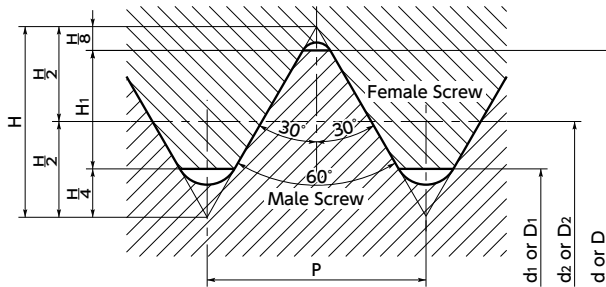


# Unified Coarse Screw Threads/Unified Fine Screw Threads

Excerpts from JIS B 0206:1973 / JIS B 0208:1973

## Basic profile, formula and basic dimensions of unified coarse threads / fine threads



$$P = \frac{25.4}{n}$$

$$H = \frac{0.866025}{n} \times 25.4$$

$$H_1 = \frac{0.541266}{n} \times 25.4$$

$$d = (d) \times 25.4 \quad D = d$$

$$d_2 = \left( d - \frac{0.649519}{n} \right) \times 25.4 \quad D_2 = d_2$$

$$d_1 = \left( d - \frac{1.082532}{n} \right) \times 25.4 \quad D_1 = d_1$$

### How to check inch screws

e.g. No.8 - 32 UNC  
 Nominal Diameter of Thread: 8  
 Number of screw threads: 32  
 UNC: Coarse  
 UNF: Fine

Number of screw threads(n):  
 Number of screw threads per inch (25.4mm)  
 Pitch (P):  
 1 inch (25.4mm) ÷ number of screw threads

### Unified coarse threads

Unit: mm

Nominal diameter of thread*		Female Screw		
		Root diameter D	Effective diameter D <sub>2</sub>	Inside diameter D <sub>1</sub>
1	2	Male Screw		
		Outside diameter d	Effective diameter d <sub>2</sub>	Root diameter d <sub>1</sub>
No. 2-56 UNC	No. 1-64 UNC	1.854	1.598	1.425
	No. 3-48 UNC	2.184	1.890	1.694
		2.515	2.172	1.941
No. 4-40 UNC No. 5-40 UNC No. 6-32 UNC		2.845	2.433	2.156
		3.175	2.764	2.487
		3.505	2.990	2.647
No. 8-32 UNC No. 10-24 UNC	No.12-24 UNC	4.166	3.650	3.307
		4.826	4.138	3.680
		5.486	4.798	4.341
1/4-20 UNC 5/16-18 UNC 3/8-16 UNC		6.350	5.524	4.976
		7.938	7.021	6.411
		9.525	8.494	7.805
7/16-14 UNC 1/2-13 UNC		11.112	9.934	9.149
		12.700	11.430	10.584

\* Prioritize Field 1, and choose Field 2 as needed.

### Unified fine threads

Unit: mm

No. 0-80 UNF	No. 1-72 UNF	1.524	1.318	1.181
No. 2-64 UNF		1.854	1.626	1.473
		2.184	1.928	1.755
No. 4-48 UNF No. 5-44 UNF	No. 3-56 UNF	2.515	2.220	2.024
		2.845	2.502	2.271
		3.175	2.799	2.550
No. 6-40 UNF No. 8-36 UNF No. 10-32 UNF		3.505	3.094	2.817
		4.166	3.708	3.401
		4.826	4.310	3.967
1/4-28 UNF 5/16-24 UNF	No.12-28 UNF	5.486	4.897	4.503
		6.350	5.761	5.367
		7.938	7.249	6.792
3/8-24 UNF 7/16-20 UNF 1/2-20 UNF		9.525	8.837	8.379
		11.112	10.287	9.738
		12.700	11.874	11.326

\* Prioritize Field 1, and choose Field 2 as needed.