INTERNATIONAL STANDARD



1049

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ ORGANISATION INTERNATIONALE DE NORMALISATION

Continuous mechanical handling equipment for loose bulk materials — Vibrating conveyors and feeders with rectangular or trapezoidal trough

Engins de manutention conti<mark>nue pour produ</mark>its en vrac — Distributeurs et transporteurs vibrants à auges rectangulaires ou trapézoïdales

(standards.iteh.ai)

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<u>ISO 1049:1975</u>

https://standards.iteh.ai/catalog/standards/sist/a4bdf5a6-3653-4d3b-89ca-000ab123fecb/iso-1049-1975

UDC 621.867.5

Descriptors: handling

Ref. No. ISO 1049-1975 (E)

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 1049 and found it technically suitable for transformation. International Standard ISO 1049 therefore replaces ISO Recommendation R 1049-1969 to which it is technically identical. https://standards.iteh.ai/catalog/standards/sist/a4bdf5a6-3653-4d3b-89ca-

ISO Recommendation R 1049 was approved by the Members Bodies 1075 the following countries :

Belgium Germany
Brazil Greece
Canada India
Chile Israel
Czechoslovakia Italy

Sweden Switzerland Turkey United Kingdom

Czechoslovakia Italy U.S.S.R. Egypt, Arab Rep. of Japan Yugoslavia

Egypt, Arab Rep. of Finland

Netherlands

France

South Africa, Rep. of

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

U.S.A.

No Member Body disapproved the transformation of ISO/R 1049 into an International Standard.

Continuous mechanical handling equipment for loose bulk materials — Vibrating conveyors and feeders with rectangular or trapezoidal trough

1 SCOPE

This International Standard specifies the basic characteristics of vibrating conveyors and feeders with rectangular or trapezoidal trough.

iTeh STANDARD PREVIEW

2 FIELD OF APPLICATION

This International Standard applies to vibrating conveyors and feeders, with

- rectangular (see figures 1 and 3) or trapezoidal (see figures 2 and 4) trough;
- flat-bottom (see figures / fland 2) of dished-bottom (see figures 3 fand 4) trough b-89ca-

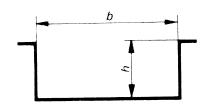


FIGURE 1 - Rectangular flat-bottom trough

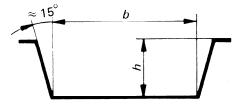


FIGURE 2 - Trapezoidal flat-bottom trough

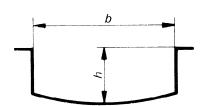


FIGURE 3 - Rectangular dished-bottom trough

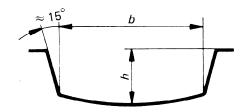


FIGURE 4 - Trapezoidal dished-bottom trough

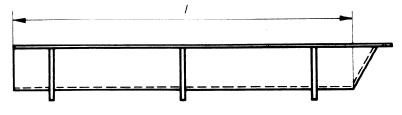


FIGURE 5 - Length of trough

3 SPECIFICATIONS

3.1 Geometrical specifications

The following dimensions are given in millimetres.

3.1.1 Width of trough

The width of the trough is the inside width b of the bottom.

1											The second section of the sect		1
1	b	125	160	200	250	315	400	500	630	800	1000	1250	1 600
			1					L	Contract to the contract of th	Contract to the state of the track	L	L	an employ service and a service

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

3.1.2 Height of trough

The height of the trough is the vertical distance h between the bottom and the upper part of the crough

h 80 100 125 160 200	250 315 400

These numbers are taken from the R 10 series of preferred numbers.¹⁾ It is permissible to use the R 20 series of preferred numbers¹⁾ for intermediate values.

3.1.3 Length of trough

The length of the trough is the inside length / of the bottom.

1	/	500	750	1 000	1 250 g 1 500 1 750 2 000 2 500 R3 R0A 1 R50A 4 6	100
			ì	ļ		

It is also permissible to use the R 5 series of preferred numbers 1 and for intermediate values, the R 10 or R 20 series of preferred numbers 1).

3.2 Physical specifications

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3.2.1 Vibrations

The frequencies f to apply on the trough and the corresponding oscillation distances a determined with regard to the flow, the characteristics of the carried material, the length of the trough, and the type of appliance, shall be chosen from the values given in the following table.

TABLE - Frequencies and oscillation distances

Oscillations per minute	750	1 000	1 500	3 000	6 000
f Hz	12,5	16,7	25	50	100
a mm	5 to 32	2,5 to 17	1,2 to 8	0,3 to 3	0,07 to 1

NOTE - The specifications of vibrations given above are based on the frequency of electric current of 50 Hz.

3.3 Specification of construction

For vibrating conveyors, it is possible to allow for several inlet and discharge points.

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