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# INTERNATIONAL STANDARD



# 496

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

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## Driving and driven machines — Shaft heights

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**Descriptors** : machinery, shafts (Machine elements), height.

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## 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 13 has reviewed ISO Recommendation R 496 and found it suitable for transformation. International Standard ISO 496 therefore replaces ISO Recommendation R 496-1966.

ISO Recommendation R 496 was approved by the Member Bodies of the following countries:

Argentina	Germany	Spain
Austria	Greece	Sweden
Bulgaria	Israel	Switzerland
Chile	Japan	Turkey
Colombia	Korea, Rep. of	United Kingdom
Czechoslovakia	Netherlands	U.S.A.
Denmark	New Zealand	U.S.S.R.
France	Portugal	Yugoslavia

The Member Bodies of the following countries have subsequently approved this Recommendation:

Philippines  
South Africa, Rep. of

The Member Bodies of the following countries expressed disapproval of the Recommendation on technical grounds:

Belgium  
India

The Member Body of the following country disapproved the transformation of ISO/R 496 into an International Standard:

India

## Driving and driven machines – Shaft heights

### 1 SCOPE AND FIELD OF APPLICATION

This International Standard establishes four series in millimetres and five series in inches, of shaft heights for driving and driven machines.

### 2 DEFINITION

For the purpose of this International Standard the following definition applies.

**shaft height** : The distance, measured on the machine ready for delivery, between the centre line of the shaft and the base plane of the machine itself.

It does not include the liners used for assembly but, in cases where an insulation shim is supplied with the machine, the thickness of this shim shall be included in the shaft height.

### 3 NOMINAL DIMENSION $h$

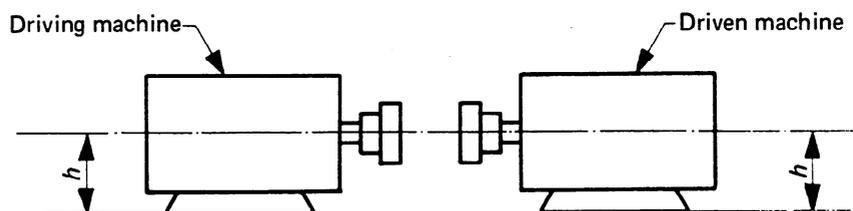


TABLE 1 – Shaft heights in millimetres\* and in inches

Shaft heights									
millimetres				inches					
Series				Series					
I	II	III	IV	I	II	III	IV	V	
25	25	25	25	0.984	0.984	0.984	0.984		
			26				1.024		
			28			1.102	1.102		
			30				1.181		
	32	32	32		1.260	1.260	1.260		
			34				1.339		
			36			1.417	1.417		
			38				1.496		
40	40	40	40	1.575	1.575	1.575	1.575		
			42				1.654		
			45			1.772	1.772		
			48				1.890		
	50	50	50		1.969	1.969	1.969		
			53				2.09		
			56			2.20	2.20		
			60				2.36		
63	63	63	63	2.48	2.48	2.48	2.48		2.625
			67				2.64		
			71			2.80	2.80		
			75				2.95		3
	80	80	80		3.15	3.15	3.15		
			85				3.35		
			90			3.54	3.54		3.5
			95				3.74		
100	100	100	100	3.94	3.94	3.94	3.94		4.125
			106				4.17		
			112			4.41	4.41		4.5
			118				4.65		
	125	125	125		4.92	4.92	4.92		
			132				5.20		5.25
			140			5.51	5.51		
			150				5.91		6.25
160	160	160	160	6.30	6.30	6.30	6.30		
			170				6.69		7
			180			7.09	7.09		
			190				7.48		
	200	200	200		7.87	7.87	7.87		8
			212				8.35		
		225**	225**			8.86	8.86		9
			236				9.29		

Shaft heights									
millimetres				inches					
Series				Series					
I	II	III	IV	I	II	III	IV	V	
250	250	250	250	9.84	9.84	9.84	9.84		10
			265				10.43		11
			280			11.02	11.02		
			300				11.81		
	315	315	315		12.40	12.40	12.40		12.5
			335				13.19		
			355			13.98	13.98		
			375				14.76		
400	400	400	400	15.75	15.75	15.75	15.75		
			425				16.73		
			450			17.72	17.72		
			475				18.70		
	500	500	500		19.69	19.69	19.69		
			530				20.87		
			560			22.05	22.05		
			600				23.62		
630	630	630	630	24.80	24.80	24.80	24.80		
			670				26.38		
			710			27.95	27.95		
			750				29.53		
	800	800	800		31.50	31.50	31.50		
			850				33.46		
			900			35.43	35.43		
			950				37.40		
1 000	1 000	1 000	1 000	39.37	39.37	39.37	39.37		
			1 060				41.73		
			1 120			44.09	44.09		
			1 180				46.46		
	1 250	1 250	1 250		49.21	49.21	49.21		
			1 320				51.97		
			1 400			55.12	55.12		
			1 500				59.06		
1 600	1 600	1 600	1 600	62.99	62.99	62.99	62.99		
> 1 600***				> 62,99***					

\* The values in millimetres of the series I to IV correspond respectively, taking into account some roundings, to the values of the preferred numbers R 5, R 10, R 20, R 40 (see ISO 3, Preferred numbers – Series of preferred numbers).

\*\* Deviation from the series of preferred numbers which contains the number 224.

\*\*\* For values > 1 600 mm and > 62,99 in, adopt a preferred number in millimetres or its corresponding value in inches.