Ref. No.: ISO / R 99 - 1959 (E)

# ISO

# INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

# ISO RECOMMENDATION OF THE DIAMETERS OF THE STATE OF THE S

FOR FLAT TRANSMISSION BELTS

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1st EDITION
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# BRIEF HISTORY

The ISO Recommendation R 99, Diameters of Pulleys for Flat Transmission Belts, was drawn up by Technical Commmittee 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 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 24 (out of a total of 38) Member Bodies:

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

<sup>\*</sup> These Member Bodies stated that they had no objection to the Draft being approved.

# DIAMETERS OF PULLEYS FOR FLAT TRANSMISSION BELTS

## 1. PURPOSE

This ISO Recommendation lays down the diameters and tolerances of pulleys for flat transmission belts. \*

# 2. DEFINITION

The diameter of a pulley for a flat transmission belt is the diameter measured in the plane of symmetry of its rim.

## 3. DIAMETERS

TABLE 1. - Series of diameters

630 710	25
710	25
	28
800	31.5
900	35.5
1 000	40
1 120	45
1 250	50
1 400	56
1 600	63
1 800	71
2 000	80
•	
	1 600 1 800

The values given in Table 1 are taken from the R 20 series of preferred numbers as given in ISO Recommendation R 3, Preferred Numbers - Series of Preferred Numbers.

# Notes

- 1. These diameters differ slightly according to whether they are expressed in metric units or inches. For practical purposes they may be considered as equivalents.
- 2. In the present state of engineering practice, the following rounding off is permitted in the case of certain inch values.

TABLE 2. — Rounding off in inches

Normal values	Rounded-off values	Normal values	Rounded-off values
1.6	1 1/2	11.2	11
1.8	1 3/4	12.5	12
2.8	2 3/4	22.4	22
3.15	3	31.5	32
3.55	3 ½	35,5	36
5.6	5 1/2	56	55
6.3	6	63	62
7.1	7	71	70

<sup>\*</sup> The rim-widths and the crowns of these pulleys are given respectively in ISO Recommendations R 22, Widths of flat transmission belts and corresponding pulleys and R 100, Crowns of pulleys for flat transmission belts.