

HEARTLAND

PRECISION FASTENERS, INC.

Toll Free (877) 4HP-BOLT Tele (913) 829-4447
 (447-2658) Fax (913) 829-7282
 301 Prairie Village Drive
 New Century, KS 66031

www.heartlandfasteners.com

We Put Our Heart in Every Part

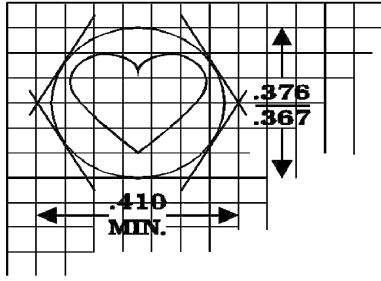
ISO 9001:2000 / AS9100 Revision B / BS EN ISO 9001:2000 Registered

NAS Standards

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>	<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
144/158	SOCKET HEAD	ALLOY	1801	HEX	ALLOY
333/338	100°	ALLOY	1802	HEX	A-286
428	CROWN HEX	ALLOY, A-286	1953/1958	HEX	ALLOY ONLY
464P	HEX	ALLOY	1972/1978	100°	ALLOY ONLY
514	100°	ALLOY	1992/1998	100°	ALLOY ONLY
517	100°	ALLOY	2813/2818	HEX	ALLOY ONLY
560	100°	304,A-286	2832/2836	100°	ALLOY ONLY
583/588R	100°	ALLOY	2852/2858	100° CROWN	ALLOY ONLY
601/606	PAN	ALLOY	2903/2908	HEX	ALLOY
623	PAN	ALLOY	4401/4408	100°	ALLOY
1003/1008	HEX	A-286	4501/4508	100°	A-286
1096	HEX	ALLOY	5313	100°	ALLOY
1100	PAN	ALLOY, A-286	4803/4808	100°	A-286
1102	100°	ALLOY, A-286	5001/5006	PAN	ALLOY
1103/1108	HEX	ALLOY	5101/5106	PAN	A-286
1131/1138	PAN	ALLOY, A-286	5310	130°	A-286/Ti
1141/1148	PAN	ALLOY, A-286	5311	FLAT FILLISTER	A-286/Ti
1151/1158	100°	ALLOY, A-286	5312	100°	A-286/Ti
1160	HEX	A-286	5313	FLAT FILLISTER	A-286/Ti
1161/1168	100°	ALLOY, A-286	5314	PAN	A-286/Ti
1171/1178	PAN	ALLOY, A-286	5315	100°	A-286/Ti
1189	100°	ALLOY, A-286	5316	100°	A-286/Ti
1190	PAN	ALLOY, A-286	5317	PAN	A-286/Ti
1202/1208	100°	ALLOY	5318	FLAT PAN	A-286/Ti
1218R	PAN	ALLOY, A-286	5319	100°	A-286/Ti
1221R	100°	ALLOY, A-286	5320	100°	A-286/Ti
1223/1228	HEX	ALLOY, A-286	5321	100°	A-286
1297	HEX	ALLOY	5601/5606	100°	ALLOY
1303/1308	HEX	ALLOY	5701/5706	100°	A-286
1403/1406	PAN	ALLOY	5901/5903	HEX	ALLOY
1578	FLAT PAN	ALLOY, A-286	6001/6003	HEX	A-286
1580	100°	ALLOY, A-286	6203/6208	HEX	ALLOY
1581	100°	ALLOY, A-286	6303/6308	HEX	A-286
1582	100°	ALLOY, A-286	6603/6608	HEX	ALLOY
1621/1628	100°	ALLOY, A-286	6703/6708	HEX	A-286
1631/1634	PAN	ALLOY, A-286	6901/6906	PAN	A-286
1741	100°	ALLOY, A-286	7103/7108	100°	ALLOY
1790	100°	ALLOY, A-286	7203/7208	100°	A-286

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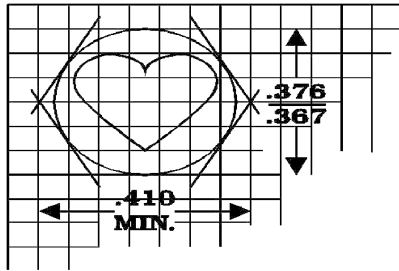
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NAS Standards, Continued

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
7401/7408	100°	ALLOY
7501/7508	100°	A-286
7701/7706	PAN	ALLOY
7801/7806	PAN	A-286
8001/8006	PAN	ALLOY
8101/8106	PAN	A-286
8302/8304	PAN, WASHER	ALLOY
8402/8404	PAN, WASHER	A-286
8602/8608	100°	ALLOY
8702/8708	100°	A-286
9101/9106	HEX	A-286

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Boeing Standards

Commercial/Helicopter

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
BACB30FD	FLANGED 12 PT.	ALLOY
BACS12CA	PAN	ALLOY
BACS12CB	RECESSED HEX	8640/4037
BACS12CK	PAN	A286
BACS12GX	100° FLUSH	A286
BACS12HK	FILLISTER	A286
BACS12HL	SOCKET HEAD CAP	ALLOY/A286
BACS12HM	SOCKET HEAD CAP	ALLOY/A286
BACS12HN	RECESSED HEX	A286
BACS12HP	HEX	A286
BACS12HT	FILLISTER	A-286/Ti
BACS12HU	FLAT PAN	A-286/Ti
BACS12HV	RECESSED HEX	A-286/Ti
BACS12HW	PAN	A-286/Ti
BACS12HY	PAN	A-286/Ti
BACS12JA	100° FLUSH	A-286/Ti
BACS12JB	100° FLUSH	A-286/Ti
BACS12JC	100° REDUCED	A-286/Ti
BACS12JD	100° FLUSH	A-286/Ti

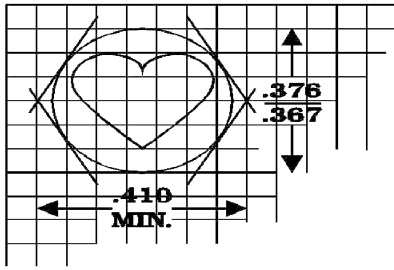
St. Louis, Continued

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
3M1100	PROTRUDING	A-286
3M1140	100°	300 CRES
3M1142	HEX	PH13-8MO
3M1169	100°	TI, PH-13
3M1170	100°	TI, PH-13
3M1220	100°	300 CRES
3M1231	HEX	A-286
3M1262	100°	PH13-8MO
3M1285	HEX	A-286
K3M9	100°	300 CRES
ST3M457	HEX	ALLOY
K3M12	HEX	A-286
K3M14	HEX	ALLOY
K3M15	PIN 100°	ALLOY
S4928913	HEX	ALLOY
ST3M453	DOUBLE HEX	PH13-8MO
ST3M456	100°	PH13-8MO
ST3M457	PROTRUDING	PH13-8MO
ST3M497	DOUBLE HEX	PH13-8MO
ST3M501	PROTRUDING	PH13-8MO
ST3M507	DOUBLE HEX	PH13-8MO
ST3M560	PAN	300 CRES
ST3M758	CROWN/FLAT	PH13-8MO
ST3M759	PROTRUDING	PH13-8MO
ST3M760	CROWN/FLAT	PH13-8MO
ST3M761	PROTRUDING	PH13-8MO
ST3M807	HEX	ALLOY
ST3M809	100° COUNTERSUNK	PH13-8MO
ST3M810	100° CROWN	PH13-8MO
ST3M811	PROTRUDING	PH13-8MO
ST3M812	100° COUNTERSUNK	PH13-8MO
ST3M813	100° COUNTERSUNK	PH13-8MO
ST3M814	PROTRUDING	PH13-8MO

St. Louis

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
3M39	FLAT HEAD	A-286
3M887	100°	ALLOY, A-286
3M888	100°	ALLOY, A-286
3M893	PAN	ALLOY
3M923	100° TENSION	PH13-8MO
3M924	100° SHEAR	PH13-8MO
3M933	HEX	ALLOY
3M940	CROWNED HEX	ALLOY
3M963	100° SHEAR DOMED	ALLOY
3M1011	100° TENSION	PH13-8MO
3M1012	100° TENSION	PH13-8MO
3M1013	100° SHEAR	PH13-8MO
3M1014	100° SHEAR	PH13-8MO
3M1031	HEX	300 CRES
3M1081	100°	300 CRES
3M1085	HEX	300 CRES
3M1092	HEX	300 CRES

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Miscellaneous OEM Standards

Bell Helicopter

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
20-057	HEX	ALLOY/A-286
20-122	FLAT PAN	A-286/Ti
100-047	PIN, 100° FLUSH	ALLOY
100-048	PIN, PROTRUDING	ALLOY
100-076	PIN, 100° REDUCED	ALLOY
100-085	PIN-STUD, 100° FLUSH	ALLOY
100-090	PIN-STUD, 100° REDUCED	ALLOY
100-145	PIN, PROTRUDING	PH13-8MO
100-146	PIN-STUD, 100° REDUCED	PH13-8MO
100-147	PIN-STUD, PROTRUDING	A-286
120-225	WASHER HEAD	A-286/Ti
120-259	PAN	A-286/Ti
120-261	FLAT FILLISTER	A-286/Ti
120-262	PAN	A-286/Ti
120-264	100° FLUSH	A-286/Ti
120-265	100° FLUSH	A-286/Ti
120-266	100° REDUCED	A-286/Ti
120-267	100° FLUSH	A-286/Ti
120-268	100° FLUSH	A-286
120-269	100° FLUSH	A-286/Ti
120-270	FLAT FILLISTER	A-286/Ti
120-271	130° FLUSH	A-286/Ti
120-276	WASHER HEAD	A-286/Ti

Bombardier Canada

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
B0201070	130° FLUSH	A-286

de Havilland Canada

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
CSP318	100° FLUSH	ALLOY
CSP424	100° COUNTERSUNK	ALLOY

GE Aircraft

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
1749M29	HEX	A-286
1749M85P01	HEX	A-286

Lockheed Martin

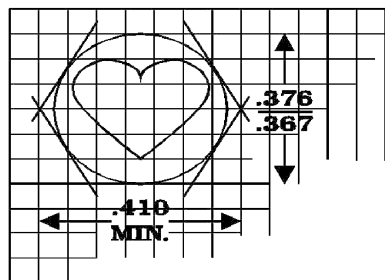
<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
*JSFB03	100° FLUSH	Ti
* -3 and -4 diameters only		
*JSFB12	100° FLUSH	A-286/Ti
*V= -3 and -4 only		
*JSFB15	100° REDUCED	A-286/Ti
*E=-3 to -8; V= -3 and -4 only		
JSFB30	100° FLUSH	A-286
JSFB31	100° FLUSH	A-286
*JSFB34	RECESSED HEX	Ti
* -3 and -4 diameters only		
JSFB42	100° FLUSH	A-286
JSFB43	100° FLUSH	A-286
JSFB44	RECESSED HEX	A-286/17-4PH
JSFB45	100° FLUSH	A-286/17-4PH

Northrop Grumman

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
GS551C	100° FLUSH	ALLOY
GS551P	100° FLUSH	ALLOY

Rockwell International

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
7S15	100° FLUSH	ALLOY
7S34	100° FLUSH	4130/A286
7S36	100° FLUSH	4130
7S39	100° FLUSH REDUCED	ALLOY/A286



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Miscellaneous Standards

AN Standards

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
AN3/AN8	HEX	ALLOY, 431 SS
AN173/AN178	HEX	A-286

MS Standards

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
MS20004-20008	SOCKET HEAD	ALLOY
MS20033-20038	HEX	A-286
MS24694	100°	ALLOY
MS27039	PAN	ALLOY, A286
MS90726	HEX	CARBON STEEL

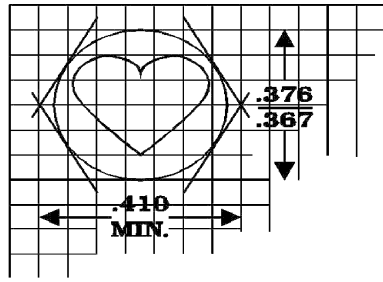
NA Standards

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
NA0035	PAN	ALLOY
NA0036	HEX	ALLOY
NA0038	100°	ALLOY
NA0042	100°	A-286
NA0045	HEX	A-286
NA0046	PAN	A-286
NA0060	100°	ALLOY
NA0070	100°	A-286
NA0089	PAN	ALLOY
NA0091	100°	ALLOY
NA0114/A	HEX	ALLOY
NA0123/A	100° CROWN	ALLOY
NA0124/A	100° CROWN	A-286

Phillips Screw Company

<u>Part Number</u>	<u>Head Style</u>	<u>Material</u>
PSC731	100°	ALLOY
PSC732	100°	A-286
PSC734	FLAT FILLISTER	ALLOY
PSC735	FLAT FILLISTER	A-286
PSC737	100°	ALLOY
PSC738	100°	A-286
PSC740	HEX	ALLOY
PSC741	HEX	A-286
PSC743	100° OVAL	A-286

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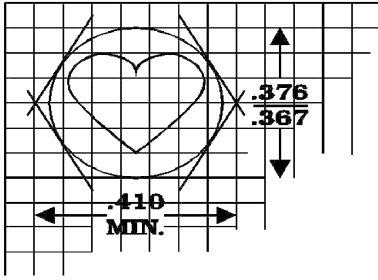
Airbus Approvals

Heartland is pleased to announce that we are approved by Airbus to manufacture the following series:

<u>Part Series</u>	<u>QCS Number</u>
NAS1131-XX to NAS1136-XX	2313
NAS1131E-XX to NAS1134E-XX	2314
NAS1142E-XX	2315
NAS1151-XX to NAS1158-XX	2316
NAS1152E-XX to NAS1158E-XX	2317
NAS1303-XX to NAS1309-XX	2318
NAS1801-(04 to 5)-XX	2319
NAS1802-(04 to 5)-XX	2320
NAS6203-XX to NAS6206-XX	2321
NAS6703-XX to NAS6708-XX	2322
NAS6303-XX to NAS6308-XX	2323
NAS563-XX to NAS565-XX	2324
NAS1790C3-XX to NAS1790C5-XX	2325

Supplier # 202038

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Titanium

HEARTLAND IS THRILLED TO ANNOUNCE THAT WE CAN NOW RUN 832 (.164) THRU 1/4 (.250) DIAMETERS FROM A -3 THROUGH A -20 IN GRIP LENGTH IN Ti 6-4 MATERIAL. AND METRIC DIAMETERS 4MM, 5MM, AND 6MM.

NAS STANDARDS

<u>Part Number</u>	<u>Part Number</u>
NAS1100V08-V4	NAS1101V08-V4
NAS1102V08-V4	NAS1122V-1124V
NAS1132-1134V	NAS1142-1144V
NAS1152-1154V	NAS1162-1164V
NAS1189V08-1189V4	NAS1190V08-1190V4
NAS1218V08-V4 (R)	NAS1221V08-V4 (R)
NAS1578V3-V4	NAS1580V3-V4
NAS1581K3-K4	NAS1582V3-V4
NAS1622V-1624V	NAS1632V-1634V
NAS1790V3-V4	NAS653-654
NAS673-674	NAS1271
NAS4304	NAS4602-4604
NAS4903-4904	NAS5202-5204
NAS5502-5504	NAS5802-5804
NAS6102-6103	NAS6403-6404
NAS6803-6804	NAS7303-7304
NAS7602-7604	NAS7902-7904
NAS8202-8204	NAS8802-8804
NAS9202-9204	NAS9921V08-9921V4

METRICS

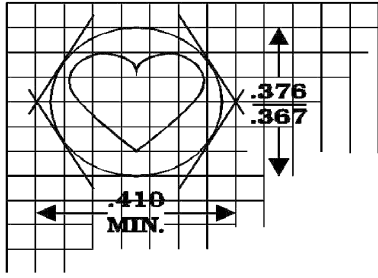
NA0037 NA0039 NA0047 NA0090 NA0092 NA0113 NA0125

SIX LOBES

NAS5310V NAS5311V NAS5312V NAS5313V NAS5314V NAS5315V
 NAS5316V NAS5317V NAS5318V NAS5319V NAS5320V

LOCKHEED

JSFB03V JSFB12V JSFB15V JSFB34V



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Titanium, Continued

BOEING ST. LOUIS

ST3M758T ST3M758V ST3M759V ST3M760T ST3M760V ST3M761V

BOEING ST. LOUIS SIX LOBES

3M1169V 3M1170V

BOEING SIX LOBES

BACS12HT()T BACS12HU()T BACS12HV()T
 BACS12JA()T BACS12HW()T BACS12HY()T
 BACS12JB()T BACS12JC()T BACS12JD()T

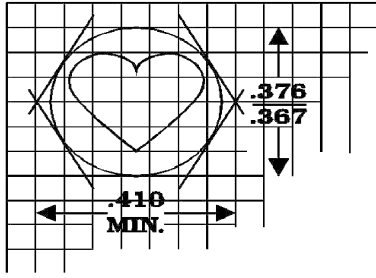
BELL HELICOPTER SIX LOBES

20-122V 120-225V 120-259V 120-261V 120-262V 120-266V
 120-267V 120-264V 120-265V 120-269V 120-270V 120-271V 120-276V

Lockheed Martin Titanium Approvals

Part Number
 NAS1101V04-6
 NAS1101V06-8
 NAS1101V3-3
 NAS1101V3-4
 NAS1101V3-5
 NAS1101V3-6
 NAS1101V3-8
 NAS1101V6-10
 NAS1123V10
 NAS1123V14
 NAS1123V2
 NAS1123V3
 NAS1123V5
 NAS1125V11
 NAS1153V3
 NAS1153C36
 NAS1153V4
 NAS1153V5
 NAS1153V6
 NAS1153V7
 NAS1153V8

Part Number
 NAS1154V22
 NAS1154V3
 NAS1154V4
 NAS1154V7
 NAS1580V3T13
 NAS1580V3T14
 NAS1580V3T17
 NAS6403U11
 NAS6403U2
 NAS6403U3
 NAS6403U6
 NAS6404U10
 NAS6404U11
 NAS6404U3
 NAS6404U4
 NAS6404U5
 NAS6404U6
 NAS6404U7
 NAS6804U3
 NAS6804U4
 NAS6804U5



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Lockheed F-22 Raptor

New Approvals as of August 25, 2009

<u>Part Series</u>	<u>Description</u>	<u>Materials</u>
HP1016	Screw, 100 Flush Red.Head, Six Lobe	A286, Ti
HP1017	Bolt, 100 Flush Head, Six Lobe	Ti
HP1821	Screw, 82 Flat Head, Full Thrd, Six Lobe	A286, Ti
HP1822	Screw, 82 Flat Head, Six Lobe	A286, Ti
HP3310	Bolt, Pan Head, Six Lobe	Ti
HP3311	Bolt, Flat Pan Head, Six Lobe	A286, Ti
HP6188	Bolt, Hex Head	A286, Ti
HP6250	Bolt, Hex Head, Locking Option	Ti
HP6325	Bolt, Shoulder, Pan Head, Six Lobe	Ti
HP6431	Bolt, Hex Head, Offset Shoulder	A286
HP6503	Shoulder Bolt, Tension, Nex Head	A286
HP6588	Bolt-Stud, Hex Head	A286
LK100	Bolt, 100 Flush Head, Six Lobe*	A286, Ti

*Cannot make -.08 diameter