

comutensili S.p.A.
www.comutensili.com - info@comutensili.it



Since 1976 Comutensili is specialized in machining of mechanical parts. The Company plays an important role in the industrial market. and our main Customers belong to different markets such as Aerospace, and Powergen

The Company is certified according to UNI EN 9100 and UNI ISO 9001. Our Quality System has been audited and approved by the most important players in the market.

Comutensili is a member of Turin Piemonte Aerospace and of the Aencom Cluster

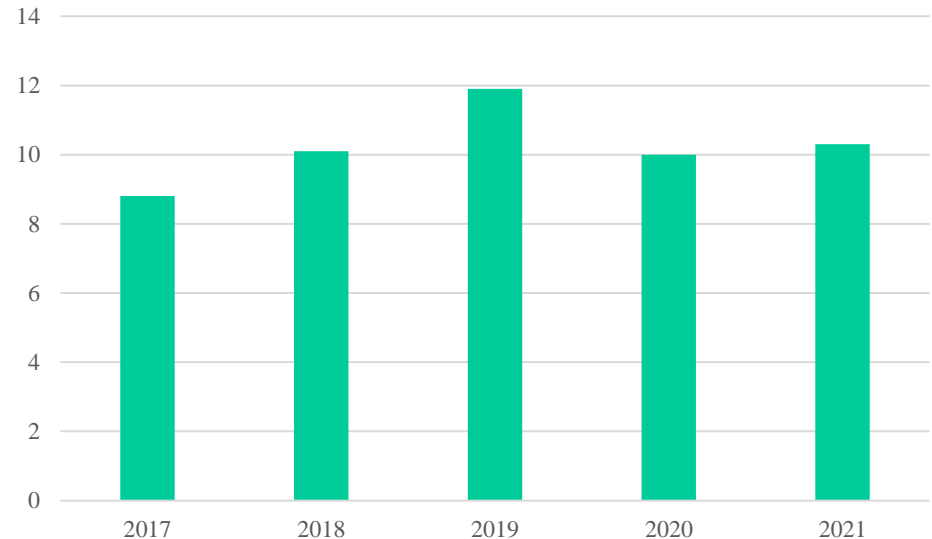


Comutensili employs around 75 workers in two different plants in Piedmont and it also has a subsidiary Company in Brasil.

Total Employees:	76
Production:	58
Tech Department:	10
Quality:	3
Commercial & Administration:	5



TURNOVER
ML/Euros



General Information

COMUTENSILI S.p.A.

www.comutensili.com

Head offices and Production Plant

Via Rondò Bernardo, 6
10092 Borgaretto–Beinasco (Turin) -Italy-
phone: +39 (0)11.35.89.123
fax: +39 (0)11.35.83.944
E-mail: info@comutensili.it

Production Plant

Via F.lli Berra, sn
10080 Ozegna C.se (Turin) Italy
phone: +39 (0)124.42.81.67
fax: +39 (0)124.42.81.39
E-mail: info@comutensili.it

Factory Area:

Sq.m. 4.500 (Borgaretto, Turin)
Sq.m. 2.500 (Ozegna C.se, Turin)

Brasil Facility

Eunapolis – Bahia (Sq.m. 1000)



Equipment Resources



Turning Machine

Dimension:
from 2 mm up
to max 1600
x1000mm



Milling Machine

Dimension:
800x800x 800



Grinding Machine CD

Dimension:
1500x500x500



EDM Machine

Dimension:
800x600x500



STEM and FAST EDM Drilling Machine

WEIGHT : 1000 KG

Quality Control Map

- Strictly ISO9001 and UNIEN9100 compliance
- Yearly internal audit
- Customer Audit

- Inspections Plan
- Quality Book
- Inspection Reports
- NDT
- Metallurgical Analysis

- Production Routing
- Working Instructions
- Traceability
- Maintenance

Control

Machining

Raw
Material

Delivery

- Qualified Supplier List
- Technical Specification
- CoC

- Final Inspection
- Packaging Instructions
- Shipping documents control
- CoC



Products



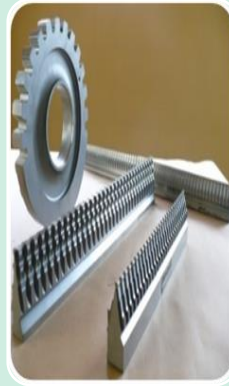
TURBINE BLADES

Blades machining
for Gas Turbine and
Aircraft Engines



TURBINE STATORIC PARTS

Vanes, Nozzles,
Shrouds, Guide
Rings, etc.



BROACHES:

Design and
production of
profiled broaching
tools for Aero
Engine and Gas
Turbine



AEROSPACE , GAS TURBINE PARTS

Machining parts:
turning, milling,
grinding, EDM,
drilling.

Alloy and
Superalloy
materials,
Titanium Stain
Steel, etc.



MECHANICAL COMPONENTS, FIXTURES, SPECIAL TOOLS

Design and
manufacturing and
assembly of parts and
components

Turbine Blades & Vanes

Comutensili is specialized in machining of
Blades, Vanes, Nozzles, Shrouds.

Main process available:

- Grinding Creep Feed
- Milling 4/5 axis
- EDM
- Drilling
- Stem Drilling
- Productive process management, including design and manufacture of complete tooling and fixtures.
- CMM machines, used for final inspection

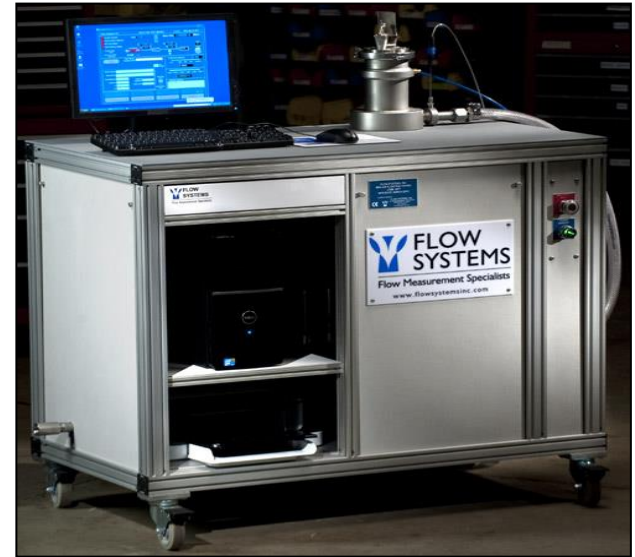


Every parts are controlled and checked 100% according to the Customer Requirements Specifications and Quality Plan

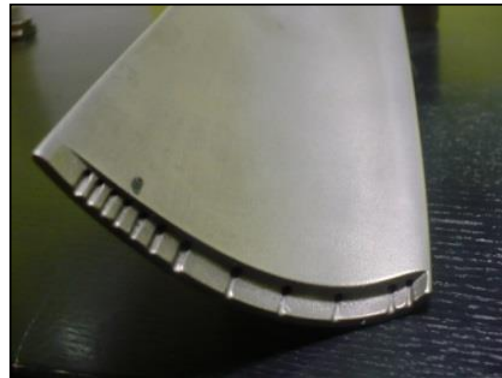
CMM Controls, FPI, Visual Inspection Air Flow Test

We can provide ND test, during qualification process with certified Laboratory.

We can manage Sheet Metal activities (Inserts, covers, honeycomb assembly, welding, brazing).



EDM Fast Drilling – STEM Drilling (Rx available)



CAPACITY

Grinding CD (4/5 machines about 17.500 hours/year capacity)

Milling 4/5 axis (5 machines about 14.500 hours/year capacity)

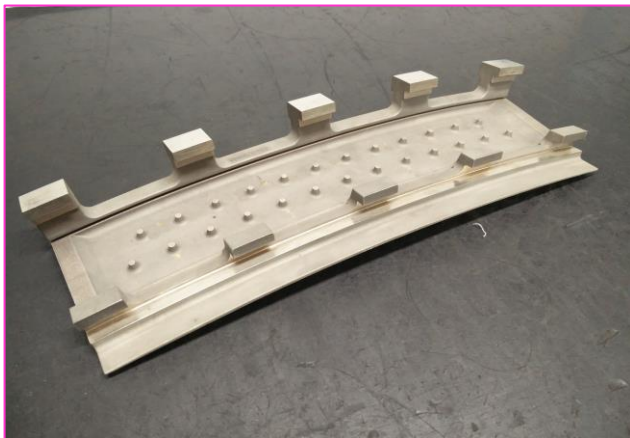
EDM (about 25.000 hours/year)

Drilling : EDM and ECM (STEM)

Number of pieces (capacity x year)

Blade: 2.500/3.000 pc.

Vanes: 2.000/2.200 pc.



Machining

Aerospace and Powergen Market.

Main processes available:

- TURNING from 2 up to 1600 mm
- MILLING 4/5 axis up to 800x800 mm
- EDM
- DRILLING
- GRINDING



Special processes available:

- HT
 - Surface Treatment
 - ND test
 - Metallurgical test
 - Welding/Brazing
- Supplier qualified (NADCAP)





Typical materials worked:
Inconel, Titanium, Renè, Hynes, Udimet,
Hastelloy, Alluminium, Stainless Steel
Shape: Forging, Casting, Bar, Plate ...(provided
directly or Customer supplied)



Main Programs:

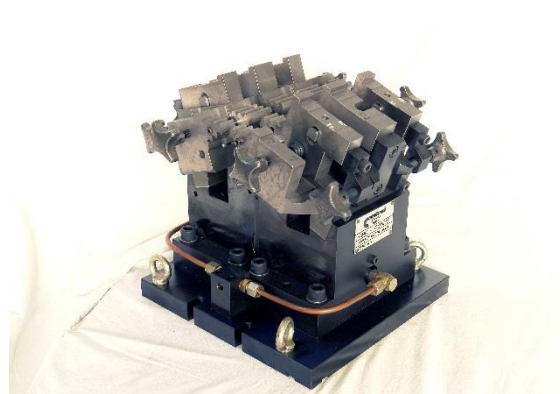
- LEAPX
- PW1100
- PWA-GTF
- GE90
- EJ200
- GEnX
- GE9X
- PW308
- TRENT500
- TP400
- TP600
- LMS100
- LM6000
- CF6-80





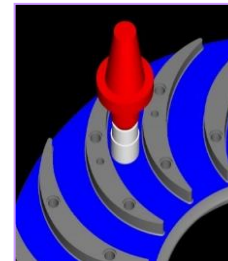
TOOLINGS and FIXTURES

Designing and manufacturing of complete toolings (Catia and Autocad software)

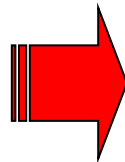


SMALL PARTS & ACCESSORIES

**CAD – CAM
Activity**



ADDITIVE MANUFACTURING

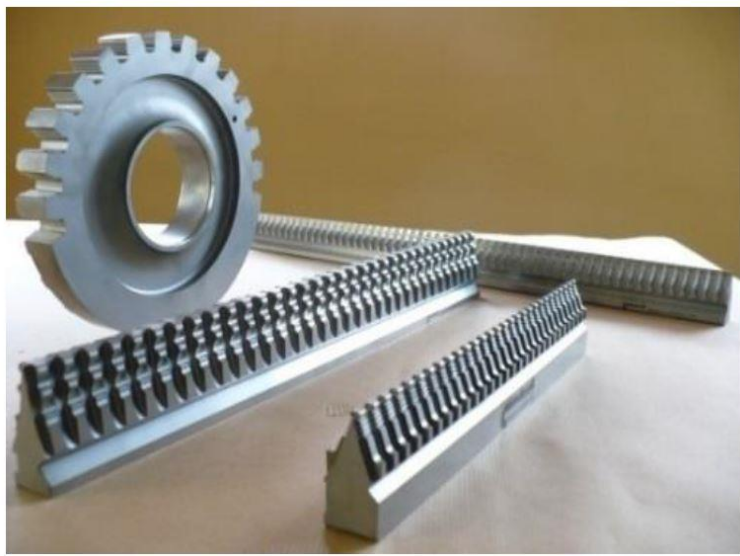


Comutensili is involved in developing programs for parts using additive manufacturing technology

Broaching Tools

COMUTENSILI is specialized in Designing and manufacturing of broaches (pine & dovetail) for Aerospace, Gas and Steam Turbine Industry.

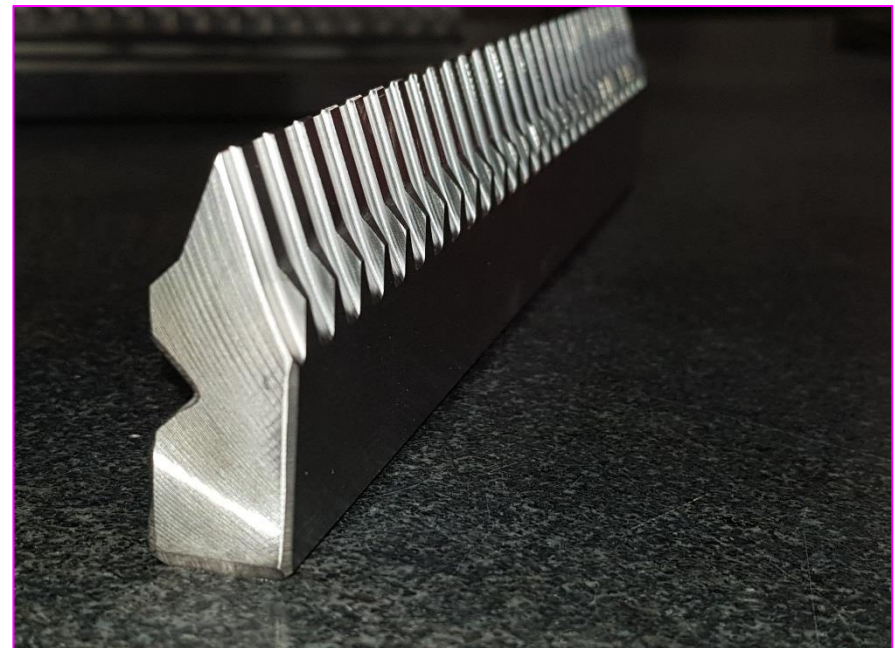
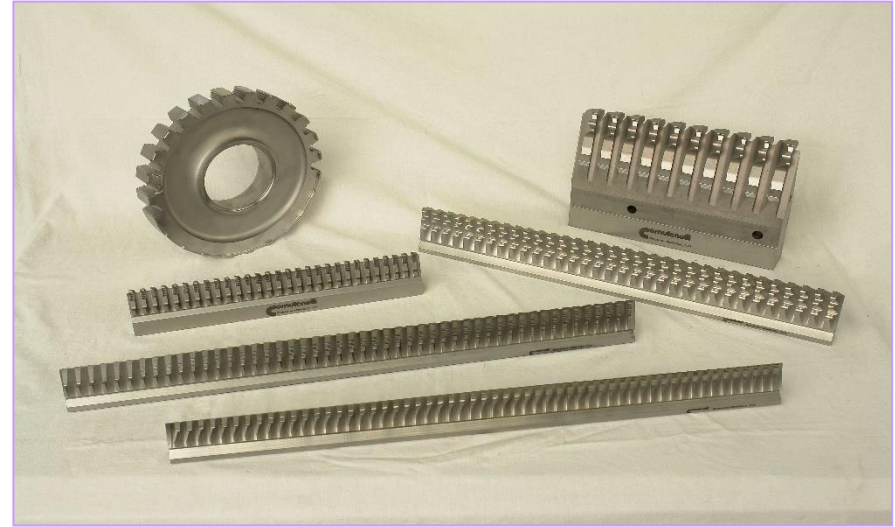
Sharpening service available.



Materials available:
T15CPM, ASP30, ASP2015, S590, etc.

Project and design of the tools, starting from the dwg
of the root.

Coupon Test



Thank you very much for your attention!

