



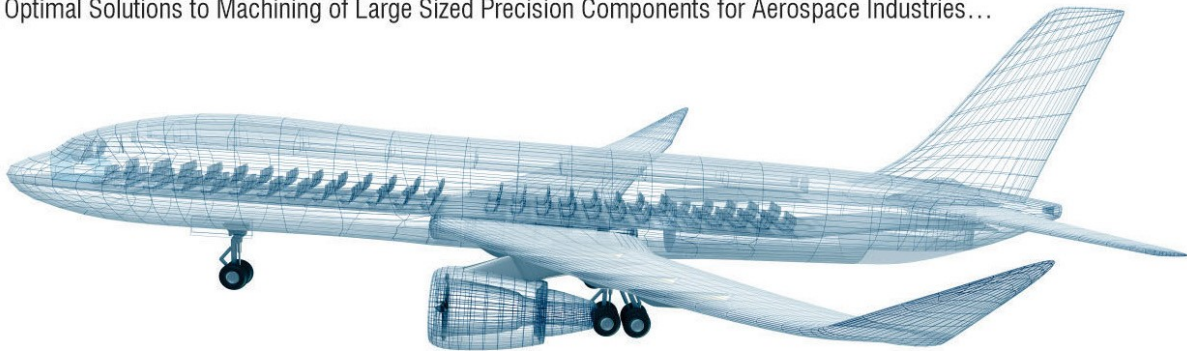
GO BEYOND THE TRANSMISSION

Simultaneous 5-Axis CNC Machining facility for Large Sized Components

Builds a competitive superiority in Aerospace & Defense industry and process engineering solutions to produce the most accurate parts in the industry with optimum trust.

PUSHPAK's expertise to provide most efficient and sustainable solutions in the field of precision machining with the advanced technique certified for the manufacturing of Aerospace Industries...

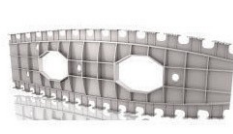
Providing Optimal Solutions to Machining of Large Sized Precision Components for Aerospace Industries...



Aero Frames Components



Wing Ribs



Wing Spars



APU / Impellers



Flap Tracks



Pylons



Landing Gear



Frames (CFRP)

Aero Engine Components



Turbine / Fan Case



Disc



Turbine Spool



Turbine Shaft



Blisk

PUSHPAK's expertise to provide most efficient and sustainable solutions in the field of robust & precision machining with the advanced technique certified for the manufacturing of Defense Industries...

Providing Optimal Solutions to Machining of Large Sized Precision Components for complex mechanism at Defense Industries...

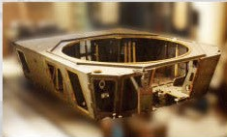
Tank / Howitzer Gun Components



HULL Structure



Turret Structure



Turret Ring



Drive Sprocket



Road Wheels



Trunnion

Air Craft Components



- Wing Spars
- Wing Ribs
- Flap Tracks
- Tail Frames (CFRP)

Naval Vessel Components



Propeller Blades



Drive Gears
Reduction Gears
Operating Gears



Framing



Door Hatches



Inhouse Facility for Non-Ferrous Centrifugal Casting upto 3000 Kg

PUSHPAK's expertise to provide most efficient and sustainable solutions in the field of high precision machining in complex mechanism with the advanced technique certified for the manufacturing of space application equipments...

Providing Optimal Solutions to High Speed 5-Axis CNC Machining of Large Sized Precision Components in the material applications such INVAR / INCONEL / STEEL / TITANIUM / ALUMINUM / CASTING / CFRP of Space application equipments...

Reflector Moulds

Significant accuracy upto the RMS value of $0.010\mu\text{m}^{**}$



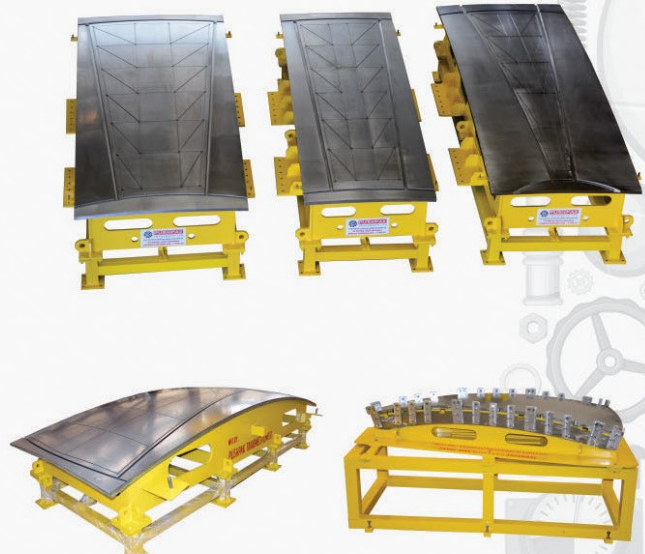
Ø 3000 mm



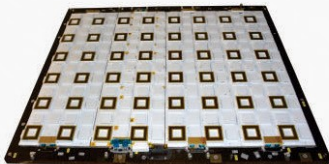
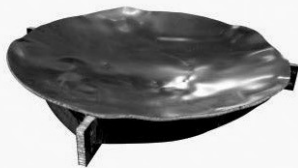
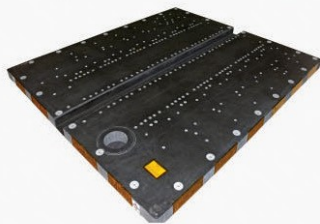
Segmented / Petals



Stretch Forming Dies & Toolings Fixtures with Vacuum System



Carbon Fiber Machining Composite Machining



Interface Ring Machining



Ground Station Antenna Fabrication Integration with Automation



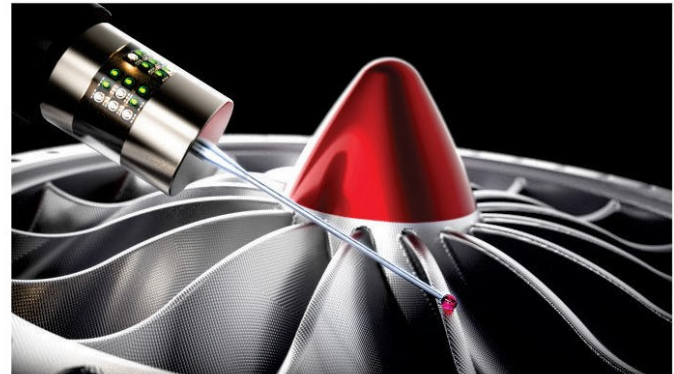
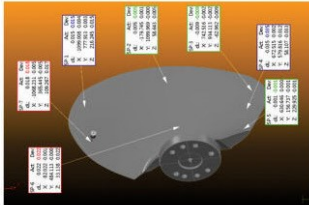
INSPECTION

PUSHPAK's advanced inspection technology is comply with the RENISHAW RMP600, a compact, high accuracy touch probe with radio signal transmission, offering all the benefits of automated job set-up, "OMV" on machine verification to measure complex 3D part geometries inbuilt with 5-Axis machine control.

PUSHPAK's led plus 3D modeling expertise with worldclass Blue Light 3D Scanner technology from ZEISS Steinbichler. Delevering excellent 3D data quality and highly accurate results by extremely short measuring time and no size limitation of the components with high quality assurance.

Areas of Application

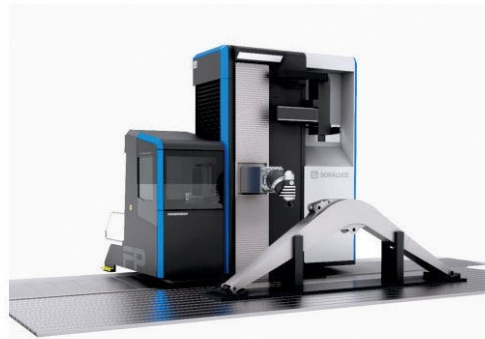
- Quality Control / Inspection
- Mold and Tool making
- Design
- Rapid Manufacturing
- Reverse Engineering



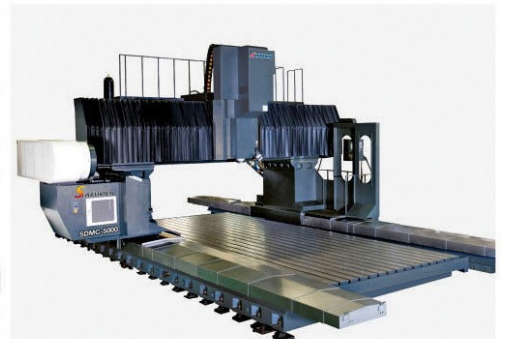
MACHINING FACILITY



'Y' Axis : 8500 MM
 'X' Axis : 4000 MM
 'Z' Axis : 2500 MM
 'A' Axis : (±) 120°
 'C' Axis : 360° Continuous



'X' Axis : 6000 MM
 'Y' Axis : 3500 MM
 'Z' Axis : 1500 MM
 5-Axis Universal Head



'X' Axis : 8000 MM
 'Y' Axis : 4800 MM
 'Z' Axis : 1500 MM
 Full Auto Orthogonal Head

VERTICAL MACHINING CENTER

HORIZONTAL MACHINING CENTER

HORIZONTAL LATHE CONVENTIONAL

- Length : Upto 12,000 mm
- Turning Dia. : Upto 2000 mm

VERTICAL LATHE

- Turning Dia. : Ø 7000 mm.

GEAR HOBBER / SHAPPER



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