

DRAFT INTERNATIONAL STANDARD

ISO/DIS 2902

ISO/TC 1

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ISO metric trapezoidal screw threads — General plan

Filetages métriques trapézoïdaux ISO — Vue d'ensemble

ICS: 21.040.10

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 1.

This second edition cancels and replaces the first edition (ISO 2902:1977), **Clause 4** of which has been technically revised.

ISO metric trapezoidal screw threads — General plan

1 Scope

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

This international standard is chiefly applicable to traversing threads for traversing motion on machines, tools, etc. It can also be used for fastening threads.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2901, *ISO metric trapezoidal screw threads — Basic and design profiles*

ISO 2903, *ISO metric trapezoidal screw threads — Tolerances*

ISO 5408, *Screw threads — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5408 apply.

4 Choice of diameter and pitch

Choose, for preference, diameters in column 1 of Table 1 and, if necessary, in column 2, and then in column 3.

The diameters in column 3 shall not be used for new designs.

For the diameter selected, choose one of the pitches shown on the corresponding line, for preference, the pitches within broad frames.

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

5 Diameter and pitch combinations

The nominal diameter and pitch combinations are specified in Table 1.

6 Designation

A screw thread in conformity with this International Standard shall be designated according to ISO 2903.

Table 1 — Nominal diameter and pitch combinations (1 of 2)

Dimensions in millimetres

Nominal diameters <i>D, d</i>			Pitches <i>P</i>																					
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	1,5
8																								1,5
	9																						2	1,5
10																						2		1,5
	11																						3	2
12																							3	2
	14																						3	2
16																							4	2
	18																						4	2
20																							4	2
	22																8						5	3
24																	8						5	3
	26																8						5	3
28																	8						5	3
	30														10								6	3
32															10								6	3
	34														10								6	3
36															10								6	3
	38														10								7	3
40															10								7	3
	42														10								7	3
44														12									7	3
	46														12								8	3
48															12								8	3
	50														12								8	3
52															12								8	3
	55											14											9	3
60												14											9	3
	65																						10	4
70																							10	4
	75																						10	4
80																							10	4
	85																						12	4
90																							12	4
	95																						12	4
100																							12	4
		105																					12	4
	110																						12	4
		115							22														14	6
120									22														14	6
		125							22														14	6
	130								22														14	6
		135						24															14	6

Table 1 — Nominal diameter and pitch combinations (2 of 2)

Dimensions in millimetres

Nominal diameters <i>D, d</i>			Pitches <i>P</i>																						
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	1,5	
140		145						24					14							6					
	150							24				16								6					
		155						24				16								6					
160		165					28					16								6					
		170					28					16								6					
	175						28					16					8								
180							28					18					8								
		185				32						18					8								
	190					32						18					8								
		195				32						18					8								
200						32						18					8								
	210				36							20					8								
220					36							20					8								
	230				36							20					8								
240					36							22					8								
	250			40								22			12										
260				40								22			12										
	270			40								24			12										
280				40								24			12										
	290		44									24			12										
300			44									24			12										

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