



## COMPANY PROFILE



The PBS brand is built on **200 years  
of history and a global reputation**  
for high quality engineering  
and production

[pbsaerospace.com](http://pbsaerospace.com)



## ABOUT PBS AEROSPACE

**PBS AEROSPACE** is part of **PBS GROUP**, an engineering manufacturer which operates globally in aerospace, foundry, precision engineering, cryogenics and energy with production located in the Czech Republic, Europe.

**PBS** has been in the Aerospace industry for over 50 years as a designer and manufacturer of aircraft engines, auxiliary power units, environmental control systems and specific custom-made aircraft solutions.

## PRODUCTS & SERVICES



### AEROSPACE

We develop and manufacture turbine engines, APUs and ECS for the manufacturers of aerospace products from more than 30 countries around the world.



### CRYOGENICS

We are a major supplier of cryogenic compressors and pumps for the world's leading manufacturers of cryogenic systems.



### POWER ENGINEERING

We have a long-standing tradition in the development, construction and implementation of turbine and industrial boiler deliveries. We provide comprehensive service and device reconstruction.



### SURFACE TREATMENTS

We are a leading supplier of galvanic surface finishes with a comprehensive range of services.



### SERVICES & MAINTENANCE

We provide first-class service performed by experienced teams of our experts. We offer our customers maximum technical support. Thanks to the combination of specialized operations under „one roof“, we are able to meet high technological demands.



### PRECISION CASTING

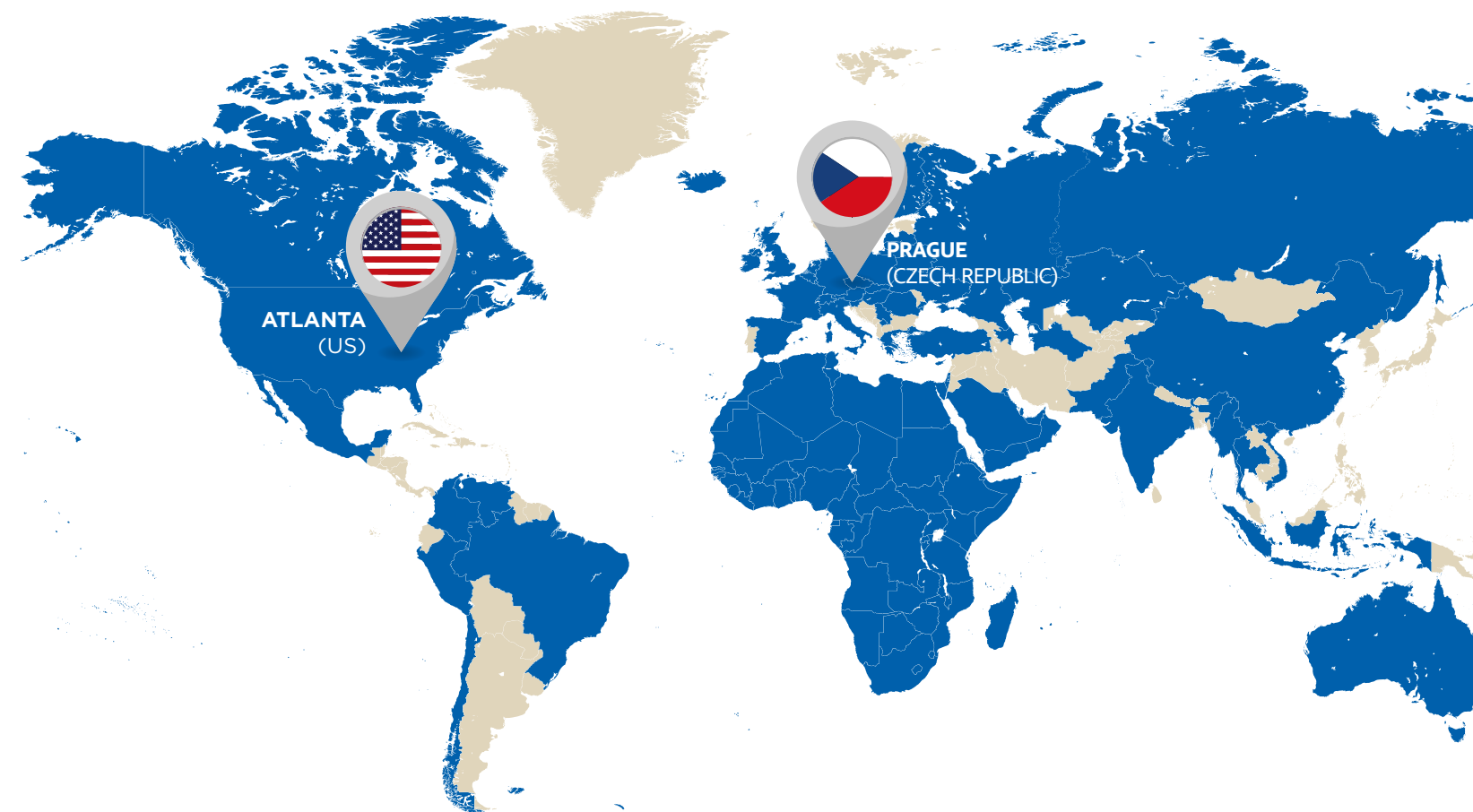
We cooperate with leading world manufacturers of turbochargers, combustion turbines, aviation components etc. We produce the most technically advanced products with maximum durability.



### PRECISION MACHINING

We offer precision machining of both rotating and non-rotating castings, forgings and weldments. We supply heavyweight weldments including the provision of material, heat treatment and surface treatment.

- In the US market for over 10 years
- Office located in Atlanta, GA
- Local team of experienced professionals
- US DoD qualified










# AEROSPACE PRODUCTS

PBS HAS DESIGNED AND SUCCESSFULLY LAUNCHED A SERIES OF HIGH-QUALITY AND RELIABLE AEROSPACE PRODUCTS:

**Small turbine engines**  
are designed for UAVs, target drones, missiles, experimental aircraft and ultralight helicopters.

**Auxiliary Power Units (APU)**  
are designed to delivery compressed air for starting the main engines and to supply electrical power for aircraft and helicopters.

**Environmental Control Systems (ECS)**  
are designed to maintain a comfortable thermal environment in the cockpit, passenger cabin and cargo holds of aircraft and helicopters during ground operations and all flight modes.

	ADVANTAGES	CIVIL & COMMERCIAL
<div><b>TURBOJET ENGINES</b></div> <div>1000+ flying worldwide</div> <div></div>	<div>→ Excellent weight/thrust ratio</div> <div>→ Compact design</div> <div>→ Low fuel consumption</div> <div>→ Electric starting system</div> <div>→ Ground or in-flight restart</div> <div>→ Short starting sequence</div> <div>→ High variability in starting positions/client requirements</div> <div>→ <b>Thrust:</b> 52 – 337 lbf</div> <div>→ <b>Weight:</b> 4.4 – 43.2 lbf</div>	<div>UAV</div> <div>→ Micro-jets</div> <div>→ Transport</div> <div>→ Surveillance, Research</div> <div></div>
<div><b>TURBOPROP, TURBOSHAFT ENGINES 241 hP</b></div> <div></div>	<div>→ Light &amp; compact design</div> <div>→ High static thrust</div> <div>→ High performance, low vibrations and low noise</div> <div>→ Both tractor/push configurations</div> <div>→ Stable operation in high altitudes and temperatures</div> <div>→ Ability to start in very cold conditions without preheating</div> <div>→ <b>Power:</b> 180 kW</div> <div>→ <b>Weight:</b> 135.8 lbf</div>	<div>UAV</div> <div>EXPERIMENTAL</div> <div>→ Small personal aircraft</div> <div>→ Small helicopters</div> <div></div>
<div><b>AUXILIARY POWER UNITS (APU)</b></div> <div>5500+ installed and operating</div> <div></div>	<div>→ Supply of power + compressed air</div> <div>→ Unlimited number of main engine starts</div> <div>→ Continuous operation for up to 6 hours</div> <div>→ Easy maintenance</div> <div>→ <b>Nominal power:</b> 40 kVA</div> <div>→ <b>Max. bleed air quantity:</b> 62.4 lb/min</div>	<div>Civil aircrafts:</div> <div>L-39 Albatros</div> <div>L-159 ALCA</div> <div></div> <div>Helicopters:</div> <div>MI-8, MI-17, AC313</div> <div></div>
<div><b>ENVIRONMENTAL CONTROL SYSTEMS (ECS)</b></div> <div>7000+ installed and operating</div> <div></div>	<div>→ All-in-one cooling and heating</div> <div>→ Low weight, compact design</div> <div>→ No electricity requirements</div> <div>→ Ecological - no refrigerant</div> <div>→ Variability according client needs</div> <div>→ <b>Cooling power:</b> 36,900 BTU/hr</div> <div>→ <b>Heating power:</b> 211,800 BTU/hr</div>	<div>Civil aircrafts:</div> <div>L-39 Albatros</div> <div>L-159 ALCA</div> <div>Y12F</div> <div></div> <div>Helicopters:</div> <div>MI-8, MI-17, AC313</div> <div></div>

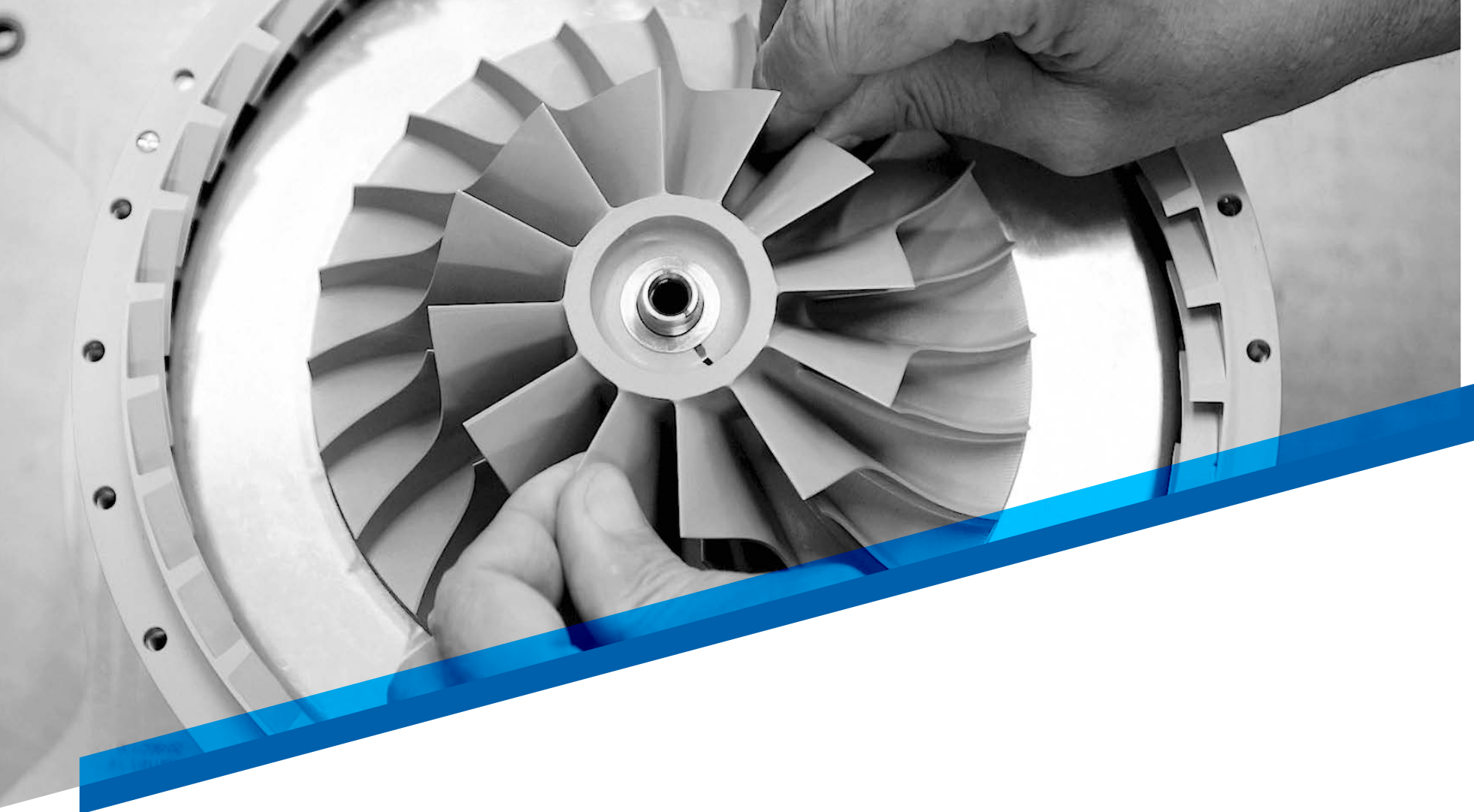
# PRECISION CASTING PRODUCTS

WE COOPERATE WITH LEADING WORLD MANUFACTURERS OF TURBOCHARGERS, COMBUSTION TURBINES, AVIATION COMPONENTS AND INSULATION MATERIALS BASED ON GLASS WOOL

We are one of the leading European foundries focusing on precision casting with more than 40 years of experience. Currently, the production program consists mainly of blades and segments of stationary gas turbines, impellers turbochargers, blades and integrally-cast turbocharger wheels, castings of impellers and guide wheels for aircraft engines and castings for glass spinning. We also deliver femoral components for the health sector.

- Air or vacuum casting
- From carbon steels to nickel or cobalt superalloys
- Range of casts dimensions: 2 – 20.5 in
- Weight range of casts: 0.33 – 176 lb
- Most technically advanced products with maximum durability

<div><b>AEROSPACE &amp; AUTOMOTIVE</b></div> <div>Impellers and guide wheels for aircraft engines, APU and casting parts for ECS</div> <div></div>	<div><b>POWER INDUSTRY</b></div> <div>Turbine blades and gas turbine segments</div> <div></div>
<div><b>TRANSPORTATION</b></div> <div>Turbocharger wheels and blades</div> <div></div>	<div><b>INSULATING MATERIALS MANUFACTURERS</b></div> <div>Spinner disks</div> <div></div>



**TRADITIONAL**  
engineering manufacturer with long  
term experience in the Aerospace  
industry



**INDEPENDENT OEM**  
with a complete range of in-house  
capabilities



**HIGH FLEXIBILITY**  
product customization  
and production



**CERTIFICATED**  
by EASA to design, produce  
and maintain turbine products  
for civil aviation



**US OFFICE IN ATLANTA, GA**  
with experienced local management



**COMMITTED**  
to provide service and life cycle  
support around the world

## HIGHLIGHTS

**6**

OFFICES  
WORLDWIDE

**75 %**

OF PRODUCTION  
EXPORTED

TO

**30+**

COUNTRIES

**200+**

YEARS OF HISTORY

**50+**

YEARS IN  
AEROSPACE



**RESEARCH &  
DEVELOPMENT**  
in-house capabilities



**INVESTING HEAVILY**  
in progress & further expansion

**800**

EMPLOYEES

**10**

YEARS IN THE  
US MARKET

**90 %**

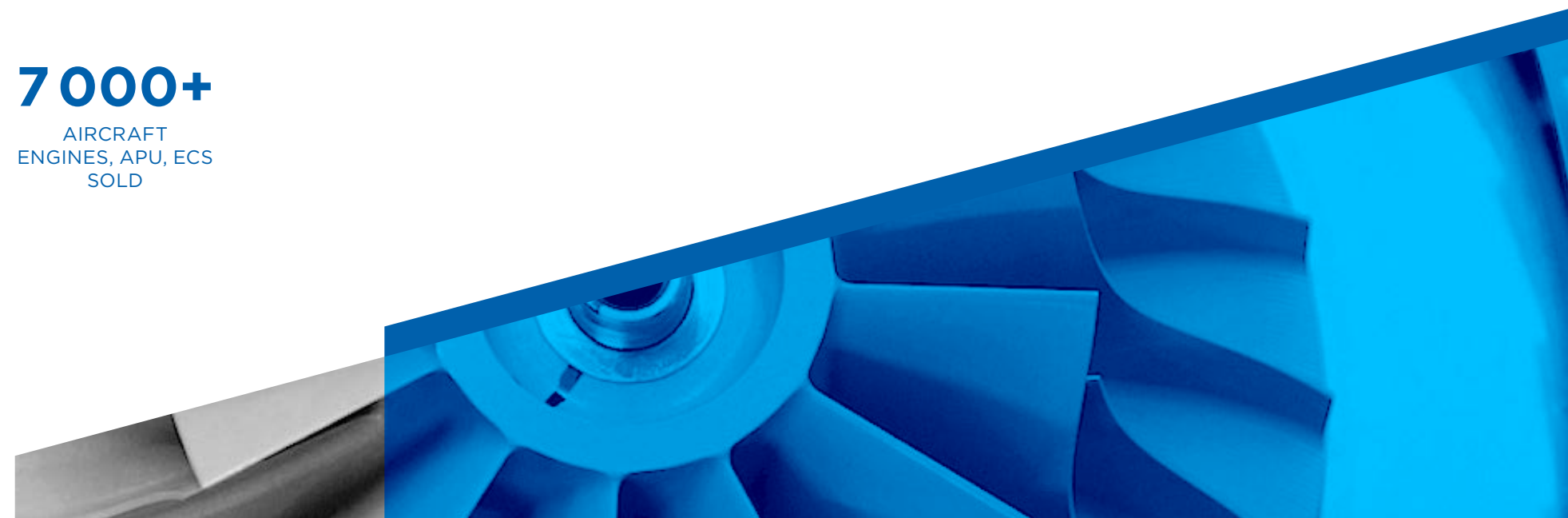
DEVELOPED,  
MANUFACTURED  
AND TESTED  
IN-HOUSE

**5+**

MIL. EUR PER YEAR  
IN RESEARCH &  
DEVELOPMENT

**7 000+**

AIRCRAFT  
ENGINES, APU, ECS  
SOLD





# MAJOR LICENCES AND CERTIFICATES



→ Approval to design, manufacture and maintain turbine machines and equipment **EASA –DOA, POA, MOA**



→ Certificate for manufacturing and maintaining the military aerospace products **MAA 056** and **MAA 076** from the Ministry of Defence

→ Certificate of Conformity of the quality system with the requirements of **ČSN EN ISO 9001:2009** and **ČOS 051622 (AQAP 2110)** from the Defence Standardisation, Codification, and Government Quality Assurance Authority

→ Civil certificates from **ARMAK** and **CAAC**

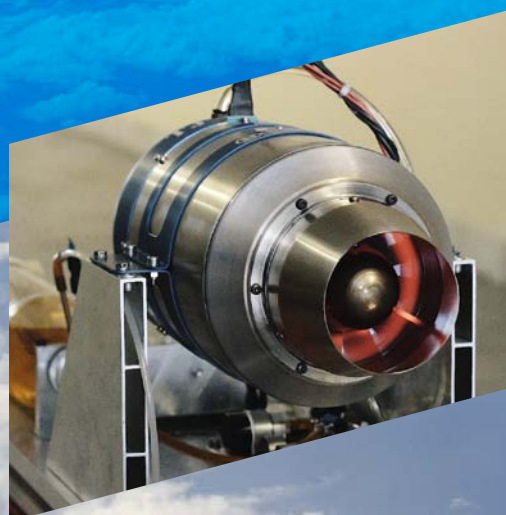
→ **NADCAP** for non-destructive testing (PT, RT) and chemical processes

→ Certificates: **AS 9100, ISO 9001, ISO 14001**



## FACILITIES

- Large Production Plant
- Various Advanced Technology Equipment
- Development and Testing Laboratories
- Precision Casting Foundry
- Centre for Practical Education
- Surface Treatment Facilities



### **PBS AEROSPACE INC**

3400 Peachtree Rd. NE, Suite #939,  
Atlanta, GA 30326, USA

Email: [info@pbsaerospace.com](mailto:info@pbsaerospace.com)

[www.pbsaerospace.com](http://www.pbsaerospace.com)