TAT Technologies

PASSIONATE AND DEDICATED TO YOUR NEEDS

DEDICATED TAT PARTNER

TAT Technologies Group:

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TAT Technologies is a strategic global partner to leading players in the aerospace industry. TAT Technologies specializes in innovative OEM and MRO solutions for the commercial and defense markets.
Established in 1969, TAT provides design, development, manufacturing and services for a large variety of products. We have aligned all our divisions into 2 Strategic Business units:

- Thermal Management Solutions
- Power & Actuation Services

Our experience, flexibility and commitment to meet our customer's needs and requirements, has positioned us as a trusted partner among some of the world's leading OEMs, airlines, maintenance organizations, air forces and defense organizations.

50 YEARS
Experience – Commitment – Partnership

“Challenge us with your needs”

IGAL ZAMIR

President and CEO, TAT Technologies Group

Dedicated to our customers’ business needs, we base our success on firm partnerships, professionalism, fast turnaround time and proven ability to deliver. Since the establishment of our company, TAT’s reputation as a trusted, innovative technology expert has steadily grown, as we remain at the cutting edge of our industry, maintaining long-term relationships with the world’s leading aerospace giants. As we strive for innovation and excellence, we are always apt for the next professional challenge.

TAT Technologies global operations are currently spread over five sites:

Thermal Management Solution

TAT Limco

Tulsa, Oklahoma, USA.

- A worldwide leader in thermal component maintenance for the aerospace industry.
- Supporting its wide global customer base, the facility repairs, overhauls, including core replacement of heat transfer equipment for ECS and bleed air systems, engine and APU oil coolers, as well as ozone converters for both military and commercial aircraft applications.TAT Limco specializes in design, development and manufacturing of heat transfer equipment for aerospace, ground and naval applications.

TAT Gedera

Gedera, Israel.

- Design, development and manufacturing of heat exchangers, cooling systems, cold plates and vapor-cycle air conditioning systems. Manufacturing and reconstructing a variety of flow accessories including turbine power units, valves, fuel pumps and more.

- Design and manufacturing of customized reinforced, robust air conditioning systems for applications such as communication shelters, armored vehicles and airborne systems.

TAT Engineering

Novosibirsk, Russia.

TAT group's Joint Venture with S7 Technics. TAT Engineering is an EASA repair station in the CIS region, providing repairs, overhaul and core replacement services for various thermal components to support the needs of the CIS based airlines.

Power & Actuation operators

TAT Piedmont

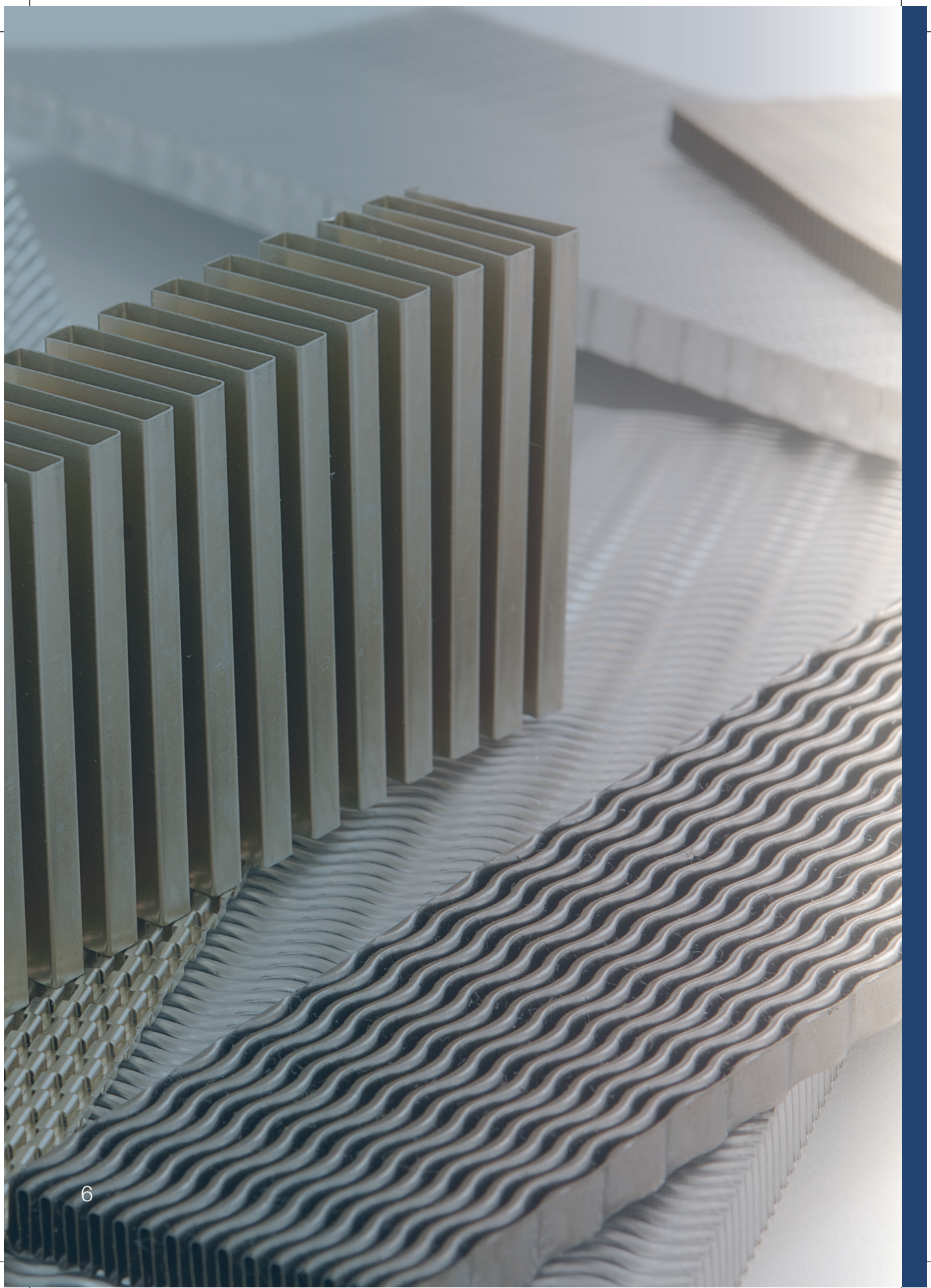
Greensboro, North Carolina, USA.

A leading maintenance, repair and overhaul provider for APUs, Landing Gear and LRUs including Pneumatic, Fuel, Hydraulic and Electro-mechanical components. Piedmont Aviation also specializes in Machining, Grinding and Plating (MPG) for aerospace applications, and is an FAA and EASA part 145 repair station with over 60 years of experience.

TAT Turbochrome

Qiryat-Gat, Israel.

Turbochrome has been doing business since 1969 .A global maintenance, repair and overhaul provider supporting the Commercial and Military Aviation of Jet Engine Components as well as Ground Turbines (IGT).
Turbochrome is FAA and EASA approved repair station and AS9100C, NADCAP certified.

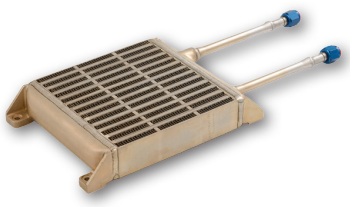


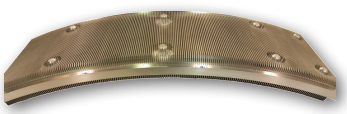
THERMAL MANAGEMENT

HEAT TRANSFER SOLUTIONS

TAT Technologies provides a comprehensive solution, including design, development, manufacturing and MRO services for heat exchangers for both commercial and military applications. Our extensive array of OEM solutions include high temperature resistant pre-coolers, aluminum fuel submerged hydraulic heat exchangers, oil coolers, ECS heat exchangers and vapor cycle evaporators/condensers.

Our MRO services consist of cleaning, repair, overhaul and core replacement, all of which are performed at our state-of-the-art MRO facilities, supervised by expert engineers with OEM design skills and experience.





TAT HEAT EXCHANGERS ARE INSTALLED ON THE FOLLOWING AIRCRAFT (A PARTIAL LIST):

Commercial OEM

Airbus A340-500/600

Airbus A350

Boeing 737, 767,777

Bombardier CRJ-100, CRJ-200, CRJ-700, CRJ-900

Embraer 175, 190, 195

Cessna (business jet models)

Pilatus PC-12 & PC-21

Sukhoi Superjet 100

Honda Jet

Gulfstream G500, G650

Military OEM

Boeing F-15 E/I/K/S

Boeing AH-64

Boeing CH-47

Boeing F-18

Bell AH-1, UH-1

Boeing KC-46A

Sikorsky UH-60

Lockheed Martin F-16

Lockheed Martin C-130

IAI Kfir

Commercial MRO

Boeing 737, 747, 757, 767, 777, 787

Airbus A319, A320, A321, A330, A340

Embraer 110, 120, 170, 190

ATR 42, 72

SAAB 340, 2000

Fokker 50, 100

Bombardier 100, 200, 700, 900

Cessna (business jet models)

Military MRO

Boeing F-15

Lockheed Martin F-16

Boeing F-18

Lockheed Martin C-130

Boeing AH-64

Boeing KC-135

Boeing E-3

Northrop F-5

ELECTRONICS COOLING SOLUTIONS

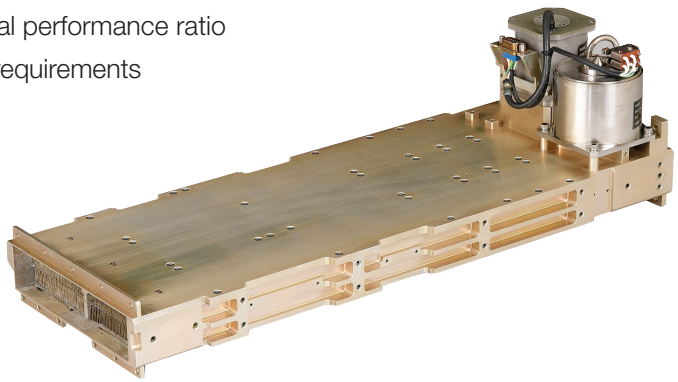
TAT Technologies specializes in development and manufacturing of power electronics cooling solutions for commercial and military applications including:

- Airborne / Land / Marine radars
- Electronic warfare systems
- RF generators / Transmitters

Our advanced self-contained, integrated cooling systems are developed, manufactured and assembled entirely at our facilities, and draw on competencies in our portfolio, comprising parts such as heat exchangers, pumps, cold plates and flow accessories.

We deliver customized solutions that meet our customers' demanding needs, such as:

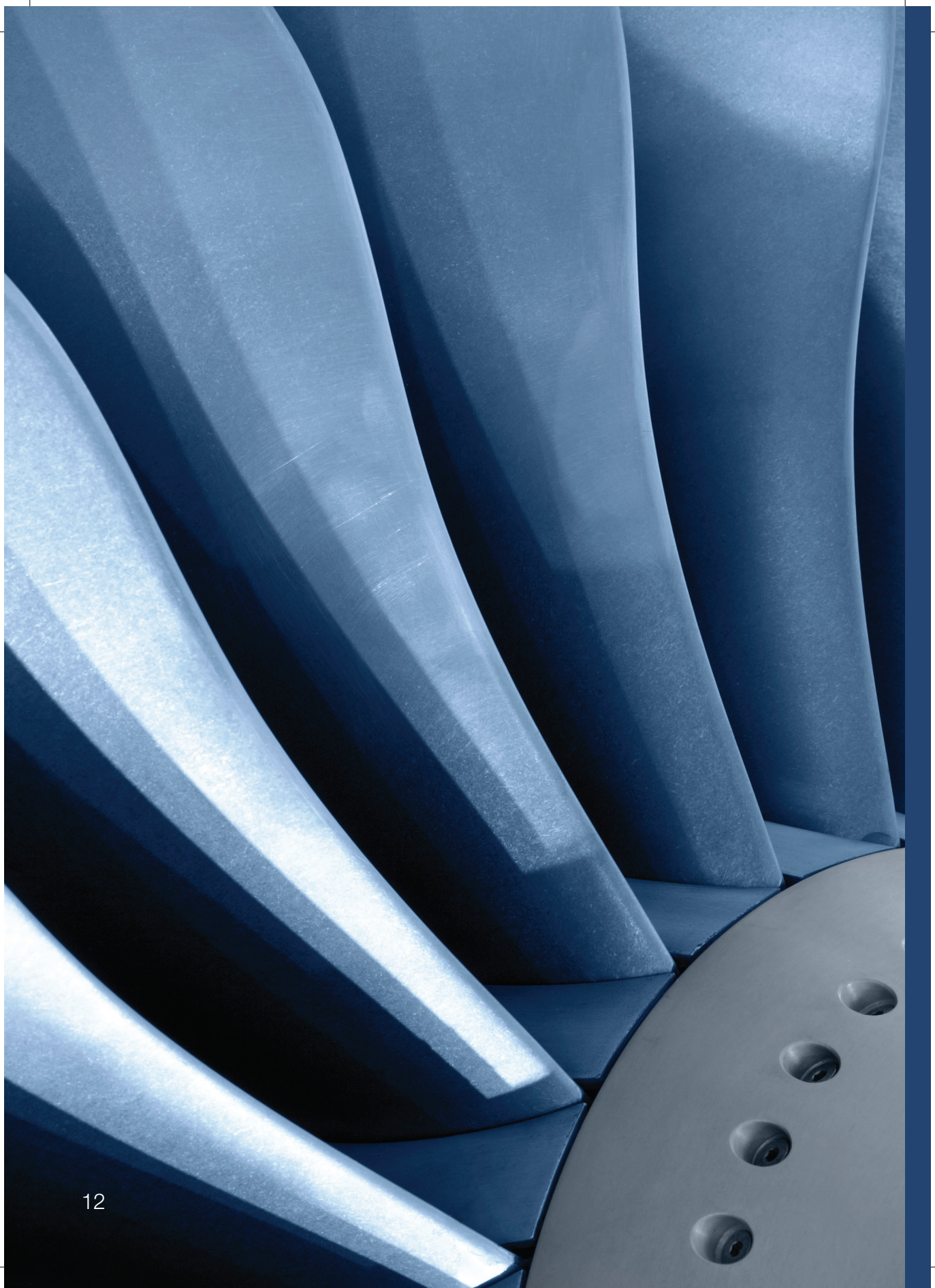
- Optimal weight / Thermal performance ratio
- Adaptability to specific requirements
- High reliability



ENVIRONMENTAL CONTROL SYSTEMS

TAT Technologies has gained its reputation in the field of Environmental Control Systems (ECS) for defence applications. Our qualified, maintainable and affordable systems have performed successfully under extremely harsh and demanding conditions worldwide.

Our robust and customized line of ECS are designed to applicable military standards, offering easy installation, integration, and maintenance. TAT's ECS products are installed worldwide at mobile facilities such as field hospitals, Command & Control, communication, SatComm mobile stations and tents.



POWER & ACTUATION

FLOW CONTROL ACCESSORIES

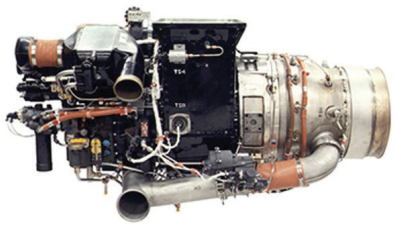
TAT Technologies has nearly 50 years of experience in development of fluid controls and accessories for defense and commercial platforms. We offer built-to-spec, built-to-print and MRO services.

Our products and services cover a broad range of requirements for engine and airframe applications. These include power systems, flow control accessories, air control valves, fuel systems, pneumatic systems, solenoids, sensors, emergency power units, auxiliary power systems and engines.

We are committed to providing reliable, easy to operate and maintain products that meet required quality standards while offering great value.

AUXILIARY POWER UNITS

Providing solutions for APU customers in both commercial and defense aviation sectors, our MRO services offer a wide range of capabilities, combining expertise, advanced technology and quality customer service. As an authorized repair station for companies such as Honeywell and Hamilton Sundstrand (UTC Aerospace Systems) our MRO services meet the highest global industry standards.



LANDING GEAR

With TAT Technologies' team of experts, your landing gear is in safe hands. We have vast experience working with a variety of landing gear systems from small business jets all the way up to heavy freighters. We control cost with in-house machining and plating capabilities so we can get the job done right the first time and within your budget.

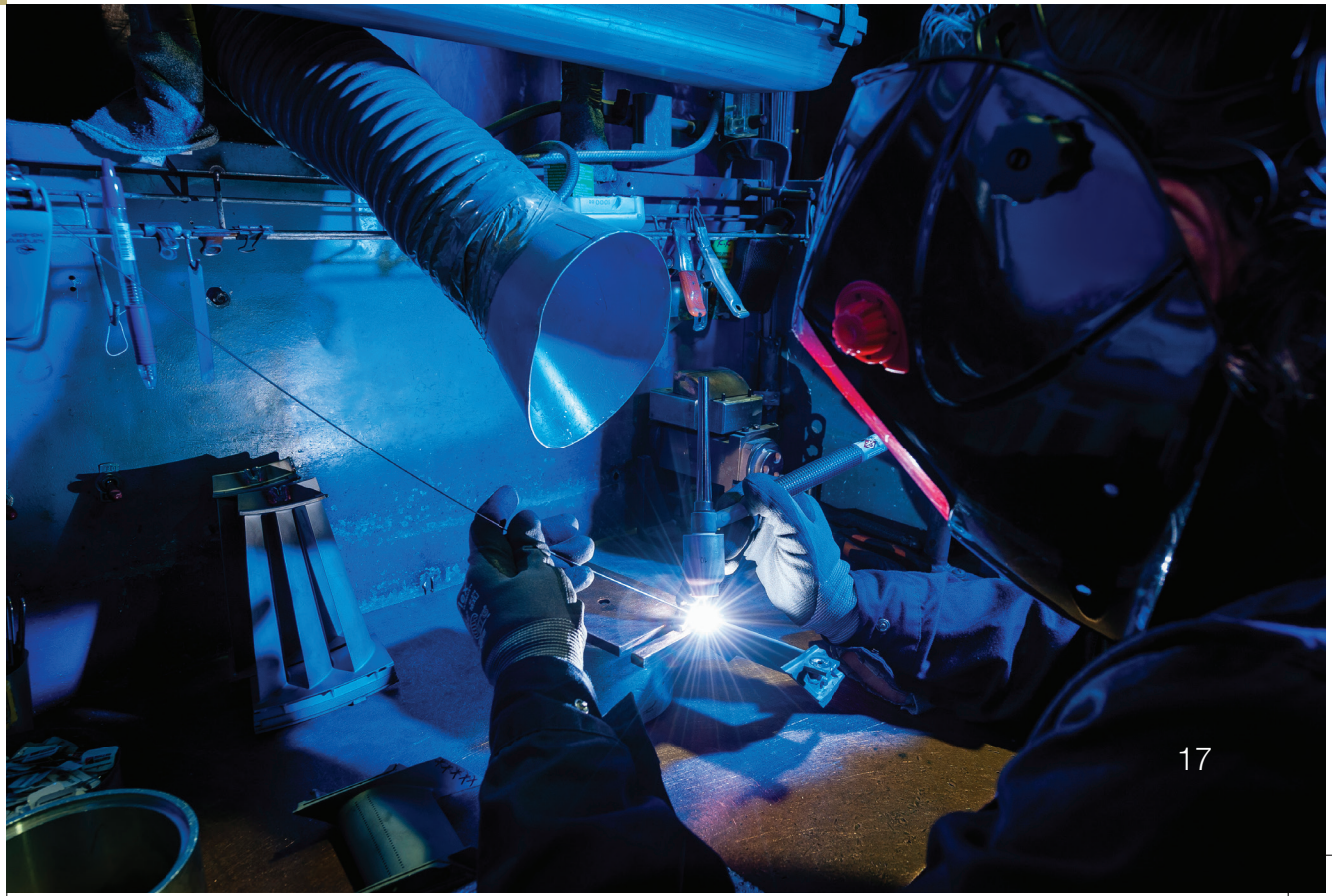
JET ENGINE COMPONENTS REPAIR

Turbochrome utilizes advanced technologies to repair and recondition various engine components from both commercial and military engines as well as Ground Turbines.

Turbochrome has reliable and approved Quality Control System that complies with AS9100C and certified by the FAA, EASA and NADCAP.

Main types of parts repaired include:

- Turbine N.G.Vs & Blades
- Compressor Vanes and Blades
- Fan Blades
- Exhaust Flaps
- IGT Nozzles & Buckets



SPECIALIZED MACHINING PLATING AND GRINDING SERVICES (MPG)

Our unique ‘one-stop-shop’ offers a multitude of specialized services, including in-house machining and electroplating capabilities including non-destructive testing and shot peen. This allows for the repair, refurbishment or remanufacturing of components, resulting in significant cost benefits and reduced turn times.

NON-DESTRUCTIVE TESTING	PLATING	SHOT PEEN
Fluorescent Penetrant	Chrome Plating per SAE-AMS-QQ-C-320	AMS 2430 Standards
Magnetic Particle Inspections	Cadmium Plating per SAE-AMS-QQ-P-416, MIL-STD-870, and MIL-STD-1500	
Dye Penetrant	Alodine Plating per MIL-DTL-5541	
Eddy Current	Anodizing Plating per MIL-A-8625	
Ultrasonic Inspection.		

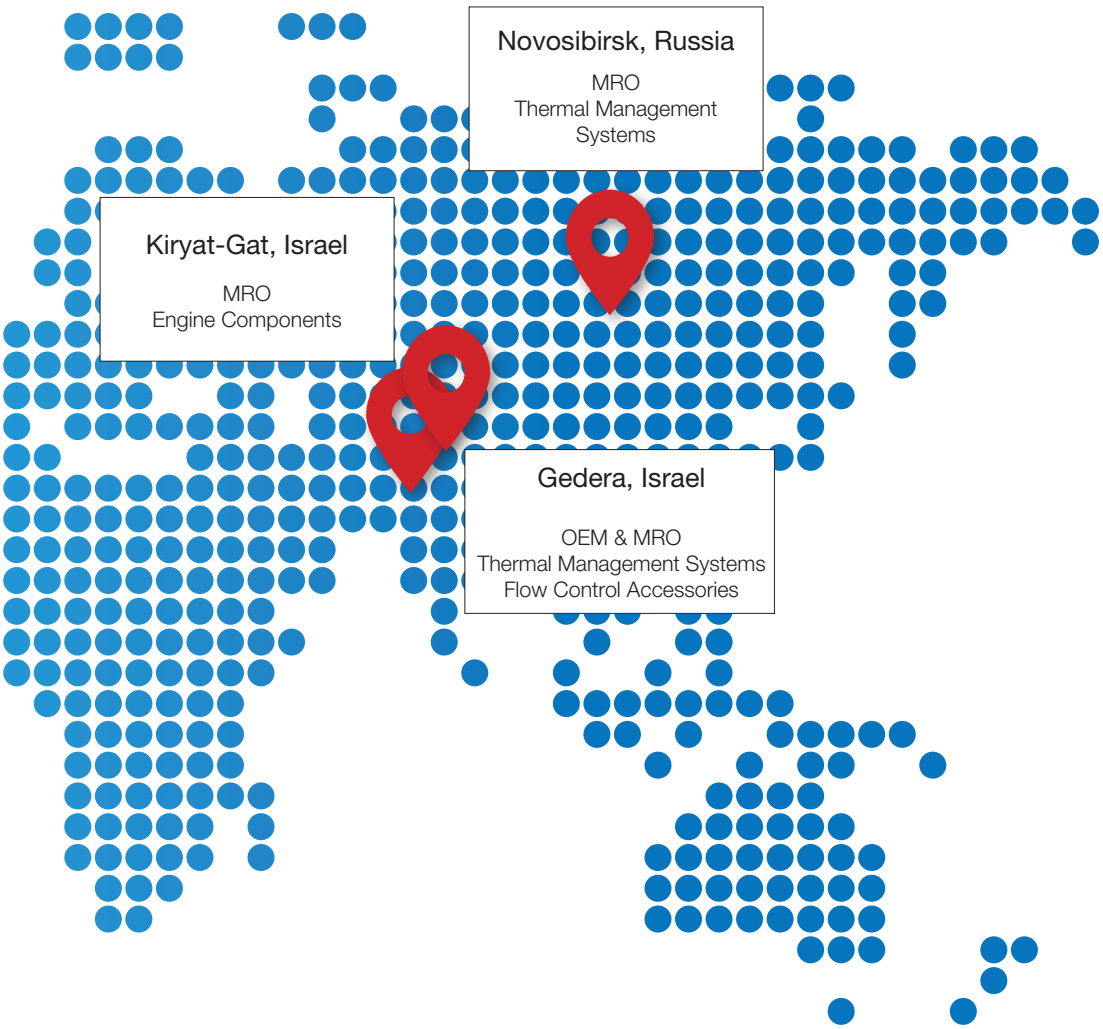
MASKING MATERIALS

Turbochrome has developed masking materials to prevent coating during high-temperature diffusion coating/processing. The need for masking application is preventing the formation of a coating layer at specific areas of the blades and vanes at which coatings is forbidden due to dimensional precision and are not exposed to elevated temperature during operation in the engine.

COATINGS

- Diffusion coating to resist temperature corrosion and erosion
- Air Plasma coating
- HVOF coating
- Plated CBN Tip
- Nickel Boron Thulium

GLOBAL PRESENCE


Novosibirsk, Russia
MRO
Thermal Management
Systems
Kiryat-Gat, Israel
MRO
Engine Components
Gedera, Israel
OEM & MRO
Thermal Management Systems
Flow Control Accessories

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