

## SLOVENSKI STANDARD SIST ISO 1049:1997

01-marec-1997

Naprave za kontinuirni transport sipkih materialov - Vibracijski transporterji in dodajalniki s pravokotnim in trapeznim koritom

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

### iTeh STANDARD PREVIEW

Engins de manutention continue pour produits en vrac - Distributeurs et transporteurs vibrants à auges rectangulaires ou trapézoïdales

SIST ISO 1049:1997

Ta slovenski standard je istoveten z: 1049:1975

ICS:

53.040.10 Transporterji Conveyors

SIST ISO 1049:1997 en

SIST ISO 1049:1997

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 1049:1997</u> https://standards.iteh.ai/catalog/standards/sist/63795788-a2d3-4f69-89ea-d4d66110eec9/sist-iso-1049-1997

## 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 continue pour produits en vrac - Distributeurs et transporteurs vibrants à auges rectangulaires ou trapézoïdales (standards.iteh.ai)

First edition - 1975-11-01

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UDC 621.867.5

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.itch.ai/catalog/standards/sist/63795788-a2d3-4f69-89ea-

ISO Recommendation R 1049 was approved by the Membert Bodies of the following countries:

Belgium Germany
Brazil Greece
Canada India
Chile Israel
Czechoslovakia Italy
Egypt, Arab Rep. of Japan

Sweden Switzerland Turkey United Kingdom

a Italy U.S.S.R. ep. of Japan Yugoslavia

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.

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#### 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 1 and 2) or dished bottom (see figures 3 and 4) trough 9-89ea-

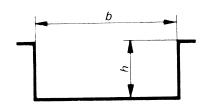


FIGURE 1 - Rectangular flat-bottom trough

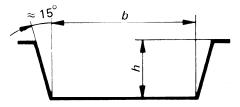
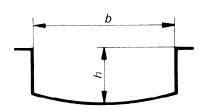


FIGURE 2 - Trapezoidal flat-bottom trough



 ${\sf FIGURE~3-Rectangular~dished-bottom~trough}$ 

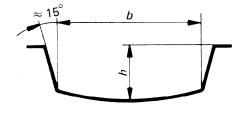


FIGURE 4 - Trapezoidal dished-bottom trough

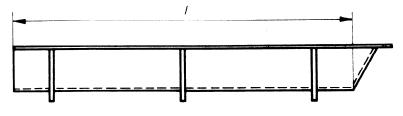


FIGURE 5 - Length of trough

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#### 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 secon	I			i
	b	125	160	200	250	315	400	500	630	800	1000	1250	1 600
			1		1			1	1 .	1	1		

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

1						The second secon			
1	h	80	100	125	160	200	250	315	400
	"	00	100	120	100	200	200	313	100

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

#### 3.1.3 Length of trough

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

/	500	750	1 000	1 250 A 1 500 T 1 750 P 2 000 P 2 500 P 3 800	3 6 00 4 000 L
1	000			Ladina tumbumpa tuma	

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.

<sup>1)</sup> See ISO 3, Preferred numbers — Series of preferred numbers.