

# SLOVENSKI STANDARD SIST ISO 2902:1995

01-november-1995

ISO metrski trapezni vijačni navoji - Splošni osnutek

ISO metric trapezoidal screw threads -- General plan

Filetages métriques trapézoïdaux ISO -- Vue d'ensemble

Ta slovenski standard je istoveten z: ISO 2902:1977

SIST ISO 2902:1995

https://standards.iteh.ai/catalog/standards/sist/ca22acdb-f6b2-43bf-ad5bac440a9fd38f/sist-iso-2902-1995

<u>ICS:</u>

21.040.10 Metrski navoji

Metric screw threads

SIST ISO 2902:1995

en



# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 2902:1995</u> https://standards.iteh.ai/catalog/standards/sist/ca22acdb-f6b2-43bf-ad5bac440a9fd38f/sist-iso-2902-1995



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXTYHAPODHAS OPTAHUSAUUS TO CTAHDAPTUSAUU.ORGANISATION INTERNATIONALE DE NORMALISATION

## ISO metric trapezoidal screw threads – General plan

Filetages métriques trapézoïdaux ISO – Vue d'ensemble

### First edition – 1977-10-01 ITeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 2902:1995</u> https://standards.iteh.ai/catalog/standards/sist/ca22acdb-f6b2-43bf-ad5bac440a9fd38f/sist-iso-2902-1995

UDC 621.882.082.4

Ref. No. ISO 2902-1977 (E)

Descriptors : screw threads, trapezoidal threads, specifications, designation, diameters, thread pitch.

Price based on 2 pages

2902

#### 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.

International Standard ISO 2902 was developed by Technical Committee VIEW ISO/TC 1, Screw threads, and was circulated to the member bodies in June 1976.

It has been approved by the member bodies of the following countries :

	<u>SISTISO 2902:1995</u>									
Austria	Iretandstandards.iteh.ai/catalog/omahiads/sist/ca22acdb-f6b2-43bf-ad									
Belgium	Italy a	ac440a9800thiAfric2982p1995								
Brazil	Japan	Spain								
Canada	Korea, Rep. of	Sweden								
Denmark	Mexico	Switzerland								
Finland	Netherlands	United Kingdom								
Germany	New Zealand	U.S.A.								
Hungary	Norway									
India	Poland									

The member bodies of the following countries expressed disapproval of the document on technical grounds :

France U.S.S.R.

© International Organization for Standardization, 1977 •

## ISO metric trapezoidal screw threads - General plan

#### **1 SCOPE AND FIELD OF APPLICATION**

This International Standard specifies a series of diameter and pitch combinations for ISO metric trapezoidal screw threads having the basic profile according to ISO 2901.

#### 2 REFERENCE

ISO 2901, ISO metric trapezoidal screw threads - Basic profile and maximum material profiles.

## 3 CHOICE OF DIAMETER AND PITCH

Choose, for preference, diameters in column to the S table and, if necessary, in column 2, and then column 3.

#### **4 DESIGNATION**

The one-start metric trapezoidal screw threads conforming to this International Standard shall be designated by the letters Tr, followed by the values of the nominal diameter and of the pitch expressed in millimetres and separated by the sign X.

Example : Tr 40 × 7

The multiple-start metric trapezoidal screw threads conforming to this International Standard shall be designated by the letters Tr followed by the values of the nominal diameter and of the lead for the multiple-start threads, separated by the sign x, and, in brackets, the letter P and the value of the pitch (axial distance between two neighbouring flanks in the same direction), all expressed in millimetres (see figure).

The diameters in column 3 shall not be used for Snew 902:1 Example : Tr 40 x 14 (P7)

nn 3 shall not be used to hew 702.1775https://standards.iteh.ai/catalog/standards/sist/ca22acdb-f6b2-43bf-adDead 77 defines a screw thread of 77 defines a screw thread of designs. For the diameter retained, choose one of the pitches

indicated on the corresponding line, for preference the pitches within frames.

If it is necessary to use a trapezoidal thread with a pitch other than indicated in the table, choose one of the pitches assigned to a neighbouring diameter.

40 diameter with 2 starts)

For left-hand metric trapezoidal screw threads conforming to this International Standard, the letters LH shall be added to the thread designation.

Example : Tr 40 × 14 (P7) LH

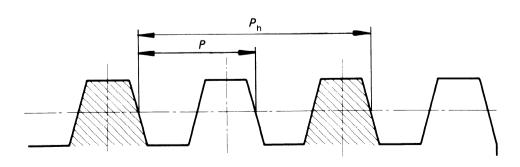


FIGURE - Lead and pitch of multiple-start thread

 $P_{\rm h}$  = lead (axial advance at one turn) P'' = pitch (axial distance between two neighbouring flanks in the same direction)

### SIST ISO 2902:1995

### ISO 2902-1977 (E)

### **5 DIAMETER/PITCH COMBINATIONS**

			T																						
Nom	inal diame	ters		]	1.00	0	1		1.00				1	ches	1 1 1 1 1 1						_1.1.1.1				
Col. 1	Col. 2	Col. 3	44	40	36	32	28	24	22	20	18	16	14	12	10	9	8	7	6	5	4	3	2	1,	
8			1	1	<u> </u>		<u> </u>		1															1,	
10	9																						2 2	1, 1,	
12	11																					3 3	<b>2</b> 2		
	14			ļ	ļ													ļ				3	2	-	
16	18																				4		2 2		
20	22																8			5	4	3	2	┝─	
24	26																8 8			5 5		3 3			
28	30			1	1										10		8		6	5		3 3			
<u>.</u>	30		 												10				6			3			
36	34														10 10				6 6			3 3			
40	38														10 10			7 7 7				3 3			
44	42													12	10			777				3 3			
48	46		1	1										12 12			8 8					3			
48	50													12			8 8					3 3			
52	55				iΊ	eh	S	T		ND	A	RI	14	12	E	9	8	N				3 3			
60							(	st	an	da	rc		1ŧ	h.	ai)	9						3			
70	65											16 16	100/		10 10			-			4				
80	75		<u> </u>	htt	ps://s	tanda	rds.i	teh.a	<u>5</u> /cata	<u>IST</u> log/s	I <u>SO 2</u> tanda	2 <u>9162</u> urd:6/s	: <u>1995</u> ist/ca	<b>-</b>	10 d <b>hof</b> i	5b2-	43bf	ad5t	)-		4				
90	85							ac	440a	9fd3	8 <mark>/18</mark> 18	-iso-	2902	- <mark>12</mark> 12	5						4 4				
100	95									20	18			12 12							4				
		105								20				12							4			ļ	
	110	115							22	20			14	12					6		4				
120		125							22 22				14 14						6 6						
	130	135						24	22				14 14						6 6						
140		145						24 24					14 14						6 6						
	150		ļ					24				16							6						
160		155					28	24				16 16							6 6 6						
	170	165					28 28					16 16							6 6						
180		175					28 28				18	16					8 8								
	190	185				32 32					18 18						8 8								
200		195	<b> </b>			32					18						8								
200 220	210				36 36	32				20 20	18						8 8 8								
	230		<u> </u>		36					20 20							8								
240	250			40	36				22 22					12			8								
260	270			40 40				24	22					12 12											
280				40				24						12											
300	290		44 44					24 24						12 12											