

Transformed

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 22

WIDTHS OF FLAT TRANSMISSION BELTS
AND CORRESPONDING PULLEYS

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BRIEF HISTORY

The ISO Recommendation R 22 was prepared by the Technical Committee ISO/TC 41, *Pulleys and belts (including vee-belts)*, the Secretariat of which is held by the Association Française de Normalisation.

It was at its Lisbon meeting in April 1953 that the Committee adopted the resolutions on which the present Recommendation is based. From then on, the chosen values were taken from the R 10 and R 20 series of preferred numbers.

After the Lisbon meeting, the Secretariat circulated a first draft proposal and subsequently a second one to take account of the few comments received (unification of tolerances on widths for all possible constituent materials of pulleys and belts, possibility of adopting some other correspondence than provided for ordinary transmissions).

Following the circulation of the second draft proposal, an addition was made to the footnote to the table of widths, in an attempt to meet the only comment received, without compromising the general agreement of the other Member Bodies who had replied.

The draft thus amended was sent to the General Secretariat, which placed it before all the ISO Member Bodies as Draft ISO Recommendation.

The following 21 (out of a total of 35) Member Bodies approved the Draft without reserve:

Austria	France	Pakistan
Belgium	Germany	Portugal
Bulgaria	Ireland	Spain
Chile	Italy	Switzerland
Czechoslovakia	Japan	Union of South Africa
Denmark	Mexico	U.S.S.R.
Finland	Netherlands	Yugoslavia

However, the United Kingdom and Indian Member Bodies did not approve it. Finally it must be recorded that the Swedish and Norwegian Member Bodies abstained.

Following further consideration of the United Kingdom's and India's comments, the Secretariat requested the General Secretariat to submit the Draft to the ISO Council. In November 1956 the latter decided, by correspondence, to accept it as an ISO RECOMMENDATION.

WIDTHS OF FLAT TRANSMISSION BELTS AND CORRESPONDING PULLEYS

The present Recommendation defines the widths of flat transmission belts and of the corresponding pulleys, and also the tolerances on widths, without regard to the constituent materials of such belts and pulleys.

BELTS					PULLEYS			
Ordinary correspondence *								
WIDTHS		TOLERANCES		WIDTHS		TOLERANCES		
Millimetres	Inches	Millimetres	Inches	Millimetres	Inches	Millimetres	Inches	
16	0.63			20	0.8			
20	0.8			25	1			
25	1			32	1.25			
32	1.25	± 2	± 0.08	40	1.6	± 1	± 0.04	
40	1.6			50	2			
50	2			63	2.5			
63	2.5			71	2.8			
71	2.8			80	3.15			
80	3.15			90	3.55			
90	3.55	± 3	± 0.12	100	4	± 1.5	± 0.06	
100	4			112	4.5			
112	4.5			125	5			
125	5			140	5.6			
140	5.6			160	6.3			
160	6.3			180	7.1			
180	7.1	± 4	± 0.16	200	8	± 2	± 0.08	
200	8			224	9			
224	9			250	10			
250	10			280	11.2			
280	11.2			315	12.5			
315	12.5			355	14			
355	14	± 5	± 0.20	400	16	± 3	± 0.12	
400	16			450	18			
450	18			500	20			
500	20			560	22.4			
				630	25.0			

* If, for any technical reason, it is preferable to use a wider pulley for a particular belt — as frequently occurs with the narrower belts — such a pulley can be chosen from series of pulleys given in the above table.