

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 100

CROWNS OF PULLEYS FOR FLAT TRANSMISSION BELTS

1st EDITION

February 1959

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 100, *Crowns of Pulleys for Flat Transmission Belts*, was drawn up by Technical Committee ISO/TC 41, *Pulleys and Belts (including Vee-Belts)*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

It was at its third meeting, held in Stockholm, in June 1955, that the Technical Committee unanimously adopted by the delegates present the resolution on which this ISO Recommendation is based.

At the end of the Stockholm meeting, a draft proposal was distributed to the members of the Technical Committee. The comments formulated during this enquiry were examined by the appropriate Working Group which met in Munich, in October 1956, and which proposed a few modifications. A second draft proposal was then distributed to the members of the Technical Committee and was adopted as a Draft ISO Recommendation.

On 16 May 1957, the Draft ISO Recommendation was distributed to all the ISO Member Bodies and was approved, without reserve, by the following 22 (out of a total of 38) Member Bodies:

*Austria	Germany	*Portugal
Belgium	*Greece	Romania
*Bulgaria	*India	Spain
*Canada	*Ireland	Sweden
Czechoslovakia	Italy	Switzerland
Denmark	Japan	Union
Finland	Pakistan	of South Africa
France		U.S.S.R.

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in February 1959, to accept it as an ISO RECOMMENDATION.

* These Member Bodies stated that they had no objection to the Draft being approved.

CROWNS OF PULLEYS FOR FLAT TRANSMISSION BELTS

1. PURPOSE

This ISO Recommendation lays down the shape and the approximate dimensions of crowns of pulleys for flat transmission belts.*

2. SHAPE OF CROWN

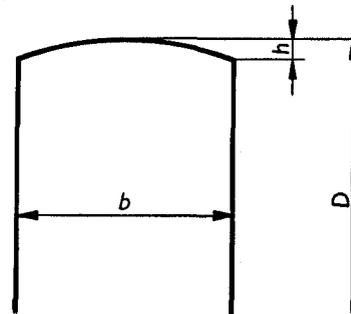
It is recommended that the shape of the profile should be a regular, symmetrical curve.

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 per cent of the width of the pulley.

3. APPROXIMATE 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 of the pulley (and, for the larger diameters, with the width of the rim).



3.1 Diameters from 40 to 355 mm inclusive: *Crown unrelated to the width.*

Metric series

DIMENSIONS IN MILLIMETRES

Diameter D	Crown h
40 to 112	0.3
125 and 140	0.4
160 and 180	0.5
200 and 224	0.6
250 and 280	0.8
315 and 355	1

Inch series

DIMENSIONS IN INCHES

Diameter D	Crown h
1.6 to 4.5	0.012
5 and 5.6	0.016
6.3 and 7.1	0.020
8 and 9	0.024
10 and 11.2	0.030
12.5 and 14	0.040

* The rim-widths and the diameters (and tolerances) of these pulleys are given respectively in ISO Recommendations R 22, *Widths of flat transmission belts and corresponding pulleys* and R 99, *Diameters of pulleys for flat transmission belts*.