



# *PRECISION AEROSPACE FASTENERS*

**NEW**

Titanium Heat Treat Furnace  
Completes In-house Processing

Full-time Hot Forged Bolt Cell -  
Blanking Programs Welcome



a **CAM**™ Company



Established in 1982, 3V Fasteners is a world class manufacturer of fasteners for aircraft and aerospace applications. A manufacturer of Boeing, AN, AS, MS and NAS certified fasteners, 3V Fasteners experienced workforce supplies most of the world's leading aircraft companies.

### In-house Processes and Capabilities:

- Cold Heading
- Progressive Hot Heading
- Hot Forging (large diameter, exotics, etc.)
- Point/Shave/CNC Machining
- Broaching
- Lightening Hole Drilling
- Grinding
- Cross-hole Drilling \*
- Heat Treating
- Fillet and Thread Rolling
- NDT
- Lab Testing

*\* (H-code Hex Heads) Reduces lead time up to 6 weeks.*

### Materials:

- Titanium
- Inconel 718
- 303 Stainless
- A286 Stainless
- 431 Stainless
- 416 Stainless
- PWA Alloy
- PWA 17-22
- Alloy Steel
- 13-8 MO Stainless
- 17-4 PH Stainless
- Brass
- Aluminum

### Bolt/Screw Head Styles:

- 12 Point
- Flat Fillister
- Spline
- Hex
- Pan
- Mortorq®
- Flush
- Socket Head Cap
- Torx Plus®

### Thread Sizes and Lengths:

Diameters - #2 to 3/4"  
Lengths - 3/16" to 10"

*3V Fasteners is a licensee of Phillips Screw Company (Mortorq®) and Acument Global Technologies (Torx Plus®).*

### Quality:

- ISO9001:2008
- AS9100 Rev. C
- QSLM Approved
- NADCAP Approved





## HOT FORGED MANUFACTURING

- MS, NAS, and BAC Standards
- Bolt diameter capability to 3/4"
- Bolt length capability to 10"
- Additional head styles and configurations
- Reduced manufacturing cycle time
- Fatigue Testing



## HIGH TEMPERATURE TITANIUM HEAT TREAT FURNACE

- Improved lead-time because all titanium fasteners are heat-treated in-house.
- State-of-the-art pre-cleaning unit ensures all parts are extremely clean before entering furnace reducing any opportunity of contamination.







# PART REFERENCE CHARTS FOR SCREWS, BOLTS & SPECIALS



## BOEING PARTS

BACS12CA
BACS12CK
BACS12GX
BACS12H
BACS12HK
BACS12HL
BACS12HM
BACS12HN
BACS12HP
BACB30AB
BACB30BF
BACB30BH

## AN PARTS

AN173C - AN176C
AN3C - AN6C

## AS PARTS

AS3099 - AS3100
AS3102
AS3236 - AS3238
AS3244 - AS3245
AS3250 - AS3251
AS3414 - AS3416
AS3418 - AS3420
AS3530 - AS3531
AS3580

## MS PARTS

MS14181-03 - MS14181-12
MS21250-02 - MS21250-12
MS21277 - MS21282
MS21286 - MS21291
MS9033 - MS9036
MS9060 - MS9063
MS9088 - MS9091
MS9110 - MS9113
MS9146 - MS9149
MS9157 - MS9160
MS9169 - MS9172
MS9177 - MS9178
MS9206 - MS9211
MS9215 - MS9220
MS9488 - MS9494
MS9500 - MS9505
MS9554 - MS9559
MS9563 - MS9568
MS9572 - MS9577
MS9912 - MS9917
MS9921 - MS9926
MS9930 - MS9935
MS9939 - MS9944

## NAS PARTS

NAS1003 - NAS1008	NAS2832 - NAS2838
NAS1096	NAS2842 - NAS2848
NAS1100 - NAS1102	NAS428
NAS1103 - NAS1108	NAS464
NAS1121 - NAS1128	NAS560
NAS1131 - NAS1138	NAS5310 - NAS5321
NAS1141 - NAS1148	NAS653 - NAS655
NAS1151 - NAS1158	NAS563 - NAS568
NAS1161 - NAS1168	NAS673 - NAS675
NAS1171 - NAS1178	NAS6203 - NAS6212
NAS1181 - NAS1188	NAS624 - NAS626
NAS1189 - NAS1191	NAS6303 - NAS6312
NAS1218	NAS6403 - NAS6412
NAS1221	NAS6603 - NAS6612
NAS1223 - NAS1228	NAS6703 - NAS6712
NAS1303 - NAS1308	NAS6803 - NAS6812
NAS1578	NAS7103 - NAS7108
NAS1580	NAS7203 - NAS7208
NAS1581	NAS7303 - NAS7305
NAS1620 - NAS1628	NAS7400 - NAS7408
NAS1630 - NAS1634	NAS7500 - NAS7508
NAS1741	NAS7600 - NAS7605
NAS1742	NAS7700 - NAS7706
NAS1743	NAS7800 - NAS7806
NAS1790	NAS7900 - NAS7905
NAS1801	NAS8000 - NAS8006
NAS1802	NAS8100 - NAS8106
NAS1953 - NAS1958	NAS8200 - NAS8206
NAS1972 - NAS1978	NAS8302 - NAS8304
NAS1992 - NAS1998	NAS8402 - NAS8404
NAS2803 - NAS2808	NAS8602 - NAS8608
NAS2813 - NAS2818	NAS8702U - NAS8708U

## GE PARTS

R1057
R1062
R1440 - R1445
R1451 - R1456
R1460 - R1468
R1470 - R1474
R191
R448
R541 - R548

## BOMBARDIER PARTS

S8435
B0201074
B0201076
B0201081
B0201083
B0201087

## EMBRAER PARTS

PE21086
PE21094
PE21101
PE21114
PE21116

## BELL HELICOPTER PARTS

120-220
120-225
120-276
120-278

## LOCKHEED PARTS

JSFB44
JSFB45

## WOODWARD GOVERNOR

1106
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