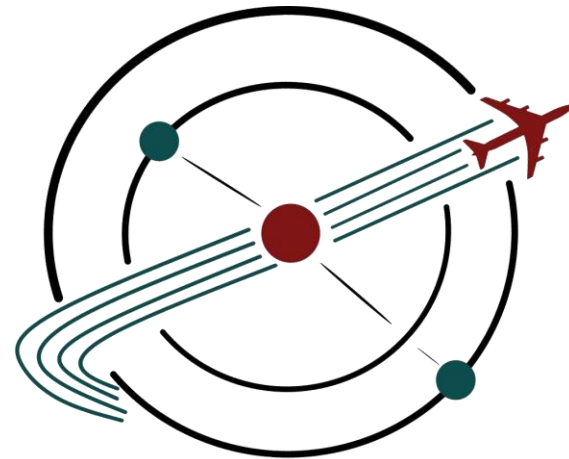


# Pyxis Aero

- ▶ PRECISION  
AEROSPACE  
MANUFACTURING
- ▶ EXPERT TEAM
- ▶ CERTIFIED COMPANY  
AS 9100 & ISO 9001



**PYXIS**  
**AERO**

 **Ploiesti, Romania**

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**Phone:** +40 724 677 804

**Certifications:**

AS9100 | ISO 9001

# About Pyxis Aero

- ▶ Pyxis Aero SRL is a newly established aerospace manufacturing company in Ploiești, Romania, created from a bold idea that rapidly took shape through the ambition and dedication of our team of talented friends and colleagues.
- ▶ Despite being a newly formed company, our technical and production team is exceptionally strong, backed by more than 12 years of experience in manufacturing aerospace components for Rolls-Royce aircraft engines.
- ▶ We are committed to precision, quality, and continuous improvement through high-end technology and automation.

# Production space



We operate from a 600 sqm facility designed for lean, high-precision manufacturing plus another 600sqm ready for fast expansion.



Despite a compact footprint, our setup rivals' larger plants through digital twin simulation of Hypermill CAM programming and fully integrated 5-axis and EDM machining and 4 axis turning.



Our adaptive manufacturing environment ensures we can increase capacity efficiently without sacrificing quality or throughput.

# 5-Axis Milling Equipment



- ▶ Mikron HPM 800 U: Dual-pallet system, 115-tool magazine, 20,000 rpm spindle
- ▶ **X-axis:** 800 mm
- ▶ **Y-axis:** 800 mm
- ▶ **Z-axis:** 550 mm
- ▶ **Table Size:** 630 x 500 mm
- ▶ **Max. Part Weight:** 800 kg
- ▶ Feed 60000mm/min
- ▶ High pressure thru coolant
- ▶ Heidenhain 530 controller

# 5-Axis Milling Equipment



- ▶ Mikron MILL S 600 high speed with robot automation:
- ▶ 180pallets for small parts up to 20kg, 4 pallets up to 150kg
- ▶ 68-tool magazine,
- ▶ 42,000 rpm spindle
- ▶ **X-axis:** 600 mm
- ▶ **Y-axis:** 600 mm
- ▶ **Z-axis:** 420 mm
- ▶ **Max. Part Weight:** 250 kg
- ▶ Feed 60000mm/min linear
- ▶ Heidenhain 530 controller
- ▶ Graphite machining capability
- ▶ Robot for part loading and lights out capability

# 5-Axis Milling Equipment



- ▶ Mikron HPM 1850 U:
- ▶ 3 pallets 1400mm diameter
- ▶ 120-tool magazine,
- ▶ 15,000 rpm spindle
- ▶ **X-axis:** 1850 mm
- ▶ **Y-axis:** 1400 mm
- ▶ **Z-axis:** 720/900 mm
- ▶ **Max. Part Weight:** 5000 kg
- ▶ Feed 40000mm/min linear
- ▶ Heidenhain 530 controller

A unique big 5 axis simultaneous machine that is unique in Romania will be fully operation end of January 2025 with precision under 0.01 mm

# Wire EDM – Precision Cutting



- ▶ AgieCharmilles Progress VP3
- ▶ Travel: 500 × 350 × 426 mm • Taper cutting  $\pm 30^\circ$  • High accuracy, Ra 0.1–0.2  $\mu\text{m}$
- ▶ Automatic threading and finish-quality surface results
- ▶ Machining dimension 1050 x 650 x 420 mm

# Turning



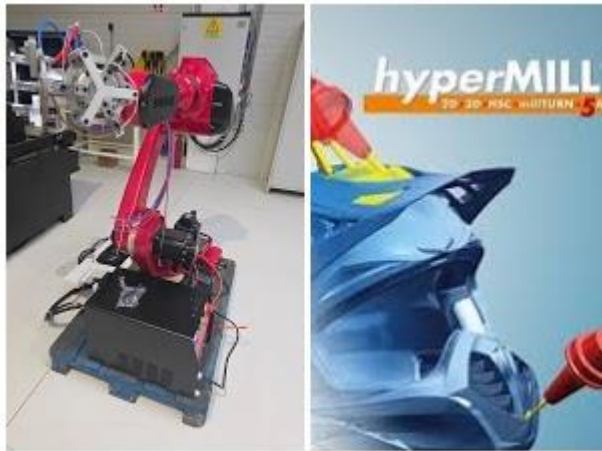
- ▶ Newly commissioned Okuma 450 LB3000 EXIII MYW
  - ▶ Dual spindle, Y-axis, live tooling up to 6000 rpm, and main and sub spindle up to 6,000 rpm
  - ▶ Full turn-mill integration for complex geometries
  - ▶ With automatic bar-feeder for automation if needed
  - ▶ With Y turning and part probing
- Capability

# Quality Inspection & Metrology



- ▶ Wenzel LH87 CMM
- ▶ Mitutoyo PH-3515F  
Profile Projector with automated  
edge finder
- ▶ Roughness tester Mahr PS10
- ▶ Height gauge Mahr 2D HG1 600

# CAM & Prototyping Tools



- ▶ Hypermill with custom postprocessors for each machine
- ▶ Digital twin (virtual machines) for safe and efficient programming with best fit capability for the milling machine
- ▶ Industrial filament 3D printer for clamping fixtures and prototypes
- ▶ 1 industrial 6 axis robot for automation implementation on lathe or milling if needed

# Other equipment

- ▶ Ghuring shrink fit device
- ▶ Zero point vices for fast and precise setups(Lang, Shunk, 3R system)
- ▶ Stamping device for minimum clamping
- ▶ Matrix tool cabinet for traceability
- ▶ Revers osmosis plant for emulsion mixing eliminating impurity that enter in contact with the pars
- ▶ Dot pen marking machine
- ▶ MEP band SAW cutting machine

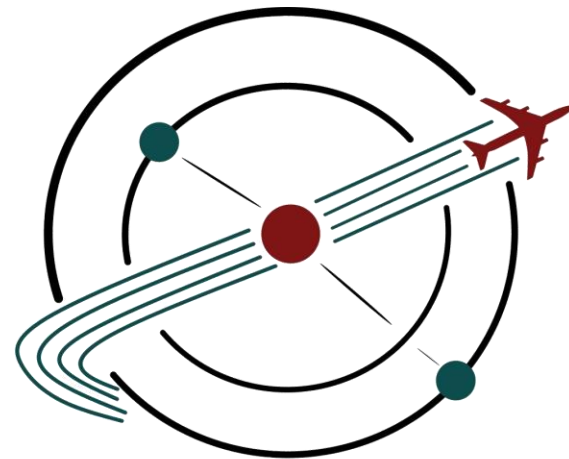


# Planned Expansion – Automation

- ▶ Planned acquisition: Mikron Mill E 700 U with automation
- ▶ Planned acquisition: Okuma Multus B250
- ▶ Implementing NDT capability and NADCAP till 2027

# Vision & Capability Summary

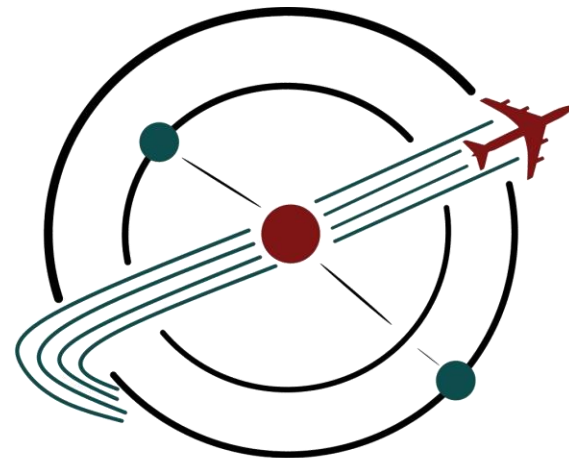
- ▶ Precision machining across multiple technologies (5-axis, turning, Wire EDM)
- ▶ Experienced team from aerospace sector (12+ years)
- ▶ Ready for scalable growth and advanced part production
- ▶ Focused on aerospace sector compliance and reliability
- ▶ With plans for accessing EU funds to develop ourselves with a new production facility



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