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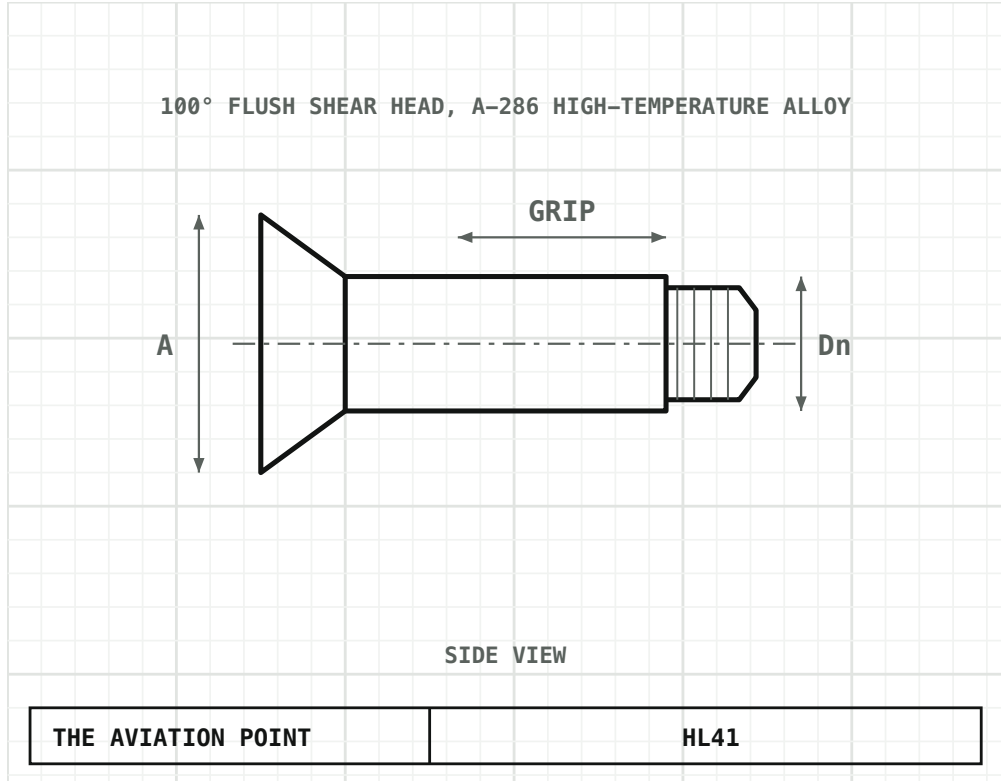
The Aviation Point

HL41 pin — 100° flush shear head, A-286 high-temperature alloy

Hi-Lok Pin, 100° Flush Shear Head, A-286 High Temperature Alloy: dimensions by size, strength and every listed part number.



HL41



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hi-Lok pin, 100° flush shear head, A-286
Material	A-286 high-temperature alloy
Strength	95,000 psi shear min.
Status	Check the current issue before design use.

Dimensions by size

Dimension, in	6-32	8-32	10-32
Nominal diameter	1/8	5/32	3/16
A — Head diameter (max / min)	.2219 - .2171	.2612 - .2564	.3016 - .2966
B — Ref. (see drawing)	.294	.312	.325
TD — Threaded-end diameter (max / min)	.1335 - .1310	.1595 - .1570	.1840 - .1810
H — H (max / min, see drawing)	.0354 - .0334	.0410 - .0390	.0470 - .0449
Thread	6-32	8-32	10-32
Double shear, lb min	2,840	4,010	5,380
Tension, lb min	950	1,750	2,000
Dn — Shank diameter, without coating or solid film lube (max / min)	.1375 - .1370	.1635 - .1630	.1895 - .1890
Dc — Shank diameter, with coating or solid film lube (max / min)	.1375 - .1365	.1635 - .1625	.1895 - .1885

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

Part numbers

1/8 12 part numbers

Part no.	Max grip, in
HL41-4-3	3/16
HL41-4-4	1/4
HL41-4-5	5/16
HL41-4-6	3/8
HL41-4-7	7/16
HL41-4-8	1/2
HL41-4-9	9/16
HL41-4-10	5/8
HL41-4-11	11/16
HL41-4-12	3/4
HL41-4-13	13/16
HL41-4-14	7/8

5/32 12 part numbers

Part no.	Max grip, in
HL41-5-3	3/16
HL41-5-4	1/4
HL41-5-5	5/16
HL41-5-6	3/8
HL41-5-7	7/16
HL41-5-8	1/2
HL41-5-9	9/16
HL41-5-10	5/8
HL41-5-11	11/16
HL41-5-12	3/4
HL41-5-13	13/16
HL41-5-14	7/8

3/16 12 part numbers

Part no.	Max grip, in
HL41-6-3	3/16
HL41-6-4	1/4
HL41-6-5	5/16
HL41-6-6	3/8
HL41-6-7	7/16
HL41-6-8	1/2
HL41-6-9	9/16
HL41-6-10	5/8
HL41-6-11	11/16
HL41-6-12	3/4
HL41-6-13	13/16
HL41-6-14	7/8

How to read the part number

Part	Meaning
Format	HL41-<dash>
Example	HL41-4-3 — 1/8 nominal diameter, max grip 3/16 in

Notes

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

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

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- 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: HL70, HL79, HL82, HL94.

SOURCES · HL41 — Hi-Lok Pin, 100° Flush Shear Head, A-286 High Temperature Alloy

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/hi-lok/hl41/

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