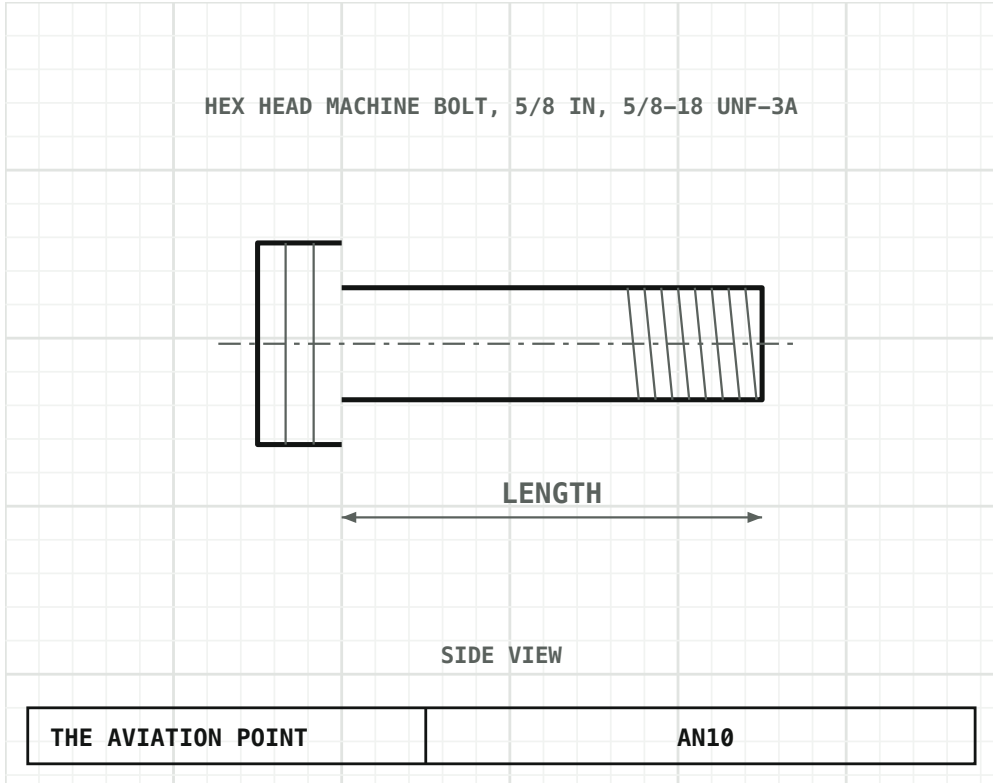
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AN10 — hex head machine bolt, 5/8 in, 5/8-18 UNF-3A

AN10: 5/8 in hex head machine bolt with a 5/8-18 UNF-3A thread.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hexagon head machine bolt
Material	Non-corrosion-resistant steel, corrosion-resistant steel or aluminum alloy; finish per the procurement specification
Status	Check the current issue before design use. Cancelled by Notice 1 (Dec 1999) and superseded by NASM3 thru NASM20; the notice states the part numbers are identical.

Dimensions by size

Dimension, in	5/8-18 UNF-3A
Thread	5/8-18 UNF-3A
A max — A dia, max	.624
A min — A dia, min	.620
B max — B, max (across flats)	.940
B min — B, min (across flats)	.928
C — C, ref (across corners)	1.090
D max — D, max (head height)	.360
D min — D, min (head height)	.328
H — H dia, min	.898
J — J drill (shank hole), +.010 -.000	.141
K — K drill (head hole), +.010 -.000	.070

Dimensions in inches, as tabulated in the standard (letters as on its drawing).

Part numbers

5/8-18 UNF-3A 58 part numbers

Part no.	Grip, in	Length, in
AN10-7	1/16	1-1/64
AN10-10	3/16	1-9/64
AN10-11	5/16	1-17/64
AN10-12	7/16	1-25/64
AN10-13	9/16	1-33/64
AN10-14	11/16	1-41/64
AN10-15	13/16	1-49/64
AN10-16	15/16	1-57/64
AN10-17	1-1/16	2-1/64
AN10-20	1-3/16	2-9/64
AN10-21	1-5/16	2-17/64
AN10-22	1-7/16	2-25/64
AN10-23	1-9/16	2-33/64
AN10-24	1-11/16	2-41/64
AN10-25	1-13/16	2-49/64
AN10-26	1-15/16	2-57/64
AN10-27	2-1/16	3-1/64
AN10-30	2-3/16	3-9/64
AN10-31	2-5/16	3-17/64
AN10-32	2-7/16	3-25/64
AN10-33	2-9/16	3-33/64
AN10-34	2-11/16	3-41/64
AN10-35	2-13/16	3-49/64
AN10-36	2-15/16	3-57/64
AN10-37	3-1/16	4-1/64
AN10-40	3-3/16	4-9/64
AN10-41	3-5/16	4-17/64
AN10-42	3-7/16	4-25/64
AN10-43	3-9/16	4-33/64
AN10-44	3-11/16	4-41/64
AN10-45	3-13/16	4-49/64
AN10-46	3-15/16	4-57/64
AN10-47	4-1/16	5-1/64
AN10-50	4-3/16	5-9/64
AN10-51	4-5/16	5-17/64
AN10-52	4-7/16	5-25/64
AN10-53	4-9/16	5-33/64
AN10-54	4-11/16	5-41/64
AN10-55	4-13/16	5-49/64
AN10-56	4-15/16	5-57/64
AN10-57	5-1/16	6-1/64
AN10-60	5-3/16	6-9/64
AN10-61	5-5/16	6-17/64
AN10-62	5-7/16	6-25/64
AN10-63	5-9/16	6-33/64
AN10-64	5-11/16	6-41/64
AN10-65	5-13/16	6-49/64
AN10-66	5-15/16	6-57/64
AN10-67	6-1/16	7-1/64
AN10-70	6-3/16	7-9/64
AN10-71	6-5/16	7-17/64
AN10-72	6-7/16	7-25/64
AN10-73	6-9/16	7-33/64
AN10-74	6-11/16	7-41/64
AN10-75	6-13/16	7-49/64
AN10-76	6-15/16	7-57/64
AN10-77	7-1/16	8-1/64
AN10-80	7-3/16	8-9/64

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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How to read the part number

Part	Meaning
Format	AN10-<dash>
Example	AN10-7 — Non-corrosion-resistant steel bolt, 5/8 in, grip 1/16, length 1-1/64, drilled shank only

Notes

- Dash number sets the length and grip. Add C before the dash number for a corrosion-resistant steel bolt and DD for an aluminum alloy bolt; A after the dash number for an undrilled bolt; H before the dash number for a drilled head and shank; H before and A after for a drilled head only.
- Examples: AN10-10 is the non-corrosion-resistant steel bolt with a drilled shank only; AN10C10 is the corrosion-resistant steel bolt; AN10-10A is undrilled.
- Grip tolerance ±1/64 in; length tolerance +1/32 −1/64 in. Grip is measured from the underside of the head to the end of the full cylindrical portion of the shank; complete threads begin within two thread pitches at most.
- Part number format as commonly written; check the standard for the exact format.
- Approved data governs. Use the bolt the SRM, drawing or IPC calls for.

SOURCES · AN3 thru AN20 Rev. 12, 14 Jan 1991 — Bolt — Machine, Aircraft

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an10/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.