

AIRCRAFT COMPONENTS AND PARTS MANUFACTURING



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

AIRCRAFT COMPONENTS AND PARTS MANUFACTURING BY PBS

PBS INDIAis a member of PBS GROUP – stable, highquality and innovative engineeringcompany that has been active in the field of high precision engineering for over 200 years. PBS offers its technological capacities, namely machining, milling, heat treatment, coating, and welding in unmatched quality as well as investment casting, surface treatment, non-destructive testing, and other services related to the production of aircraft parts.

MACHINING



Service description	Dmax	Lmax
5-axis machining 5-axis	300 mm	300 mm
milling Centerless grinding	600 mm	400 mm
Cylindrical grinding (outer)	20 mm	100 mm
Cylindrical grinding (inner)	300 mm	500 mm
3D laser cutting & drilling	300 mm	300 mm
	300 mm	300 mm

Service description	X	Υ	Z
3-axis machining & drilling	600 mm	400 mm	400 mm
Flat grinding	600 mm	200 mm	200 mm
Electrical discharge machining	300 mm	300 mm	300 mm

GEAR GRINDING



Service description	Dmax	Bmax	Module	Gearing incl. angle
External involute gearing	320 mm	70 mm	max. 6 mm	O°
Internal involute gearing	300 mm	70 mm	max. 6 mm	O°
Involute gearing milling	150 mm	100 mm	max. 2 mm	±45°
Involute gearing elongation	60 mm	_	max. 2 mm	O°
Gear grinding	260 mm	400 mm	_	_

SURFACE TREATMENT



Aluminium alloys	X	Y	Z
Hard anodizing	1,85	08 5m0m	1 5m 5m0
Hard black anodizing	1,85	08 5m0m	1 5m 5m0
Natural anodizing	1,85	08 5m0n	1 5m 5m0
Natural black anodizing	1,850 mm	850 mm	550 mm
Anodizing in chromic acid	1,850 mm	850 mm	550 mm

Cooper, steel, brass	X	Υ	Z	
rNiqkel coating	1,85	08 5m0m	15n5m0	m m
ո հ in _m soating	1,85	08 5m0m	15m5m0	m m
r本ing coating	1 , 8 5	08 5m0n	15m5m0	m m
Blackening	1,85	08 5m0n	15n5m0	m m
Cerainic core leaching	Х	Y	Z	
	500 mm	500 mm	380 mm	

OTHER SERVICES



Service description	Dmax	Pitch	
Screw-thread rolling	18 mm	1.5 mm	
	Dmax	Pivot Ø	Rotor weight
Balancing	350 mm	60 mm	max. 15 kg
	Х	Y	Z
Heat treatment and	600 mm	600 mm	400 mm
soldering Turbine blades	400 mm	400 mm	_
coating (X = Ø)			

Service description	
Resistance spot welding Resistance seam welding	Sheet metal up to 1 mm thickness from various metals including stanless scel and depending on
3D laser cutting & drilling	diameter and material

OVERVIEW OF TECHNOLOGICAL CAPABILITIES

- > CNC machining, milling, and drilling
- > Parts grinding and coating
- , Gears grinding and grooving
- , Electrical discharge machining
- 3D laser cutting and drilling
- Annealing in vacuum furnace

- > TIG and resistance welding
- > Rotor balancing
- > Reverse engineering
- , Rapid prototyping
- , Non-destructive testing
- Surface treatment

STARTER-GENERATORS

AIRCRAFT GEARBOXES





SINGLE & TWO-CHANNEL VALVES & FILTERS **IGNITIONS**









OTHER AIRCRAFT PARTS & COMPONENTS

- >Air Generator
- >Air-fl ow Limiters
- > Ejectors
- >Electronic Control Systems
- > Fans
- >Fuel Pumps
- >Heat Exchangers
- >High Pressure Water Separators Turbocoolers
- >Low Pressure Water Separators Air Filters

- > Oil Tanks
- > Overpressure Regulators
- > Pneumatic Control Systems
- , Precoolers
- , Speed Sensors
- , Temperature Selectors
- **Thermostats with Filters**

- > Fuel Filters Inlet
- > Filters Control
- > Valves Reduction
- > Valves Release
- > Valves Safety
- > Valves Shut-off
- > Valves Single-way
- > Valves Slide
- > Valves

Licences and Certifi cates







Approvaltodesign, manufacture and maintain turbine systems and equipment EASA - DOA, POA, MOA

>Certifi cates for manufacturing and maintaining the military aerospace products MAA 056 and MAA 076 from the Ministry of Defence and Armed Forces of the Czech Republic

>Certifi cate of Conformity with the quality system and with the requirements of **ČSN EN ISO**9001:2015 and **ČOS 051622** (AQAP 2110) from the Defence Standardisation, Codifi cation, and Government Quality Assurance Authority

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

>Certifi cates: **AS 9100**, **ISO 9001**, **ISO 14001**





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