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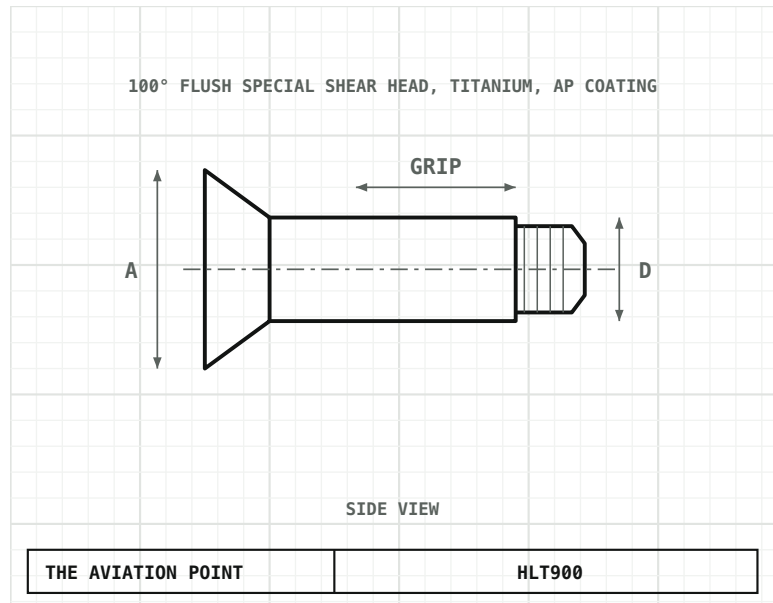
The Aviation Point

HLT900 pin — 100° flush special shear head, titanium, AP coating

Hi-Lok Pin, 100° Flush Special Shear Head, Titanium, AP Hi-Kote 1: dimensions by size, strength and every listed part number.



HLT900



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok pin, 100° flush special shear head, titanium
Material	Titanium (6AL-4V per the catalogue quick-reference chart)
Strength	95,000 psi shear min.
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	10-32-UNJF-3A Modified	1/4-28UNJF-3A Modified
Nominal diameter	3/16	1/4
A — Head diameter (max / min)	.3277	.4283
B — Ref. (see drawing)	.341	.416
D — Shank diameter (max / min)	.1895 - .1885	.2495 - .2485
TD — Threaded-end diameter (max / min)	.1840 - .1810	.2440 - .2410
H — H (max / min, see drawing)	.047 - .037	.055 - .045
Thread	10-32-UNJF-3A Modified	1/4-28UNJF-3A Modified
Double shear, lb min	5,380	9,300
Tension, lb min	2,400	4,500
A1 — See drawing	.2963	.3969
Z — Z, max	.015	.015

Dimensions as tabulated in the catalogue, by first dash number (nominal diameter). Max - min where a tolerance is shown.

Part numbers

3/16 6 part numbers

Part no.	Max grip, in
HLT900AP6-3	3/16
HLT900AP6-4	1/4
HLT900AP6-5	5/16
HLT900AP6-6	3/8
HLT900AP6-7	7/16
HLT900AP6-8	1/2

1/4 6 part numbers

Part no.	Max grip, in
HLT900AP8-3	3/16
HLT900AP8-4	1/4
HLT900AP8-5	5/16
HLT900AP8-6	3/8
HLT900AP8-7	7/16
HLT900AP8-8	1/2

How to read the part number

Part	Meaning
Format	HLT900AP<dash>
Example	HLT900AP6-3 — 3/16 nominal diameter, max grip 3/16 in

Notes

- Titanium, 1/16 in grip variation. Hi-Kote 1 aluminum coating (AP) per Hi-Shear spec. 294 and cetyl alcohol lube per Hi-Shear spec. 305.
- Approved data governs. Use the pin the drawing, SRM or IPC calls for.
- Grip: the number after the second dash is the max grip in 1/16 in (dash -2 = 1/8 in, -3 = 3/16 in, and so on). Maximum-minimum values are shown as max - min.

SOURCES · HLT900 — Hi-Lok Pin, 100° Flush Special Shear Head, Titanium, AP Hi-Kote 1

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hlt900/

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

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