

HIGH PRECISION COMPONENTS MANUFACTURING

Assembling
and testing



Aeronautic



Nuclear



Industrial



INTRODUCTION

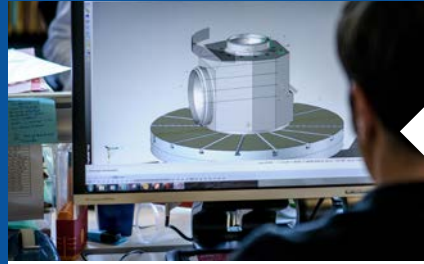
Trillium Flow Technologies France (ex-WEIR) is part a worldwide group dedicated to valves, pumps and services. Apart from nuclear valve expertise, Trillium Flow Technologies France is also recognized as a specialist and a leader in high precision components manufacturing for over 40 years.

Located in Saint-Victoret (13), based on the company's nuclear and aerospace culture, Trillium France has been successful in applying its expertise and know-how into high precision manufacturing, sub-assembly and hydraulic/pneumatic testing.

Its manufacturing center is mainly dedicated to the aerospace industry, Airbus being its first customer in this business area.

Trillium Flow Technologies France possesses many quality certificates (required by aerospace industry) and is willing to acquire other qualifications according to potential customer needs.

KEY FEATURES



Machined parts and mechanical assemblies industrialisation, electrical and hydraulic tests (TopSolid & Solid Edge softwares)

Precision machining enabled by state-of-the-art machinery



Assembly of mechanical sub-structures through special processes and certificates*: ring locked (Rosan) laying, structural and non-structural riveting, shrink-fitting, crimping, bonding, paint retouching, varnishing

CURRENT CUSTOMERS



Aeronautic

Aircraft, helicopter designers / manufacturers



Nuclear plants

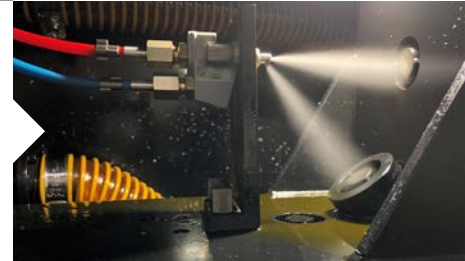


Systems integrators



Maintenance centers

Strength and operational testings



Maintenance work offering expertise, disassembling, cleaning, parts replacement, reassembly, testing

Nuclear and aeronautic culture adding value on industrial offer: quality requirements (QHSE), tolerance level, deep drilling, specific materials, etc.



Dedicated supply chain ensuring lead-times and cost optimization

Lean Culture (organization system to maximize value and eliminate waste)



MANUFACTURING SITE CAPACITIES

5,900 sqm (under roof) | 12,000 sqm site
170 employees

MACHINERY



DMU 125 FD DuoBlock

5 axis machining center
(turning/milling)
Travel 1250/1250/1000 mm

DMU 60 eVo served by a robot

5 axis machining center
(turning/milling)
Travel 600/500/500 mm

DMU 70 served by a robot

5 axis machining center
(milling)
Travel 750/600/520 mm

Kasto twin A2

Saw

DMU 50 Deckel Maho served by a robot

5 axis machining center
(milling)
Travel 500/450/400 mm

Integrex 200 Mazak

5 axis CNC lathe

Hardinge Conquest 42 SP (x2)

3 axis CNC lathe

CTX 400

2 axis CNC lathe

ASSEMBLY & TESTING EQUIPMENT

Hydraulic presses, hand press machines, oven, fume hoods

Dye penetrant test machine

Test bench :

| Hydrostatic tests (air, water, oil)

| Flow tests

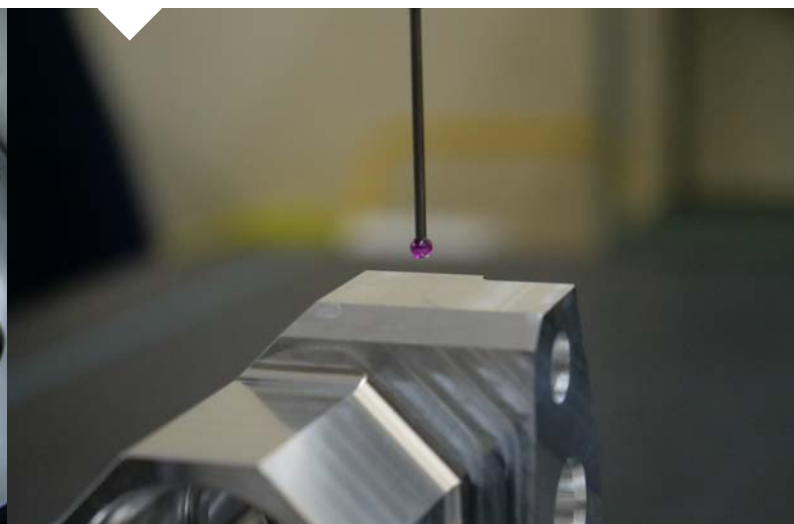
| Electrical tests

| Spray tests (air, oil)

| Calibration tests (on valves, discs, etc.)

MEASURING TOOLS

Coordinate measuring machine (CMM), portable ROMER arm, measuring column, profile projector, roughness tester, etc.



KEY ACHIEVEMENTS

1 | Aerostructures

- Fittings
- Engines (mounts, casings, nozzles)
- Mounting brackets
- Stiffeners

2 | Hydraulic sub-assemblies

- Collectors
- Bleed valves
- Connectors
- Actuators
- Hydro-mechanical governors
- Servo valves
- Control systems (HMU, FCU)
- Oil spray system / Oil jet

3 | Mechanical sub-assemblies

- Doors kinematics
- Levers
- Rods
- Cockpit joystick
- Toolings

4 | Nuclear components

- Nozzles
- Discs
- Valve heads
- Bodies
- Fittings

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2
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Trillium France

106 Boulevard Paul Raphel
13730 Saint Victoret

Cédric BARBERA

Sales engineer

+33 442 074 286 | +33 638 738 703
cedric.barbera@trilliumflow.com