2,0
1,8	2,5
52	
	1,2