



**SLOVENSKI STANDARD**  
**SIST ISO 2982-1:2001**

**01-julij-2001**

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**Kotalni ležaji - Pomožni deli - 1. del: Vpenjalne tulke - Mere**

Rolling bearings -- Accessories -- Part 1: Tapered sleeves -- Dimensions

Roulements -- Accessoires -- Partie 1: Manchons coniques -- Dimensions

**Ta slovenski standard je istoveten z: ISO 2982-1:1995**

[SIST ISO 2982-1:2001](https://standards.iteh.ai/catalog/standards/sist/8d7418d5-886c-48e6-bddd-86b25048cf9/sist-iso-2982-1-2001)

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**ICS:**

21.100.20      Kotalni ležaji      Rolling bearings

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**en**

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INTERNATIONAL  
STANDARD

**ISO**  
**2982-1**

First edition  
1995-09-01

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**Rolling bearings — Accessories —**

**Part 1:**

Tapered sleeves — Dimensions

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*Roulements — Accessoires —*

*Partie 1: Manchons coniques — Dimensions*

<https://standards.iteh.ai/catalog/standards/sist/8d7418d5-886c-48e6-bddd-86b25048cf9/sist-iso-2982-1-2001>



Reference number  
ISO 2982-1:1995(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2982-1 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

This first edition of ISO 2982-1 cancels and replaces ISO 113-1:1979, which has been technically revised.

ISO 2982 consists of the following parts, under the general title *Rolling bearings — Accessories*:

- Part 1: *Tapered sleeves — Dimensions*
- Part 2: *Locknuts and locking devices — Dimensions*

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# Rolling bearings — Accessories —

## Part 1: Tapered sleeves — Dimensions

### 1 Scope

This part of ISO 2982 specifies

- a) boundary dimensions of adapter sleeves with taper 1:12 and withdrawal sleeves with tapers 1:12 and 1:30 for rolling bearings of a number of dimension series as specified in ISO 15;
- b) the outside diameter of suitable locknuts.

Dimensions of locknuts and lockwashers for the adapter sleeves are given in ISO 2982-2.

The locknuts are also suitable for the dismounting of the withdrawal sleeves.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 2982. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 2982 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

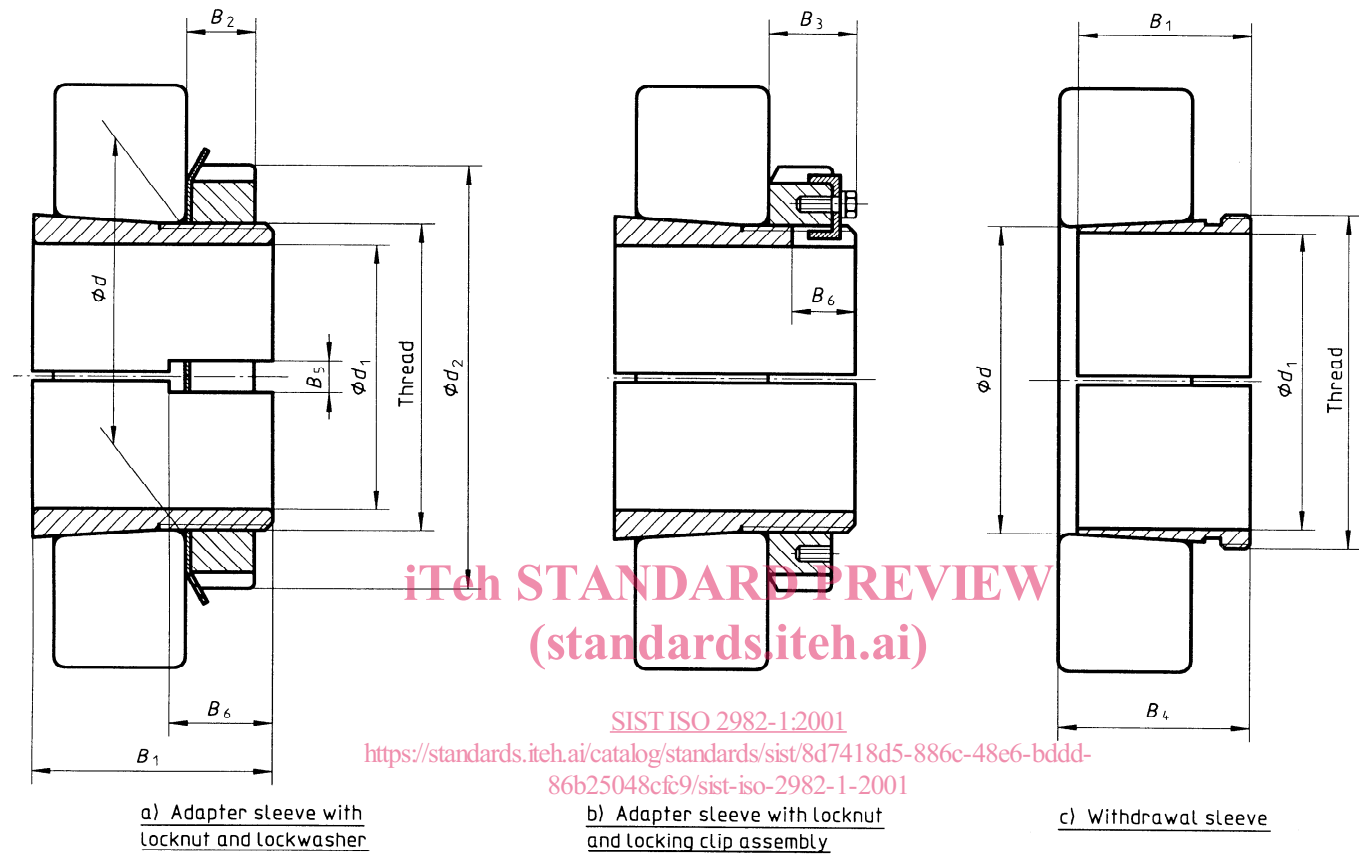
ISO 15:1981, *Rolling bearings — Radial bearings — Boundary dimensions — General plan.*

ISO 2982-2:1995, *Rolling bearings — Accessories — Part 2: Locknuts and locking devices — Dimensions.*

### 3 Symbols and dimensions

See figure 1 a), b) and c) and 3.1 to 3.3.

The dimensions given in 3.1 to 3.3, corresponding to the symbols shown in figure 1 are nominal dimensions unless specified otherwise.



$d$  = bore diameter of bearing

$d_1$  = bore diameter of sleeve

$d_2$  = outside diameter of locknut

$B_1$  = adapter sleeve and withdrawal sleeve length

$B_2$  = distance from bearing small bore face to outer face of locknut

$B_3$  = distance from bearing small bore face to outer face of screw head

$B_4$  = overall length of withdrawal sleeve and bearing ring

$B_5$  = slot width (for lockwasher inner tab or locking clip)

$B_6$  = slot length (must not be longer than  $1,3 \times$  thread length and must not be less than the threading)

**Figure 1 — Tapered sleeves**

## 3.1 Adapter sleeves with taper 1:12

Dimensions in millimetres

$d$	$d_1$	$B_2$ max.	$B_3$ max.	$B_5$ min.	$d_2$	$B_1$					Thread
						Suitable for bearing dimension series					
						02	22 and 03	31	32	23	
15	12	6	—	5	25	19	22	—	—	25	M15 × 1
17	14	6	—	5	28	20	24	—	—	27	M17 × 1
20	17	7	—	5	32	24	28	—	—	31	M20 × 1
25	20	8	—	6	38	26	29	—	—	35	M25 × 1,5
30	25	8	—	6	45	27	31	—	—	38	M30 × 1,5
35	30	9	—	7	52	29	35	—	—	43	M35 × 1,5
40	35	10	—	7	58	31	36	—	—	46	M40 × 1,5
45	40	11	—	7	65	33	39	—	—	50	M45 × 1,5
50	45	12	—	7	70	35	42	—	—	55	M50 × 1,5
55	50	12	—	9	75	37	45	—	—	59	M55 × 2
60	55	13	—	9	80	38	47	—	—	62	M60 × 2
65	60	14	—	9	85	40	50	—	—	65	M65 × 2
70	60	14	—	9	92	41	52	—	—	68	M70 × 2
75	65	15	—	9	98	43	55	—	—	73	M75 × 2
80	70	17	—	11	105	46	59	—	—	78	M80 × 2
85	75	18	—	11	110	50	63	—	—	82	M85 × 2
90	80	18	—	11	120	52	65	—	86	86	M90 × 2
95	85	19	—	11	125	55	68	—	90	90	M95 × 2
100	90	20	—	13	130	58	71	76	97	97	M100 × 2
105	95	20	—	13	140	60	74	80	101	101	M105 × 2
110	100	21	—	13	145	63	77	81	105	105	M110 × 2

Dimensions in millimetres

$d$	$d_1$	$B_2$ max.	$B_3$ max.	$B_5$ min.	$d_2$	$B_1$		$d_2$	$B_1$		Thread
						Suitable for bearing dimension series			Suitable for bearing dimension series		
						39	30, 02 and 12		31, 22, 03 and 13	32 and 23	
120	110	22	—	15	145	60	72	155	88	112	M120 × 2
130	115	23	—	15	155	65	80	165	92	121	M130 × 2
140	125	24	—	17	165	66	82	180	97	131	M140 × 2
150	135	26	—	17	180	76	87	195	111	139	M150 × 2
160	140	28	—	19	190	78	93	210	119	147	M160 × 3
170	150	29	—	19	200	79	101	220	122	154	M170 × 3
180	160	30	—	21	210	87	109	230	131	161	M180 × 3
190	170	31	—	21	220	89	112	240	141	169	M190 × 3
200	180	32	—	21	240	98	120	250	150	176	M200 × 3
220	200	—	41	20	260	96	126	—	—	—	Tr220 × 4
220	200	35	—	25	—	—	—	280	161	186	Tr220 × 4
240	220	—	46	20	290	101	133	—	—	—	Tr240 × 4
240	220	37	—	25	—	—	—	300	172	199	Tr240 × 4
260	240	—	46	20	310	116	145	—	—	—	Tr260 × 4
260	240	39	—	29	—	—	—	330	190	211	Tr260 × 4
280	260	—	50	24	330	121	152	—	—	—	Tr280 × 4
280	260	41	—	29	—	—	—	350	195	224	Tr280 × 4
300	280	—	54	24	360	140	168	—	—	—	Tr300 × 4
300	280	—	53	24	—	—	—	380	208	240	Tr300 × 4
320	300	—	55	24	380	140	171	—	—	—	Tr320 × 5
320	300	—	56	24	—	—	—	400	226	258	Tr320 × 5
340	320	—	58	24	400	144	187	—	—	—	Tr340 × 5
340	320	—	72	28	—	—	—	440	254	288	Tr340 × 5
360	340	—	58	28	420	144	188	—	—	—	Tr360 × 5
360	340	—	75	28	—	—	—	460	259	299	Tr360 × 5
380	360	—	62	28	450	164	193	—	—	—	Tr380 × 5
380	360	—	77	32	—	—	—	490	264	310	Tr380 × 5
400	380	—	66	28	470	168	210	—	—	—	Tr400 × 5
400	380	—	82	32	—	—	—	520	272	328	Tr400 × 5
420	400	—	66	32	490	168	212	—	—	—	Tr420 × 5
420	400	—	90	32	—	—	—	540	304	352	Tr420 × 5
440	410	—	77	32	520	189	228	—	—	—	Tr440 × 5
440	410	—	90	36	—	—	—	560	307	361	Tr440 × 5



Dimensions in millimetres

$d$	$d_1$	$B_2$ max.	$B_3$ max.	$B_5$ min.	$d_2$	$B_1$		$d_2$	$B_1$		Thread
						Suitable for bearing dimension series			Suitable for bearing dimension series		
						39	30		31	32	
460	430	—	77	32	540	189	234	—	—	—	Tr460 × 5
460	430	—	95	36	—	—	—	580	326	382	Tr460 × 5
480	450	—	77	36	560	200	237	—	—	—	Tr480 × 5
480	450	—	95	36	—	—	—	620	335	397	Tr480 × 5
500	470	—	85	36	580	208	247	—	—	—	Tr500 × 5
500	470	—	100	40	—	—	—	630	356	428	Tr500 × 5
530	500	—	90	40	630	216	265	—	—	—	Tr530 × 6
530	500	—	105	40	—	—	—	670	364	447	Tr530 × 6
560	530	—	97	40	650	227	282	—	—	—	Tr560 × 6
560	530	—	110	45	—	—	—	710	377	462	Tr560 × 6
600	560	—	97	40	700	239	289	—	—	—	Tr600 × 6
600	560	—	110	45	—	—	—	750	399	487	Tr600 × 6
630	600	—	97	45	730	254	301	—	—	—	Tr630 × 6
630	600	—	120	50	—	—	—	800	424	521	Tr630 × 6
670	630	—	102	45	780	264	324	—	—	—	Tr670 × 6
670	630	—	131	50	—	—	—	850	456	558	Tr670 × 6
710	670	—	112	50	830	286	342	—	—	—	Tr710 × 7
710	670	—	135	55	—	—	—	900	467	572	Tr710 × 7
750	710	—	112	55	870	291	356	—	—	—	Tr750 × 7
750	710	—	141	60	—	—	—	950	493	603	Tr750 × 7
800	750	—	112	55	920	303	366	—	—	—	Tr800 × 7
800	750	—	141	60	—	—	—	1 000	505	618	Tr800 × 7
850	800	—	115	60	980	308	380	—	—	—	Tr850 × 7
850	800	—	147	70	—	—	—	1 060	536	651	Tr850 × 7
900	850	—	125	60	1 030	326	400	—	—	—	Tr900 × 7
900	850	—	154	70	—	—	—	1 120	557	660	Tr900 × 7
950	900	—	125	60	1 080	344	420	—	—	—	Tr950 × 8
950	900	—	154	70	—	—	—	1 170	583	675	Tr950 × 8
1 000	950	—	125	60	1 140	358	430	—	—	—	Tr1000 × 8
1 000	950	—	154	70	—	—	—	1 240	609	707	Tr1000 × 8
1 060	1 000	—	125	60	1 200	372	447	—	—	—	Tr1060 × 8
1 060	1 000	—	154	70	—	—	—	1 300	622	—	Tr1060 × 8