
INTERNATIONAL STANDARD



4123

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Belt conveyors — Impact rings for carrying idlers and discs for return idlers — Main dimensions

Transporteurs à courroie — Disques amortisseurs pour rouleaux porteurs et disques anticolmatants pour rouleaux de retour — Dimensions principales

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[ISO 4123:1979](#)

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UDC 621.867.2

Ref. No. ISO 4123-1979 (E)

Descriptors : conveyors, belt conveyors, idlers, accessories, specifications, 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.

International Standard ISO 4123 was developed by Technical Committee ISO/TC 101, *Continuous mechanical handling equipment*, and was circulated to the member bodies in November 1977.

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

Australia	France	Poland
Austria	Germany, F. R.	South Africa, Rep. of
Belgium	India	Spain
Bulgaria	Italy	Sweden
Czechoslovakia	Mexico	Turkey
Denmark	Netherlands	U.S.S.R.
Finland	Norway	Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

United Kingdom
U.S.A.

Belt conveyors – Impact rings for carrying idlers and discs for return idlers – Main dimensions

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1 SCOPE

This International Standard establishes the main dimensions of impact rings for carrying idlers and discs for return idlers used for the various types of belt conveyors.

2 FIELD OF APPLICATION

This International Standard applies to belt conveyors covered by ISO 1537, ISO 2109 and ISO 2406.

3 REFERENCES

ISO 1537, *Continuous mechanical handling equipment for loose bulk materials – Troughed belt conveyors (other than portable conveyors) – Idlers.*

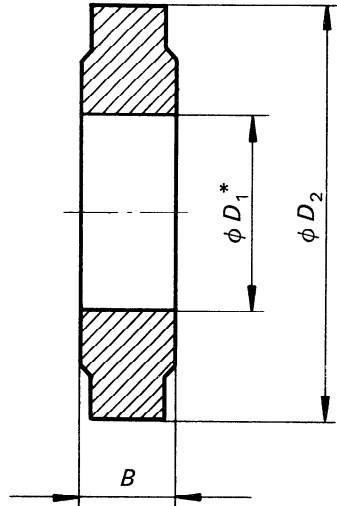
ISO 2109, *Continuous mechanical handling equipment – Light duty belt conveyors for loose bulk materials.*

ISO 2406, *Continuous mechanical handling equipment – Mobile and portable conveyors – Constructional specifications.*

4 DIMENSIONS

The inner as well as the outer diameters correspond with idler diameters in ISO 1537, ISO 2109 and ISO 2406.

4.1 Impact rings for carrying idlers



* Diameter D_1 shall be chosen so that the impact ring can be securely fixed on the idler.

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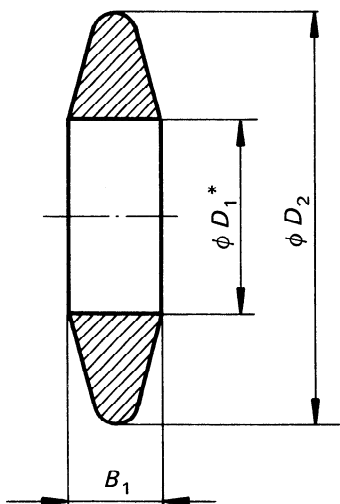
Idler diameter	51		63,5			76,1			88,9		108		133	
D_2	108	108	133	108	133	159	133	159	159	194	219	194	219	
B	25		30			35			40		45			

NOTE – The diameter of 114,3 will be added later.

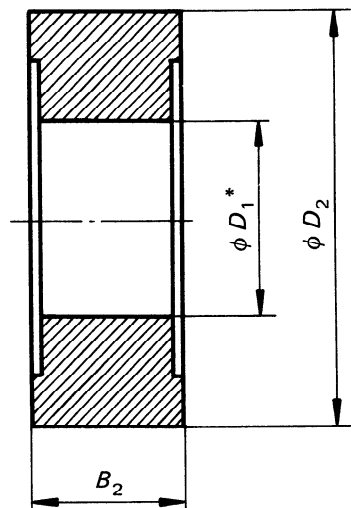
Data not specified as well as details of form are left to the discretion of the manufacturer.

4.2 Discs for return idlers

Type A – Inner disc



Type B – Outer disc



* Diameter D_1 shall be chosen so that the disc can be securely fixed on the idler.

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Idler diameter	51	63,5			76,1			88,9			108			133			159
D_2	108	108	133	133	133	159	133	159	159	194	219	194	219	219			
B_1		25			30			35			40			45			
B_2		40									50						

NOTE – The diameter of 114,3 will be added later.

Data not specified as well as details of form are left to the discretion of the manufacturer.

5 MATERIAL

Impact rings and discs shall be made of elastic material, for example rubber.

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