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INTERNATIONAL STANDARD



1815

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

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## Continuous mechanical handling equipment for loose bulk materials — Vibrating feeders and conveyors with tubular trough

*Engins de manutention continue pour produits en vrac — Distributeurs et transporteurs vibrants à auges tubulaires*

**ITeH STANDARD PREVIEW**

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[ISO 1815:1975](#)

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**Descriptors** : handling equipment, continuous handling, bulk products, conveyors, oscillating conveyors, mechanical feeders, specifications.

Price based on 2 pages

## 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 1815 and found it technically suitable for transformation. International Standard ISO 1815 therefore replaces ISO Recommendation R 1815-1970 to which it is technically identical.

ISO Recommendation R 1815 was approved by the Member Bodies of the following countries :

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

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 1815 into an International Standard.

# Continuous mechanical handling equipment for loose bulk materials – Vibrating feeders and conveyors with tubular trough

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### 1 SCOPE

This International Standard specifies the basic characteristics of vibrating feeders and conveyors with tubular trough.

### 2 FIELD OF APPLICATION

This International Standard applies to the types of vibrating feeders and conveyors illustrated in figures 1 and 2.

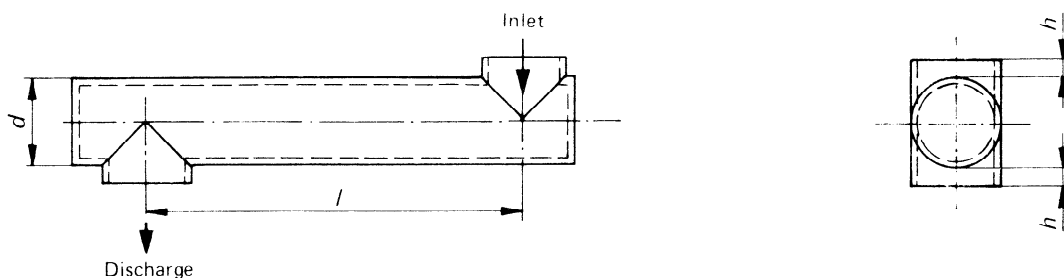


FIGURE 1 – Tubular trough with closed ends

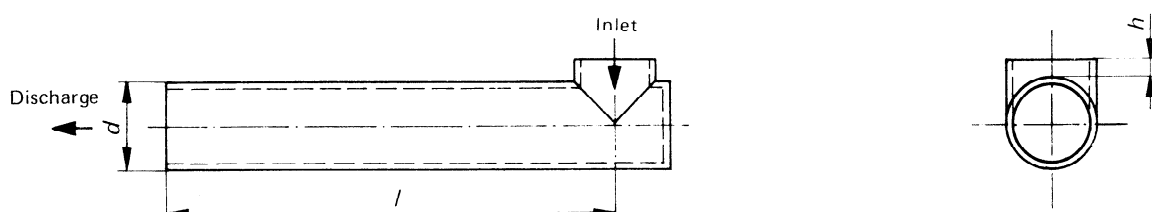


FIGURE 2 – Tubular trough with only one closed end

**3 SPECIFICATIONS**

**3.1 Geometrical specifications**

The following dimensions are given in millimetres.

**3.1.1 Nominal diameter  $d$  of tube**

$d$	100	125	160	200	250	315	400	500	630	800
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These numbers are taken from the R 10 series of preferred numbers.<sup>1)</sup>

**3.1.2 Height  $h$  of inlet and discharge**

$d$	from 100 to 315	from 400 to 800
$h$	50	100

**3.1.3 Length  $l$  of trough**

$l$	500	750	1 000	1 250	1 500	1 750	2 000	2 500	3 000	3 500	4 000
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It is also permissible to use the R 5 series of preferred numbers<sup>1)</sup> and, for intermediate values, the R 10 or R 20 series of preferred numbers.<sup>1)</sup>

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**3.2 Physical specifications**

**3.2.1 Vibrations**

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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, are to be chosen from the values given in the table below.

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*.