
INTERNATIONAL STANDARD



1816

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Continuous mechanical handling equipment for loose bulk materials and unit loads — Belt conveyors — Basic characteristics of motorized driving pulleys

Engins de manutention continue pour produits en vrac et pour charges isolées — Transporteurs à courroie — Caractéristiques de base des tambours moteurs

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Descriptors : handling equipment, continuous handling, bulk products, unit loads, conveyors, belt conveyors, pulleys, 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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 101 has reviewed ISO Recommendation R 1816 and found it technically suitable for transformation. International Standard ISO 1816 therefore replaces ISO Recommendation R 1816-1970 to which it is technically identical.

ISO Recommendation R 1816 was approved by the Member Bodies of the following countries :

Australia	Greece	Poland
Belgium	India	South Africa, Rep. of
Canada	Israel	Sweden
Czechoslovakia	Italy	Thailand
Egypt, Arab Rep. of	Japan	Turkey
France	Norway	United Kingdom
Germany	Peru	U.S.S.R.

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 1816 into an International Standard.

Continuous mechanical handling equipment for loose bulk materials and unit loads — Belt conveyors — Basic characteristics of motorized driving pulleys

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the basic characteristics of motorized driving pulleys for belt conveyors.

2 SPECIFICATIONS

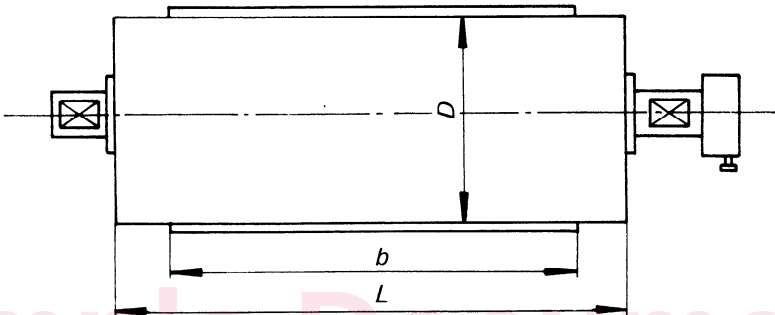


FIGURE — Motorized driving pulley

2.1 Dimensions

2.1.1 Nominal diameter

Dimensions in millimetres									
<i>D</i>	160	200	(215)	250	315	400	500	630	800

2.1.2 Length

The pulley length *L* is given in the following table with regard to the belt width *b* :

Dimensions in millimetres							
<i>b</i>	300	400	500	650	800	1 000	1 200
<i>L</i>	400	500	600	750	950	1 150	1 400

2.2 Power rating

Values in kilowatts												
<i>P</i>	0,37	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15	18,5

2.3 Nominal speed

Values in metres per second												
<i>v</i>	0,25	0,32	0,4	0,5	0,63	0,8	1	1,25	1,6	2	2,5	3,15

These numbers are taken from the R 10 series of preferred numbers.¹⁾

NOTES

- The manufacturer may choose from the above tables the diameter, power rating and speed of the motorized driving pulleys.
- Shaft dimensions are not specified.

1) See ISO 3, *Preferred numbers — Series of preferred numbers*.