THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT

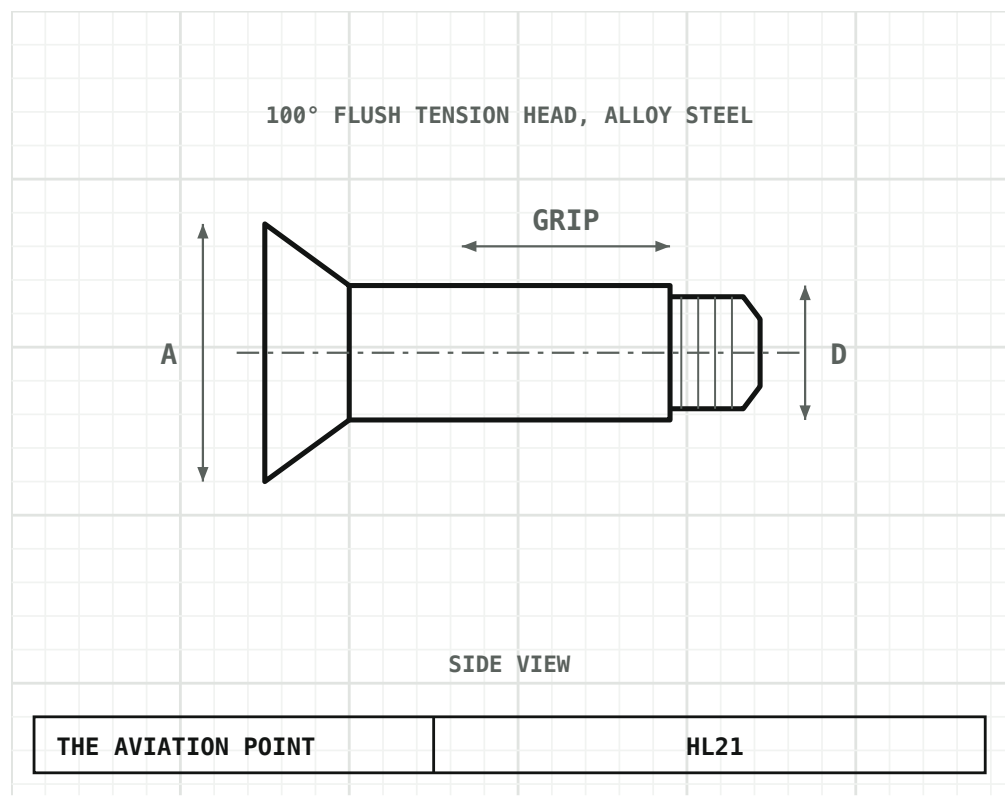


# HL21 pin — 100° flush tension head, alloy steel

Hi-Lok Pin, 100° Flush Tension Head, Alloy Steel: dimensions by size, strength and every listed part number.



HL21




Engineering drawing · dimensions in inches

## Specification

| Item | Value |
|---|---|
| Type | Hi-Lok pin, 100° flush tension head |
| Material | Alloy steel |
| Strength | 160,000-180,000 psi tensile |
| Status | Check the current issue before design use. |

## Dimensions by size

| Dimension, in | 8-32UNJC-3A Modified | 10-32-UNJF-3A Modified | 1/4-28UNJF-3A Modified |
|---|---|---|---|
| Nominal diameter | 5/32 | 3/16 | 1/4 |
| A — Head diameter (max / min) | .3304 - .3256 | .3813 - .3765 | .5066 - .5018 |
| B — Ref. (see drawing) | .312 | .325 | .395 |
| D — Shank diameter (max / min) | .1635 - .1625 | .1895 - .1885 | .2495 - .2485 |
| TD — Threaded-end diameter (max / min) | .1595 - .1570 | .1840 - .1810 | .2440 - .2410 |
| H — H (max / min, see drawing) | .0700 - .0680 | .0805 - .0785 | .1080 - .1060 |
| Thread | 8-32UNJC-3A Modified | 10-32-UNJF-3A Modified | 1/4-28UNJF-3A Modified |
| Double shear, lb min | 4,010 | 5,380 | 9,300 |
| Tension, lb min | 2,180 | 3,180 | 5,820 |

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

## Part numbers

**5/32** 13 part numbers

| Part no. | Max grip, in |
|---|---|
| HL21PB5-2 | 1/8 |
| HL21PB5-3 | 3/16 |
| HL21PB5-4 | 1/4 |
| HL21PB5-5 | 5/16 |
| HL21PB5-6 | 3/8 |
| HL21PB5-7 | 7/16 |
| HL21PB5-8 | 1/2 |
| HL21PB5-9 | 9/16 |
| HL21PB5-10 | 5/8 |
| HL21PB5-11 | 11/16 |
| HL21PB5-12 | 3/4 |
| HL21PB5-13 | 13/16 |
| HL21PB5-14 | 7/8 |

**3/16** 13 part numbers

| Part no. | Max grip, in |
|---|---|
| HL21PB6-2 | 1/8 |
| HL21PB6-3 | 3/16 |
| HL21PB6-4 | 1/4 |
| HL21PB6-5 | 5/16 |
| HL21PB6-6 | 3/8 |
| HL21PB6-7 | 7/16 |
| HL21PB6-8 | 1/2 |
| HL21PB6-9 | 9/16 |
| HL21PB6-10 | 5/8 |
| HL21PB6-11 | 11/16 |
| HL21PB6-12 | 3/4 |
| HL21PB6-13 | 13/16 |
| HL21PB6-14 | 7/8 |

**1/4** 13 part numbers

| Part no. | Max grip, in |
|---|---|
| HL21PB8-2 | 1/8 |
| HL21PB8-3 | 3/16 |
| HL21PB8-4 | 1/4 |
| HL21PB8-5 | 5/16 |
| HL21PB8-6 | 3/8 |
| HL21PB8-7 | 7/16 |
| HL21PB8-8 | 1/2 |
| HL21PB8-9 | 9/16 |
| HL21PB8-10 | 5/8 |
| HL21PB8-11 | 11/16 |
| HL21PB8-12 | 3/4 |
| HL21PB8-13 | 13/16 |
| HL21PB8-14 | 7/8 |

## How to read the part number

| Part | Meaning |
|---|---|
| Format | HL21PB<dash> |
| Example | HL21PB5-2 — 5/32 nominal diameter, max grip 1/8 in |

## Notes

- Approved data governs. Use the pin the drawing, SRM or IPC calls for.

THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT



- 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.
- Collars listed for this pin in the catalogue quick-reference chart: HL75, HL86, HL87.

**SOURCES** · HL21 — Hi-Lok Pin, 100° Flush Tension Head, Alloy Steel

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl21/



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