

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 867

SPINDLE NOSES AND FACE PLATES

iTeh STABAYONERTYPE REVIEW SIZES FOR INTERCHANGEABILITY

METRIC SERIES ISO/R 867:1968

https://standards.iteh.ai/catalog/standards/sist/d7b656dd-c264-4c83-9429e50466a9b49f/iso-r-867-1968 Ist EDITION

November 1968

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 867, Spindle noses and face plates – Bayonet type – Sizes for interchangeability – Metric series, was drawn up by Technical Committee ISO/TC 39, Machine tools, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question by the Technical Committee began in 1951 and led, in 1965, to the adoption of a Draft ISO Recommendation.

In July 1967, this Draft ISO Recommendation (No. 1327) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

> Austria Belgium Chile Czechoslovakia Finland France Germany Greece Hungary

India Iran Israel Italy Japan Korea, Rep. of Netherlands Poland Romania

NDARD

South Africa, Rep. of Spain Sweden Switzerland Thailand Turkey U.A.R. United Kingdom Yugoslavia

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No Member Body opposed the approval of the Draft.

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The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in November 1968, to accept it as an ISO RECOMMENDATION.

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ISO Recommendation

R 867

November 1968

SPINDLE NOSES AND FACE PLATES

BAYONET TYPE

SIZES FOR INTERCHANGEABILITY

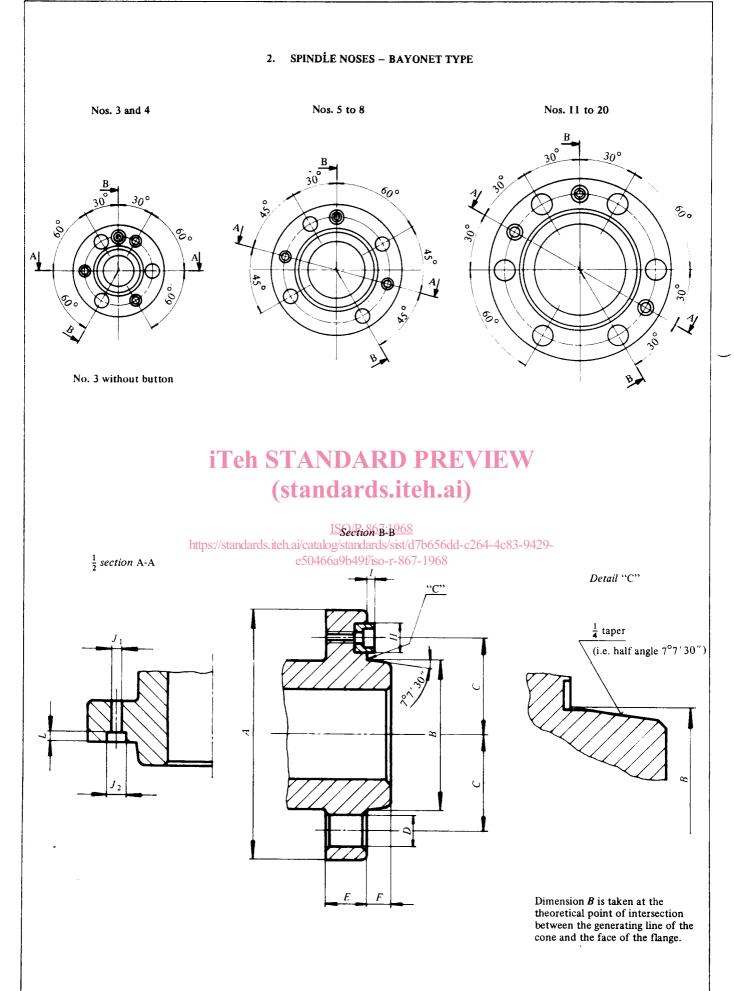
METRIC SERIES

1. SCOPE

This ISO Recommendation is the second of a series of ISO Recommendations specifying the sizes for interchangeability for lathe spindle noses and face plates and covering the three types selected for international standardization, i.e. A and Camlock types and bayonet type.

The first two types, which are presently in use in most countries, are the subject of ISO Recommendation R 702, Spindle noses and face plates – Types A and Camlock – Sizes for interchangeability; the third type is the subject of this ISO Recommendation.

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									Dimensio	ns in millimet
imension	No.	3	4	5	6	8	11	15	20	Tolerance
A		102	112	135	170	220	290	400	540	>
В		53.975	63.513	82.563	106.375	139.719	196.869	285.775	412.775	+ IT 4 0
С		37.5	42.5	52.4	66.7	85.7	117.5	165.1	231.8	(1)
D		21	21	21	23	29	36	43	43	>
E		16	20	22	25	28	35	42	48	\ge
F		11	11	13	14	16	18	19	21	>
Н		\ge	14.25	15.9	19.05	23.8	28.6	34.9	41.3	H8 / h8
Ι		\ge	5	5	5	6	8	8	8	>
J ₁		6.4	6.4	6.4	8.4	10.5	10.5	13	13	>>
<i>J</i> ₂		10.4	10.4	10.4	13.5	16.5	16.5	19	19	>
L		10	10	10	11	12	13	15	15	\searrow

Dimensions in millimetres

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(1) 0.1 mm for Nos. 3 to 11

Tolerance of position (radial deviation with respect to the theoretical position)

0.15 mm for Nos. 15 and 20 with respect to the theoretical position) https://standards.iteh.ai/catalog/standards/sist/d7b656dd-c264-4c83-9429-

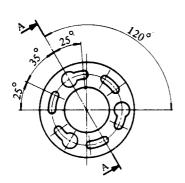
e50466a9b49f/iso-r-867-1968

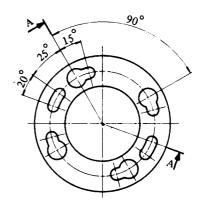
NOTE. – General tolerance for untoleranced dimensions : ± 0.4 mm.

3. BAYONET DISC

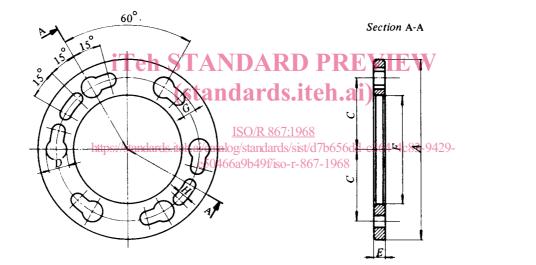
Nos. 3 and 4

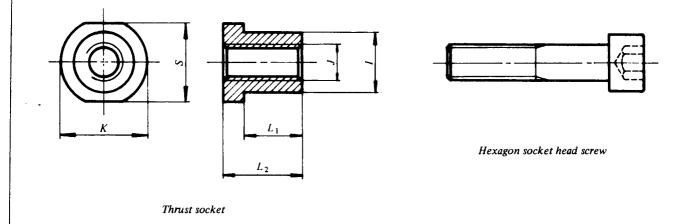






Nos. 11 to 20





No.	3	4	5	6	8	11	15	20	Tolerances
A	110	120	145	180	230	300	410	550	>
С	37.5	42.5	52.4	66.7	85.7	117.5	165.1	231.8	(1)
D	21	21	21	23	29	36	43	43	\ge
E	5	6	8	10	12	16	18	22	-0.1
F	50	60	80	100	130	185	270	400	H8(2)
G	11.5	11.5	11.5	14	18	23	27	27	\geq
Н	11.5	11.5	11.5	14	18	18	23	23	>
Ι	11	11	11	13	17	17	22	22	\ge
J	M 6	M 6	М б	M 8	М 10	M 10	M 12	M 12	>
K	16	16	16	19	25	25	32	32	\ge
L ₁	5.2	6.2 S	8.2	D ^{10,2} R	13 .2 P	R 16.2	18.3	22.3	+ 0.2
L ₂	8	9 (tanc	lard	s.itel	22i)	26	30	>
S	14	14	14	17 SO/R 867	22 :1968	22	27	27	>
Hexagon socket head screw	https://star M6 × 15	dards.itel M6 × 20	ai/catalog	/standard M84X-30	/sist/d7b м10X35 -1-80/-1	56dd-c2 M10X45	5 <mark>4-4с83-</mark> м12Х55	9 <mark>429-</mark> M12X65	\ge

Dimensions in millimetres

(1)

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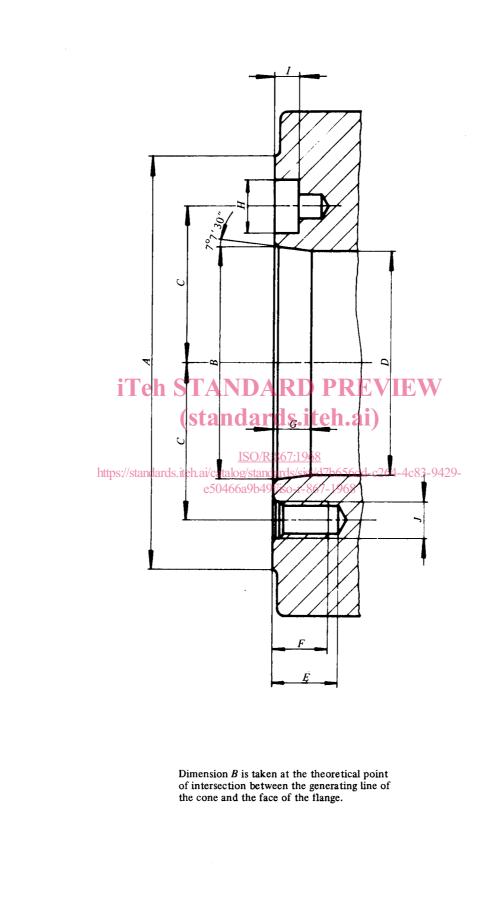
0.1 mm for Nos. 3 to 11 0.15 mm for Nos.15 and 20 J

Tolerance of position (radial deviation with respect to the theoretical position)

(2) The given boring diameters are maximum values.

The tolerance of the spindle diameter of the same dimension is f7.

4. FACE PLATES - BAYONET TYPE



- 8 -

								Dimensio	ons in millimetre
No. Dimension	3	4	5	6	8	11	15	20	Tolerances
A	102	112	135	170	220	290	400	540	>
В	53.975	63.513	82.563	106.375	139.719	196.869	285.775	412.775	+ (IT 4 – IT 3 – IT 3
С	37.5	42.5	52.4	66.7	85.7	117.5	165.1	231.8	(1)
D	51.5	61	79.6	103.2	136.2	192.9	281.5	408	max.
E	18	18	18	22	28	34	40	40	\searrow
F	15	15	15	18	24	30	36	36	\ge
G	10	10	12	13	14	16	17	19	\searrow
Н	\succ	14.7	16.3	19.45	24.25	29.4	35.7	42.1	+ 0.1
Ι	\triangleright	6.5	6.5	6.5	8	10	10	10	>
J	M 10	M 10	M 10	M 12	M 16	M 20	M 24	M 24	
Stud	M10×34	м 10×39	M10X43	M12X50	M16X60	M 20 X 75	M 24 X 90	M 24×100	

Dimensions in millimetres

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0.1 mm for Nos. 3 to 11 (1)

Tolerance of position (radial deviation with respect to the theoretical position) ai/catalog/standards/sist/d7b656dd-c264-4c83-9429-0.15 mm for Nos. 15 and 20

e50466a9b49f/iso-r-867-1968 NOTE. – General tolerance for untoleranced dimensions : ± 0.4 mm.