

MANUFACTURERS OF THE  
INDUSTRY ACCREDITED

**KATO**<sup>®</sup>  
**CoilThread**<sup>®</sup>



ADVANTECH

## COMPONENTS FOR THE AEROSPACE INDUSTRY

Part of the Advanex Global Network



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# ABOUT US



At Advanex we specialise in the design and manufacture of components for the aerospace industry.

As part of the global Advanex Incorporation group of companies, we have access to a global infrastructure covering over 23 operations worldwide.

Our components and manufacturing processes help our customers to improve performance and efficiency.

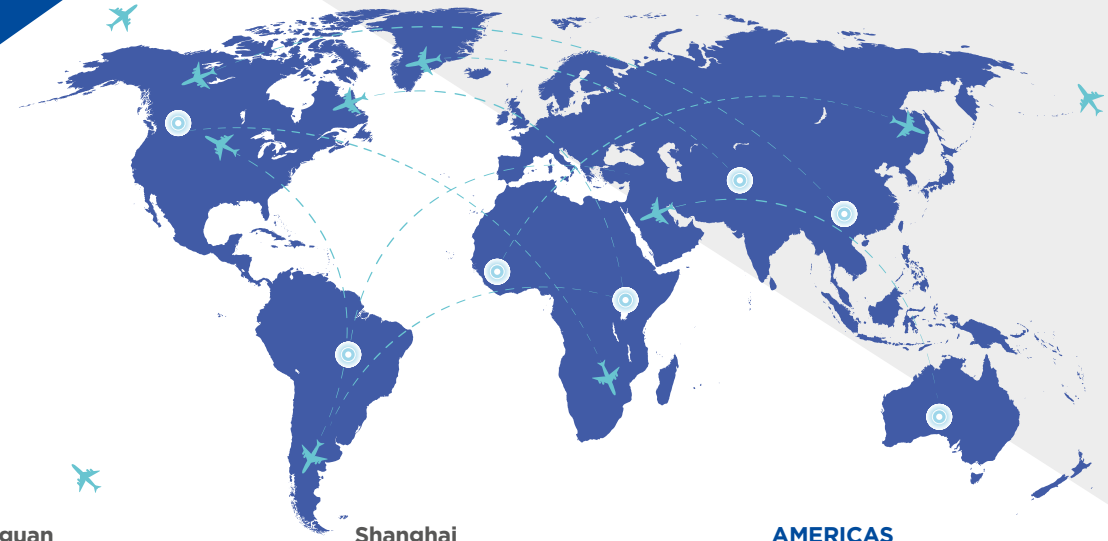
# CORE VALUES



**Advanex has 7 core values** that are shared across the globe. Our core values are integral to our business and help us to exceed the expectations of our customers, suppliers and team members. They are our working style and sense of value. It is important for us to keep them at the front of our mind and review regularly.

- Be Unique**  
We don't mimic others. Uniqueness is the value that sets us apart. If it's not unique, we cannot succeed.
- Embrace & Create Change**  
We embrace change. Through facing our fear of change we are able to learn from it and move on. Where there is no precedent we initiate and innovate.
- Kiss - Keep It Simple & Speedy**  
We keep it simple. We do not unnecessarily overcomplicate. Speed keeps us ahead.
- Act With Your Own Initiative**  
'I was told to do so' or 'I had to do it' are reactive. Through feeling empowered to do something under our own steam we move our ideas forward.
- Focus On Your Own Responsibility**  
We take pride in our own work and perform it as we should and beyond.
- Put Your Heart Into It**  
Our contribution comes from the heart. We are passionate about what we do.
- Enjoy Your Work**  
Our work is about more than just our working day. The enjoyment of our work is seen in the pride we have in our workplace and spread beyond our working day.

# GROUP OF COMPANIES



## OUR NETWORK SPANS THE GLOBE

### JAPAN

#### Tokyo

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Tabata, Kita-ku, Tokyo 114-8581,  
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#### Hong Kong

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### Thailand

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### Shanghai

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199 North Ri Ying Road,  
WaiGaoQiao Free Trade Zone,  
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### Changzhou

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# KATO<sup>®</sup> CoilThread<sup>®</sup>

## DISTRIBUTION NETWORK



### UNITED KINGDOM

**ASM FASTENERS**  
W: [asmfasteners.com](http://asmfasteners.com)

### UNITED STATES

**KATO FASTENING SYSTEMS**  
W: [katonet.com](http://katonet.com)

### FRANCE

**EPCI**  
W: [epciengineering.com](http://epciengineering.com)

### ITALY

**TECNIMETAL**  
W: [tecnimetal-tm.com](http://tecnimetal-tm.com)

### BELGIUM

**MEFACO BVBA**  
W: [mefaco.be](http://mefaco.be)

### NETHERLANDS

**JEVEKA BV**  
W: [jeveka.com](http://jeveka.com)

### TURKEY

**AKIFSAN**  
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### ISRAEL

**DAR TECHNOLOGIES**  
W: [dartech.co.il](http://dartech.co.il)  
**DUSAR ENG. & SUPPLY**  
W: [dusar.co.il](http://dusar.co.il)

### CHINA

**ADVANEX HK**  
W: [advanex.com.sg](http://advanex.com.sg)



# EXPERTISE

**The success of every product is driven by design and development. Advanex employs a team of dedicated engineers to ensure the reliability and continued performance of every part we manufacture.**

## CUSTOMER SUPPORT

Whether a new or existing product we provide full technical support with design and project management.

This ensures an effective and efficient design that fulfils your requirements. This also guarantees that the design is manufactured by the most economical method to keep costs to a minimum.

We are also flexible in our approach with our clients. If you feel it would be more beneficial for us to see your product and discuss “face to face” then we are happy to visit you as required.

At Advanex we understand the competitive nature of modern business and so offer a fully confidential service to meet whatever demands you have. To complement our service our logistics centre offers vendor management and ‘Just In Time’ deliveries to suit your requirements.



# QUALITY & CAPABILITY



## PLACING YOUR REQUIREMENTS AT THE HEART OF EVERYTHING WE DO

At Advanex we use our years of experience to produce quality products for our customers whilst utilising skilled and dedicated staff to produce innovative solutions, project development and design optimisation.

Bespoke machinery, tools and skill sets are essential to our manufacturing processes to allow us to offer you accurate, reliable and effective products to suit your needs.

Continually improving our people and processes, Advanex can provide valuable engineering assistance whilst offering value for money.

With Advanex you can be assured that first class customer service and production capabilities comes as standard.

Whatever your requirements, we work closely with our clients throughout the design, development and manufacturing process.

We have recently achieved AS9100 approval - the world's most recognised quality management standard in the aerospace industry.

The AS9100 approval gives our customers reassurance that we are passionate about maintaining regulatory compliance and have a strong focus on continuous improvement.



# KATO® CoilThread®



## **KATO® CoilThread®**

Advanex are proud manufacturers of the industry accredited KATO® CoilThread®.

KATO® CoilThread® is the world's leading wire thread insert that creates, protects, reinforces and repairs screw threads.

The complete range of standard inserts is available in Free Running form in both Metric and Unified sizes, ranging from



M2.5 to M12 in Metric, and 2-56 to ½-13 in Unified. All sizes can be supplied in 1D, 1.5D and 2D lengths. Longer 2.5D & 3D lengths available upon request.

## **Tangless® & Tanged**

The Tangless version of KATO® CoilThread® inserts perform like Tanged inserts but do not need tang break-off and retrieval. They are quickly and easily installed, adjusted or removed offering substantial cost savings.



## **Materials**

Our high quality inserts are produced from the best quality materials which include:

- **Aluminium**
- **Stainless steel**
- **Inconel**
- **Phosphor bronze**
- **Nitronic 60®**
- **Nimonic 90®**
- **Titanium**







### Features & Benefits

CoilThread® inserts are based on a continuous helically-coiled open pitch design using a diamond shaped wire.

The diamond-shaped wire design allows the inserts to engage the threads in the parent material and at the same time accept a male fastener. Thus, they do not need a thick wall structure to support the internal and external threads. For the same

nominal thread size, the parent material thickness requirement is less when compared with thin wall or solid inserts.

The resilient design characteristics of CoilThread® inserts allow each coil to adjust independently for maximum surface contact with the parent material. As a result, loads are distributed more evenly. Stress and fatigue concentrations are reduced to maximise thread strength, thus, increasing

the reliability and life of the fastening system as well as keeping it simple to use.

### Free of Foreign Object Debris

No tang to break off, retrieve, lose or count. The Tangless® design saves time and reduces risk of foreign objects remaining within a critical application.

### Time Saving

Bi-directional design eliminates the need to orientate the inserts for installation significantly reducing installation and inspection time. Strip Feed packaging also speeds installation time.

### Reusable

The quick easy removal means no damaged threads and this non-destructive removal prevents damage to expensive machined parts or castings.

# AIRFRAME

Our designers and engineers are available to support the development and manufacture of a product from concept right through to mass production. We have a proven track record with some of the worlds' largest aerospace companies. Our components can be used in a range of applications relating to aircraft airframes which include:

- **Cockpit instrumentation panels, side trims, centre consoles**
- **Fuselage**
- **Wings**
- **Tail fins,**
- **Horizontal stabilizers**
- **Actuators**
- **Pump housing**
- **Hydraulic pumps**

**COILTHREAD, WIRE FORMS, MICRO SPRINGS,  
HINGES, COIL SPRINGS**



# INTERIORS



Our components are renowned for their high quality and reliability. We understand the typical challenges that our customers face and have expert skills to drive design, development projects. We have specialised skills and knowledge regarding the design and manufacturing of aircraft interior components such as:

- **Aircraft seating - first, business, premium and economy classes**
- **Cockpit seating**
- **Galleys**
- **Cockpit doors**
- **Toilet components**
- **Overhead luggage bins**

INSERT MOULDING, MICRO SPRINGS,  
HINGES, COILTHREAD

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# POWER PLANT

A large aircraft engine is shown in a close-up view, focusing on the fan section. The engine is silver and blue, with a prominent green ring around the fan. The fan blades are visible, and the engine is mounted on a structure. The background is a dark, industrial setting.

Our teams understand that our customers in the aerospace industry have a variety of needs. We have the experience and track record to work with our customers to overcome industry and product challenges. Our **AS9100 approval** gives our customers the reassurance that we are firmly dedicated to both continuous improvement and maintaining regulatory compliance. With aircraft power plants, our components have a variety of applications which include:

- **Engine front, mid and rear section casings**
- **ECM casings**
- **Engine auxiliary power units (PSU's)**

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**COMPRESSION SPRINGS, WIRE FORMS, TORSION SPRINGS, DEEP DRAWN,  
MICRO SPRINGS, PRESSINGS, EXTENSION/TENSION SPRINGS.**

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# LANDING GEAR

Our engineers and designers have many years of experience combining technical and commercial understanding, to meet the high demands for the aerospace industry. We work in close collaboration with our customers to ensure the best possible solution. We offer a range of components for landing gear applications that include:

- **Wheels**
- **Brakes**
- **Landing struts**

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**COMPRESSION SPRINGS, WIRE FORMS, TORSION SPRINGS, DEEP DRAWN,  
MICRO SPRINGS, PRESSINGS, EXTENSION/TENSION SPRINGS.**

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ADVANEX

## COMPONENTS FOR THE AEROSPACE INDUSTRY

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