



Precision Components for
Aerospace Applications

www.ankitgroup.com

Reaching For The Skies

With a 40-year legacy, the Ankit Group is a leader in the aerospace industry, delivering cutting-edge technology and innovative products. Rooted in a tradition of excellence, we contribute to the advancement of aerospace, space, and defense sectors worldwide.

Founded on a commitment to quality and precision, we specialize in mission-critical components for aerospace applications, driving performance in the most demanding environments. Over four decades, our expertise in precision engineering and technology has positioned us at the forefront of the industry.

CORE CAPABILITIES :

Precision Manufacturing: Utilizing advanced machinery and processes to deliver components with unmatched accuracy and reliability.

Advanced Materials Engineering :

Expertise in working with a variety of materials to meet aerospace requirements.

Collaborative Engineering :

Partnering with customers to develop customized, cost-efficient solutions.

Ankit Group operates through specialized subsidiaries, each contributing to our diverse capabilities:

Ankit Aerospace focuses on high-precision machined components and fluid fittings for the aerospace industry, meeting the rigorous demands of global leaders.

Ankit Fasteners manufactures high-performance fastening systems, ensuring the safety and integrity of aerospace applications.

True innovation drives our investments in R&D, advanced technologies, and workforce development. At the Ankit Group, we push the boundaries of what's possible, empowering our customers and solidifying our position as a key player in the global aerospace ecosystem.

Certifications



- AS 9100
- AS 9120
- ISO 14001
- ISO 27001
- ISO 45001



Certificate of Accreditation

- Calibration
- Mechanical Testing
- Fluid systems



Products Certified by :



नागर विमानन महानिदेशालय
DIRECTORATE GENERAL OF
CIVIL AVIATION

Capabilities & Infrastructure

Leveraging cutting-edge machinery and robust processes to deliver components with unparalleled accuracy and reliability, not just a wide spectrum of Fasteners & Components, but a whole range of materials as well, to meet the rigorous demands of aerospace applications.

Material Expertise :

- Nickel alloys
- Cobalt alloys
- Titanium alloys
- Stainless Steel
- Alloy Steels
- Aluminum
- PH Steels

Manufacturing Technology :

- Cold forging
- Hot forging
- Thread rolling
- Grinding
- EDM
- Non conventional Machining
- 5 Axis Machining
- Multi Spindle Machining
- Swiss type Lathe

Collaborative Engineering :

Partnering with customers to co-develop customized solutions that meet specific requirements, ensuring optimal performance and cost-efficiency.



Hot Forging

Special Process Expertise



Vacuum Furnace

Heat Treatment

Heat Treatment is extremely critical for aerospace products.

To ensure best of quality and repeatability all heat treatment is done in-house in:

- Atmosphere furnace
- Vacuum furnace
- Argon atmosphere for Titanium
- Cryo treatment up to -80°C for special alloys

Surface coatings

Surface coatings and treatment provide the required protection and lubrication for fasteners components.

In-house surface treatment facilities include:

- Cadmium plating
- Aluminum anodizing
- Zinc phosphating
- Dry film lubricant
- Zinc Nickel plating
- Aluminum IVD
- Passivation
- Titanium anodizing
- Silver plating
- Zinc plating
- Nickel Cadmium plating
- Hi Kote™

Non-Destructive Testing

- Fluorescent dye penetrant
- Magnetic particle inspection
- Ultrasonic Testing
- Eddy current inspection



CMM

Quality Testing Facility

State-of-the-art testing facility helps deliver aerospace quality products.

- GAS content testing
- Fatigue testing
- UTM testing
- Hardness testing
- Micro structure testing
- Macro structure testing
- Elevated temperature stress rupture



Fatigue Testing

Tee & Elbows

- Material** : Alloy Steel, Stainless Steel, Inconel, Titanium, Aluminium
- Size** : up to 6"
- Surface Treatment** : Cadmium, Silver, Passivated, Anodised



Couplings

- Material** : Alloy Steel, Stainless Steel, Inconel, Titanium, Aluminium
- Size** : up to 6" dia
- Surface Treatment** : Cadmium Plating, Silver Plating, Passivation, Anodised



Couplings Nuts

- Material** : Alloy Steel, Stainless Steel, Inconel, Titanium, Aluminium
- Size** : upto 6" dia
- Surface Treatment** : Passivated, Silver Plating, Dry Film Lubricant, Anodised



Qualified Product Listing

- Material** : Alloy Steel, Stainless Steel, Inconel, Titanium, Aluminium
- Size** : up to 6"
- Surface Treatment** : Cadmium, Passivated, Anodised



Bushings & Flanges

- Material** : Alloy Steel, Stainless Steel, Inconel, Copper Alloys
- Size** : upto 6"
- Surface Treatment** : Cadmium, Silver, Passivated, Anodised



Simple Machined Parts

Clevis, Spacers, Studs, Washer, Shells, Disk

- Material** : Alloy Steel, Stainless Steel, Inconel, Titanium, Copper, Alloys
- Size** : upto 100mm dia, length 300mm



Complex Machined Parts

- Material** : Alloy, Stainless Steel, Inconel, Titanium
- Size** : Machine part envelop of 700mm x 500mm x 500mm
5 axis machining with CAM programming



Externally Threaded Fasteners

Socket Head Cap Bolts
and Screws



Bi-hexagonal Bolts
and Screws



Spline Head



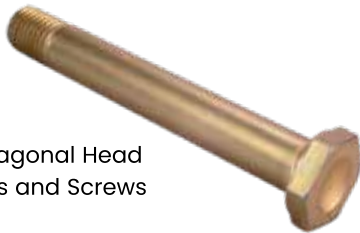
HI-LOK™



Material:

Alloy Steel, PH Steel,
Stainless Steel,
Nickel Alloy,
Cobalt Alloy,
Aluminium Alloy

Hexagonal Head
Bolts and Screws



HI-LOK™



Size:
0.8 mm
up to
50 mm
Diameter



Surface Treatment:

Cadmium, Zinc,
Zinc-Nickel,
Nickel-Cadmium, Silver,
Passivation, Anodise,
Aluminium IVD,
Dry film Lubricant

Countersunk Bolt



Internally Threaded Fasteners and Special Fasteners

Solid Inserts



Titanium Nuts



BI-Hexagonal Nuts



Material:

Alloy Steel, PH Steel,
Stainless Steel,
Nickel Alloy,
Cobalt Alloy,
Aluminium Alloy

Hex Flange



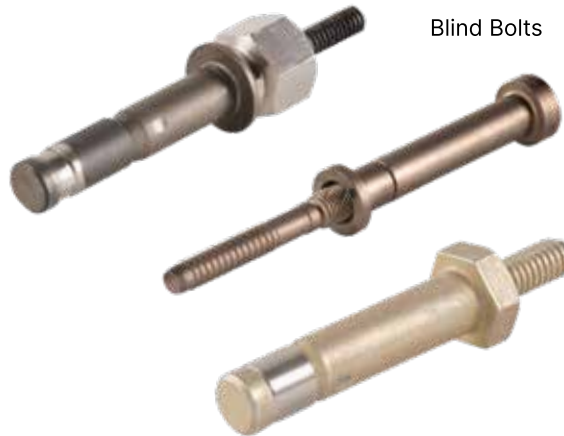
Hex Nuts



Barrel Nuts



Blind Bolts



Size:

2mm
up to
50mm
Diameter

Anchor Nuts



Castellated Nuts



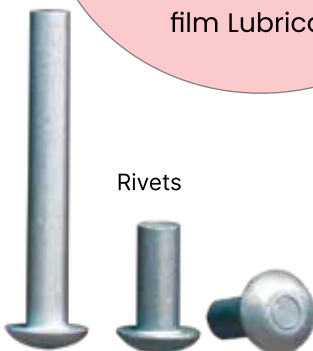
Nyloc Nuts



Surface Treatment:

Cadmium, Zinc,
Zinc-Nickel,
Nickel-Cadmium, Silver,
Passivation, Anodise,
Aluminium IVD, Dry
film Lubricant

Rivets

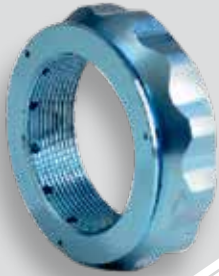


Washers



Threaded Studs





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