

Transformed

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**ISO RECOMMENDATION
R 1222**

PHOTOGRAPHIC EQUIPMENT

TRIPOD CONNECTIONS

1st EDITION

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PHOTOGRAPHIC EQUIPMENT

TRIPOD CONNECTIONS

1. SCOPE

This ISO Recommendation prescribes the screw connections between a camera and a tripod or other accessories.

2. FORM, BASIC DIMENSIONS, DEVIATIONS AND TOLERANCES

The form and dimensions of the connections are shown in the following figures and tables :

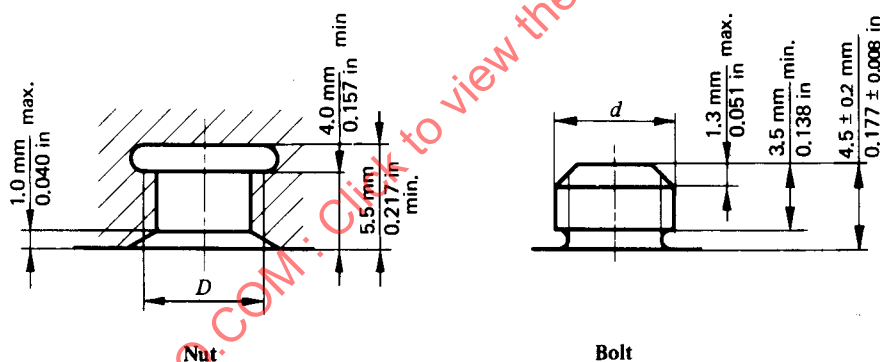


FIGURE 1 – Dimensions of nut and bolt

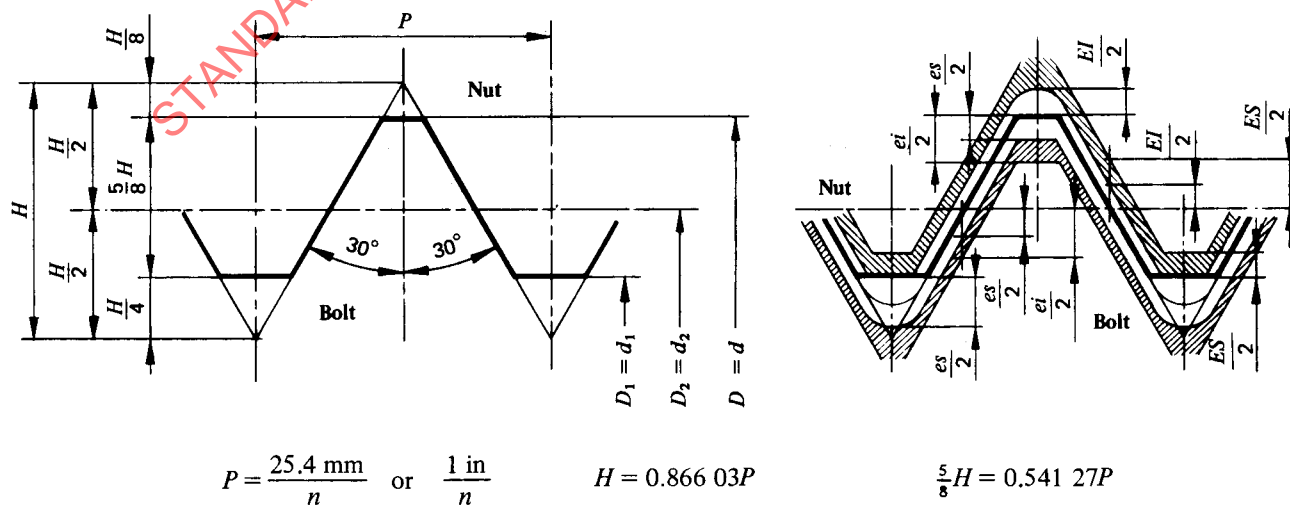


FIGURE 2 – Nut and bolt screw-threads

TABLE 1 — Nut threads

UNC MOD size (in)	Number of threads per 25.4 mm (1 in) <i>n</i>	Pitch <i>P</i>		Diameters		Major diameter <i>D</i>		Pitch diameter <i>D</i> ₂		Minor diameter <i>D</i> ₁	
		mm	in			mm	in	mm	in	mm	in
$\frac{1}{4}$	20	1.270	0.050 0	Basic dimensions		6.350	0.250 0	5.525	0.217 5	4.975	0.195 9
				Deviations	upper (<i>ES</i>)	---	---	+ 0.295	+ 0.011 6	+ 0.292	+ 0.011 5
					lower (<i>EI</i>)	+ 0.110	+ 0.004 3	+ 0.110	+ 0.004 3	0	0
				Tolerances		---	---	0.185	0.007 3	0.292	0.011 5
$\frac{3}{8}$	16	1.588	0.062 5	Basic dimensions		9.525	0.375 0	8.494	0.334 4	7.806	0.307 3
				Deviations	upper (<i>ES</i>)	---	---	+ 0.366	+ 0.014 4	+ 0.357	+ 0.014 1
					lower (<i>EI</i>)	+ 0.150	+ 0.005 9	+ 0.150	+ 0.005 9	0	0
				Tolerances		---	---	0.216	0.008 5	0.357	0.014 1

TABLE 2 — Bolt threads

UNC MOD size (in)	Number of threads per 25.4 mm (1 in) <i>n</i>	Pitch <i>P</i>		Diameters		Major diameter <i>d</i>		Pitch diameter <i>d</i> ₂		Minor diameter <i>d</i> ₁	
		mm	in			mm	in	mm	in	mm	in
$\frac{1}{4}$	20	1.270	0.050 0	Basic dimensions		6.350	0.250 0	5.525	0.217 5	4.975	0.195 9
				Deviations	upper (<i>es</i>)	− 0.028	− 0.001 1	− 0.028	− 0.001 1	− 0.212	− 0.008 3
					lower (<i>ei</i>)	− 0.338	− 0.013 3	− 0.170	− 0.006 7	---	---
				Tolerances		0.310	0.012 2	0.142	0.005 6	---	---
$\frac{3}{8}$	16	1.588	0.062 5	Basic dimensions		9.525	0.375 0	8.494	0.334 4	7.806	0.307 3
				Deviations	upper (<i>es</i>)	− 0.033	− 0.001 3	− 0.033	− 0.001 3	− 0.262	− 0.010 3
					lower (<i>ei</i>)	− 0.393	− 0.015 5	− 0.199	− 0.007 8	---	---
				Tolerances		0.360	0.014 2	0.166	0.006 5	---	---

NOTES

1. Basic profile of screw threads should be in accordance with ISO Recommendation R 68, *ISO General purpose screw threads — Basic profile*.
2. Basic dimensions of screw threads should be in accordance with ISO Recommendation R 725, *ISO Inch screw threads — Basic dimensions*.
3. Deviations and tolerances refer basically to UNC 1A and 1B in ISO Recommendation R 1192*, *ISO Inch screw threads — Tolerances*, (with minor changes for deviations *D* and *D*₂ considering the international interchangeability with existing apparatus).

* At present Draft ISO Recommendation No. 784.