novatech

COMPOSITES

Composite Solutions For Every Scale

About us

NOVATECH COMPOSITES, Novatech Composites, established in 2015, is an organization advancing steadily towards becoming a leader in composite and radome production for the aviation and defense industries. Our commitment to quality, attention to detail, and customer satisfaction make us a reliable partner for custom manufacturing solutions

As of 2024, we have expanded our operations to serve the international defense industry globally.

OUR CAPABILITIES
We do not adhere to traditional production timelines. Instead, as tactical manufacturers, we succeed. By integrating the efforts of numerous subcontractors with our own facility and expertise, we are able to deliver on production needs that would typically take months within weeks.

2.000 m²
Factory Area

+100.000
Component Manufacturing

72 saat
Delivery Time

3D
Printing and CNC Machining

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Novatech Composites is a leading company in manufacturing composites and radomes for the aerospace and defense industries. Our unwavering commitment to quality, attention to detail, and customer satisfaction makes us a reliable partner for bespoke manufacturing solutions.

We are expanding our global operations year by year.

2015:

Our journey started in a modest shop in Ankara, Turkey in 2015.

2023:

In the second quarter of 2023, we proudly established our U.S. facility, marking a significant milestone in our global expansion.

2023:

Our services were exclusively offered as a B2G (business-togovernment) contractor in Turkey

2024:

We are expanding our reach to start accepting business customers globally

Hand Layup

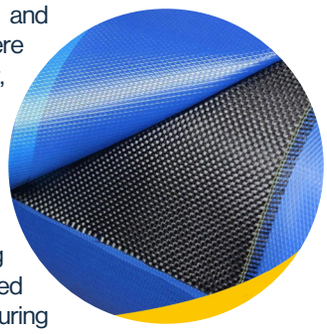
Hand layup of composites is a common method used in the manufacture of composite parts and is frequently used in industries such as aviation, automotive, and marine.

This method is our preferred choice especially for producing very large parts that require high strength and parts that are desired to have one smooth face

Our company uses Composite, MDF, ABS, XPS materials to produce molds in hand layup processes.

Prepreg

Prepreg stands for pre-impregnated and refers to composite materials where reinforcement fibers (like carbon fiber, glass fiber, or aramid) are pre-impregnated with a precisely meaured amount of resin, typically epoxy, and then partially cured. This method offers various advan tages over traditional hand layup, including improved resin distribution, reduced waste, and better control over the curing process.



Vacuum Infusion

Also known as resin infusion or vacuum bag infusion, vacuum infusion is a method used to produce composite parts by infusing resin under vacuum pressure into dry reinforcement materials.

This technique provides precise control over resin distribution, minimizes voids, and ensures consistent material properties throughout the part.

Vacuum Bagging

Vacuum bagging is a common method in composite manufacturing used to combine and harden laminate materials like fiberglass, carbon fiber, or Kevlar with resin.

This technique helps remove air and excess resin from the laminate, achieving parts with better mechanical properties and surface quality.

Overall, vacuum bagging offers numerous advantages from enhanced structural integrity and surface quality to cost-effectiveness and versatility, making it a popular choice for producing high-quality composite components.

Radomes

A radome is a protective cover used to enclose and **protect a radar antenna**. The primary purpose of a radome is to protect the radar antenna from environmental factors, including weather and wind, **while still allowing radar signals to pass through**.

Composite Radomes

We produce glass fiber radomes tailored to your specifications and application needs through methods including infusion, infusion-assisted hand layup, prepreg, and hand layup.

Prototype Radomes

We can provide radomes for test applications, producing moldless radomes by combining 3D printing and CNC machining.

Thermoform Radomes

Produced from High Impact Polystyrene (HIPS) material. Cut to your specifications with CNC and colored according to your preference.

Mock-Up Production

We produce mock-ups in any size and quantity, including 1:1 scale, without constraints on dimensions.

We can produce the products in two different ways according to the production method: with molds and without molds.

Moldless Production

Design Rework for Production
3D Printing
CNC Machining
Surface Treatment
Primer
Inspection-Quality Control
Detailed Surface Treatment
2nd Primer
Paint

Mold Production

Design Rework for Production
Master model production
Mold Box Design
Mold Production
Trial Casting Procedures
Resin Production
Surface Treatment
Primer
Paint

Delivered
Projects

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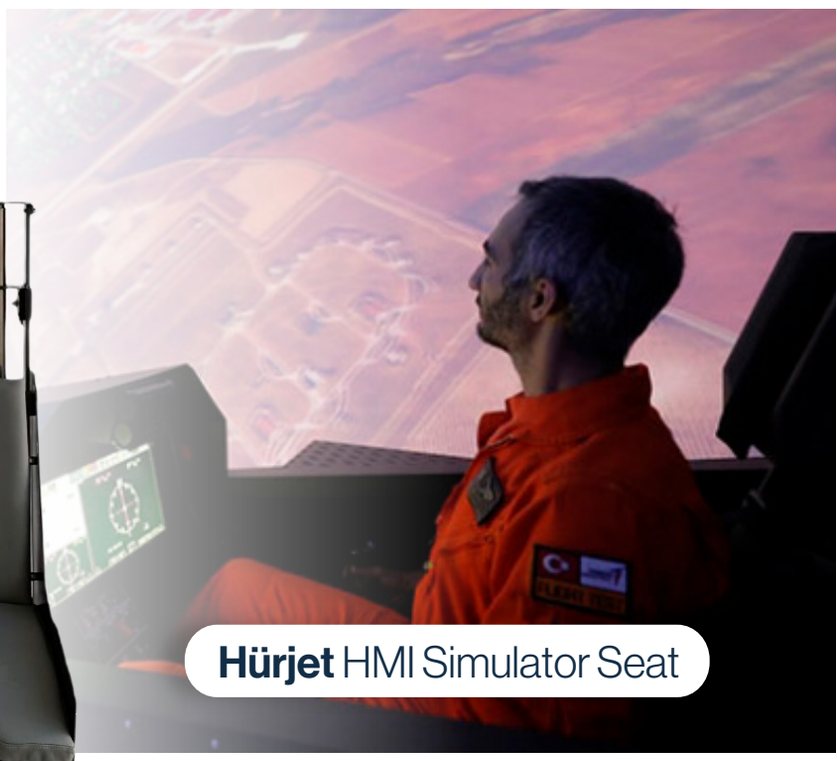
Gökbey Gökbey Helicopter IWT



Hürjet HMI Simulator Seat

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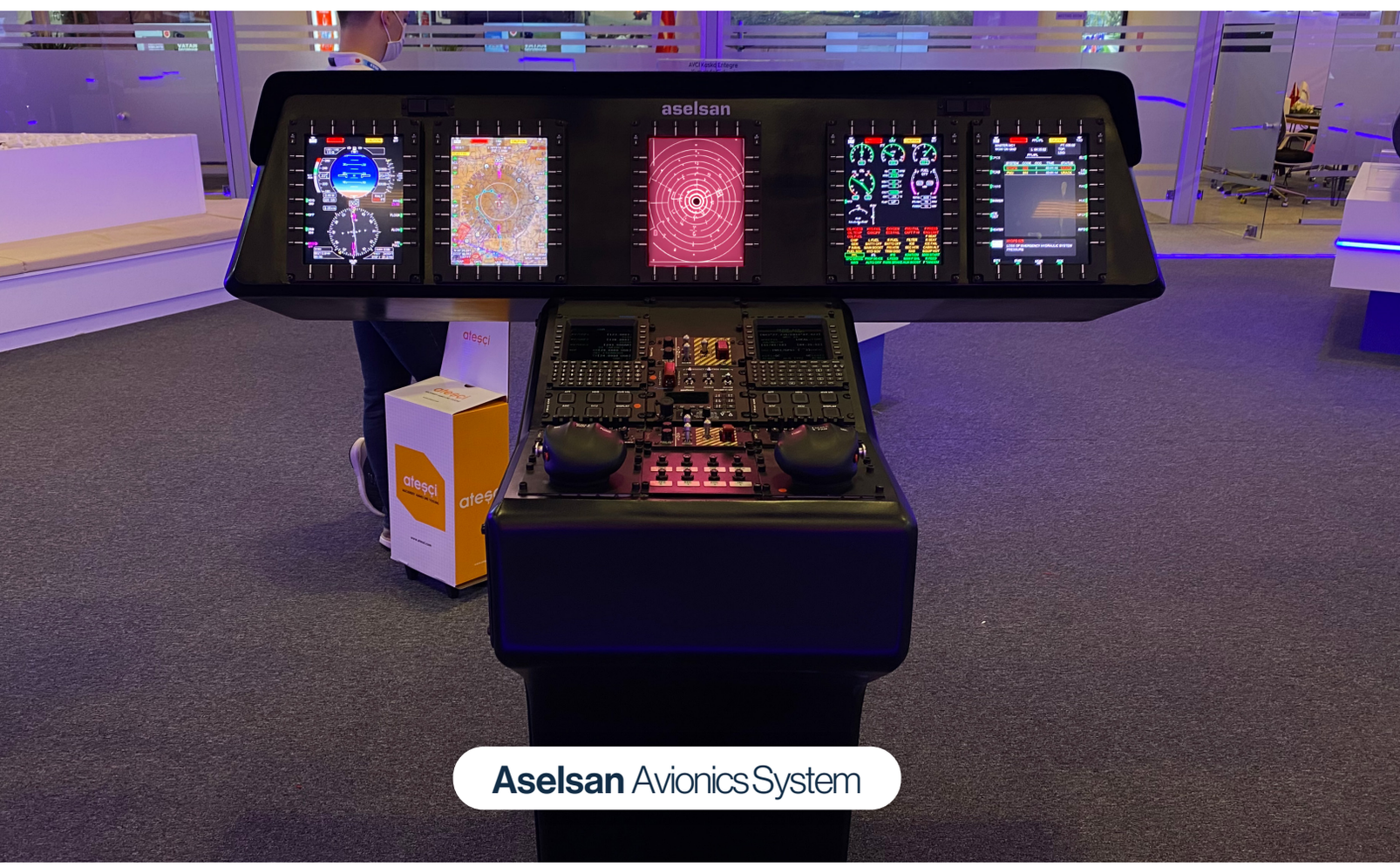
Hürkuş Composite Duck Parts

Weight-Matched Mock-up

Atak Helicopter 20 Millimeter 3-Barreled Nose Gun Mock-Up.



Aselsan Avionics System

References

TÜRKHAVACILIK UZAYSANAYİİ

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HAVELSAN

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TÜBİTAK

MKE

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