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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Photography — Tripod connections

Photographie — Pièces d'assemblage d'un appareil photographique sur un pied

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ISO 1222:1987

<https://standards.iteh.ai/catalog/standards/sist/12e65a2b-b118-4244-a35e-4c27ce5b85c0/iso-1222-1987>

Reference number
ISO 1222:1987 (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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1222 was prepared by Technical Committee ISO/TC 42, *Photography*.

This second edition cancels and replaces the first edition (ISO 1222:1973), to which a new clause 3 has been added. <https://standards.iteh.ai/catalog/standards/sist/12e65a2b-b118-4244-a35e-4c27ce5b85c0/iso-1222-1987>

This revision of ISO 1222 : 1973 specifies that the bearing surfaces of the tripod be constructed in a manner that avoids damaging cameras when they are attached.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Photography – Tripod connections

1 Scope and field of application

This International Standard specifies the screw connections to be used between a camera and a tripod or other accessories.

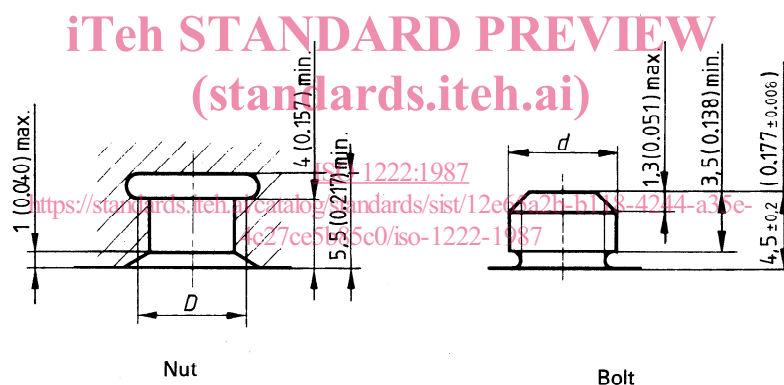
2 Form, basic dimensions, deviations and tolerances

The form and dimensions of connections shall be as shown in the figures and tables.

3 Bearing face between a nut side and a bolt side

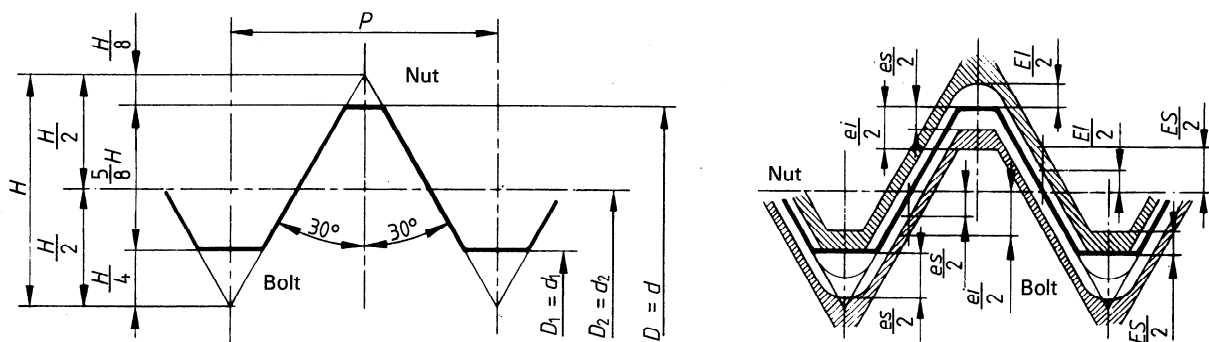
3.1 Dimensions of the bearing faces shall be chosen according to the camera, tripod or accessories.

3.2 The bearing face shall be free from protrusions. If there is a recess, the diameter of the recess around the bolt shall not be larger than 12 mm (for the 1/4 in size) or 20 mm (for the 3/8 in size), and the depth of the recess shall be as small as possible.



Dimensions in millimetres
(Inches in parentheses)

Figure 1 – Dimensions of nut and bolt



$$P = \frac{25,4 \text{ mm}}{n} \text{ or } \frac{1 \text{ in}}{n}$$

$$H = 0,866 03 P$$

$$\frac{5}{8} H = 0,541 27 P$$

Figure 2 – Nut and bolt screw-threads

Table 1 – Nut threads

UNC MOD size	Number of threads per 25,4 mm (1 in)	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	
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
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	Number of threads per 25,4 mm (1 in)	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	
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	...	...
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 shall be in accordance with ISO/R 68, *ISO General purpose screw threads – Basic profile*.
- 2 Basic dimensions of screw threads shall be in accordance with ISO/R 725, *ISO Inch screw threads – Basic dimensions*.
- 3 Deviations and tolerances refer basically to UNC 1A and 1B (with minor changes for deviations *D* and *D*₂ to allow international interchangeability with existing apparatus).

UDC 771.347 : 621.882.1

Descriptors : photography, photographic equipment, cameras, photographic tripods, dimensions, connecting dimensions.

Price based on 2 pages