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मानक

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IS 6511 (1997): Lifting Appliances - Range of Maximum Capacities for Basic Models [MED 14: Cranes, Lifting Chains and Related Equipment]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

उत्पादक साधक — आधारभूत माडलों
के लिए अधिकतम क्षमता रेंज
(पहला पुनरीक्षण)

Indian Standard

**LIFTING APPLIANCES — RANGE OF MAXIMUM
CAPACITIES FOR BASIC MODELS**

(First Revision)

ICS 53.020.01

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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

NATIONAL FOREWORD

This Indian Standard (*First Revision*) which is identical with ISO 2374 : 1983 'Lifting appliances — Range of maximum capacities for basic models', issued by International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendations of the Cranes, Lifting Chains and Its Related Equipment Sectional Committee, and approval of the Heavy Mechanical Engineering Division Council.

This Indian Standard was first published in 1972. During this revision, ISO 2374 : 1983 has been adopted under dual number system.

The text of ISO standard has been approved for publication as Indian Standard without deviations. Certain terminology and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma(,) has been used as a decimal marker while in Indian Standards, the current practice is to use a full stop (.) as a decimal marker.

In reporting the results of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

Indian Standard

LIFTING APPLIANCES — RANGE OF MAXIMUM CAPACITIES FOR BASIC MODELS

(First Revision)

1 Scope and field of application

This International Standard sets forth the recommended range of maximum capacities of cranes from 0,1 to 1 000 t.

This International Standard applies to all types of cranes.

2 Definitions

For the purpose of this International Standard, the following definitions apply.

2.1 maximum capacity; safe working load: The maximum load to be suspended from the lifting appliance as defined for the particular types of cranes and for the specified conditions with regard to the group classification.

For jib-type appliances, the maximum capacity is taken at minimum permissible jib length and radius for the working configuration.

NOTE — Maximum capacity has many synonyms such as safe working load, lifting capacity; however, maximum capacity is preferred.

2.2 basic model: The main version on the basis of which further versions (modifications) of lifting appliances can be developed, differing in length of jib and/or tower, type of running gear, rope fall of reeving system, etc., whose maximum capacity is determined by the design calculation.

3 Range of maximum capacities for basic models

The range of maximum capacities should conform to that listed in the following table.

Table — Maximum capacities for basic models

Values in tonnes

0,1	1	10	100	1 000
—	—	(11,2)	(112)	
0,125	1,25	12,5	125	
—	—	(14)	(140)	
0,16	1,6	16	160	
—	—	(18)	(180)	
0,2	2	20	200	
—	—	(22,5)	(225)	
0,25	2,5	25	250	
—	—	(28)	(280)	
0,32	3,2	32	320	
—	—	(36)	(360)	
0,4	4	40	400	
—	—	(45)	(450)	
0,5	5	50	500	
—	—	(56)	(560)	
0,63	6,3	63	630	
—	—	(71)	(710)	
0,8	8	80	800	
—	—	(90)	(900)	

NOTE — Use of the values of maximum capacities shown in parentheses should be avoided.

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Amendments Issued Since Publication

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