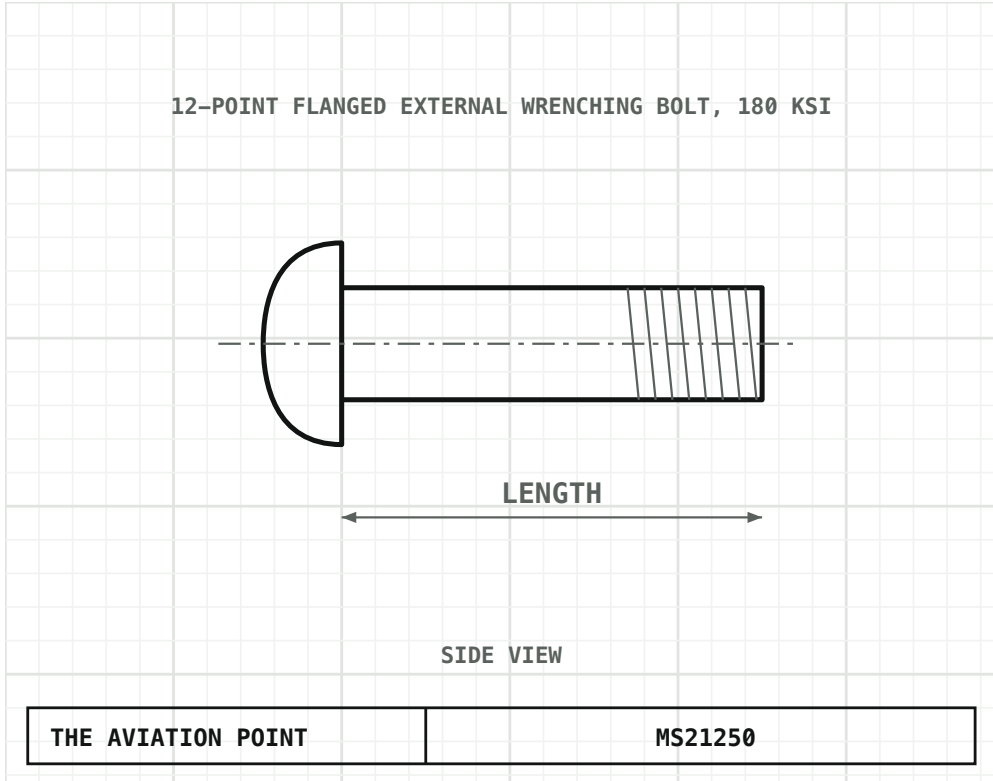
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MS21250 — 12-point flanged external wrenching bolt, 180 ksi

Bolt, External Wrenching, Flanged, 12 Point, 180 ksi: thread, grip, length and commonly stocked part numbers.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	12-point flanged external wrenching bolt
Strength	180 ksi
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	.1900-32	.2500-28	.3125-24	.3750-24
Thread	.1900-32	.2500-28	.3125-24	.3750-24

Thread as stated for the standard. Head and shank dimensions are not shown here: take them from the standard.

Part numbers

.1900-32 10 part numbers

Part no.	Grip, in	Length, in
MS21250-03006	.375	.815
MS21250-03008	.500	.940
MS21250-03010	.625	1.065
MS21250-03012	.750	1.190
MS21250-03014	.875	—
MS21250-03016	1.000	1.440
MS21250-03018	1.125	1.565
MS21250-03020	1.250	1.690
MS21250-03022	1.375	1.815
MS21250-03024	1.500	1.940

.3125-24 10 part numbers

Part no.	Grip, in	Length, in
MS21250-05006	.375	.974
MS21250-05008	.500	1.099
MS21250-05010	.625	1.224
MS21250-05012	.750	1.349
MS21250-05014	.875	1.474
MS21250-05016	1.000	1.599
MS21250-05018	1.125	1.724
MS21250-05020	1.250	1.849
MS21250-05022	1.375	1.974
MS21250-05024	1.500	2.099

.2500-28 10 part numbers

Part no.	Grip, in	Length, in
MS21250-04006	.375	.887
MS21250-04008	.500	1.012
MS21250-04010	.625	1.137
MS21250-04012	.750	1.262
MS21250-04014	.875	1.387
MS21250-04016	1.000	1.512
MS21250-04018	1.125	1.637
MS21250-04020	1.250	1.762
MS21250-04022	1.375	1.887
MS21250-04024	1.500	2.012

.3750-24 10 part numbers

Part no.	Grip, in	Length, in
MS21250-06006	.375	1.020
MS21250-06008	.500	1.145
MS21250-06010	.625	1.270
MS21250-06012	.750	1.395
MS21250-06014	.875	1.520
MS21250-06016	1.000	1.645
MS21250-06018	1.125	1.770
MS21250-06020	1.250	1.895
MS21250-06022	1.375	2.020
MS21250-06024	1.500	2.145

How to read the part number

Part	Meaning
Format	MS21250-<dash>
Example	MS21250-03006 — 12-point flanged bolt, .1900-32 thread, grip .375, length .815

Notes

- Grip tolerance ±.010.

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

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- Part number: first dash is the thread (-03 .1900-32, -04 .2500-28, -05 .3125-24, -06 .3750-24); the second dash is the grip number.
- The length of -03 with second dash 014 is illegible in the source and left blank.
- 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 · MS21250 — Bolt, External Wrenching, Flanged, 12 Point, 180 ksi

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/ms21250/

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