



HIGH PRECISION ON CUSTOM PROJECTS

Colben
MECHANICAL SOLUTIONS

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COMPETENCE AND RELIABILITY IN PRECISION MACHINING

Since 1967

Founded in the 1970s by Arnaldo Benetti, Colben is now a **dynamic and innovative family-owned company**, led by his son Enrico Benetti, the creative mind behind its evolution.

A team of highly specialized professionals **ensures quality, punctuality, and maximum customer satisfaction**.

The company carefully selects its partners for complementary processes such as turning, painting, and polishing, guaranteeing a **comprehensive and high-quality service**.

EXPERIENCE AND INNOVATION

QUALITY AND PUNCTUALITY

TAILOR-MADE



OIL & GAS



HYDROELECTRIC



MACHINE TOOL



RESEARCH



MARINE
AND UNDERWATER



RECYCLING
INDUSTRY



CHEMICAL



NUCLEAR



AEROSPACE



DEFENCE



METALLURGICAL



INDUSTRIAL
AUTOMATION

STEEL STRUCTURE

From the customer's design, supply of:

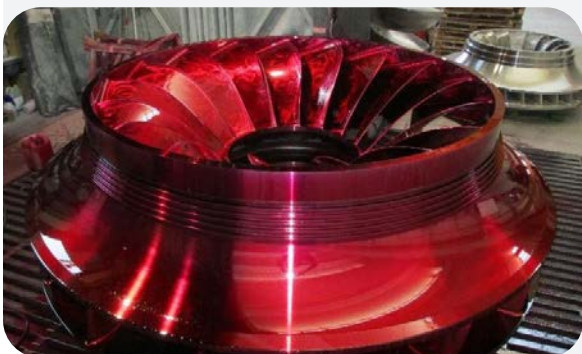
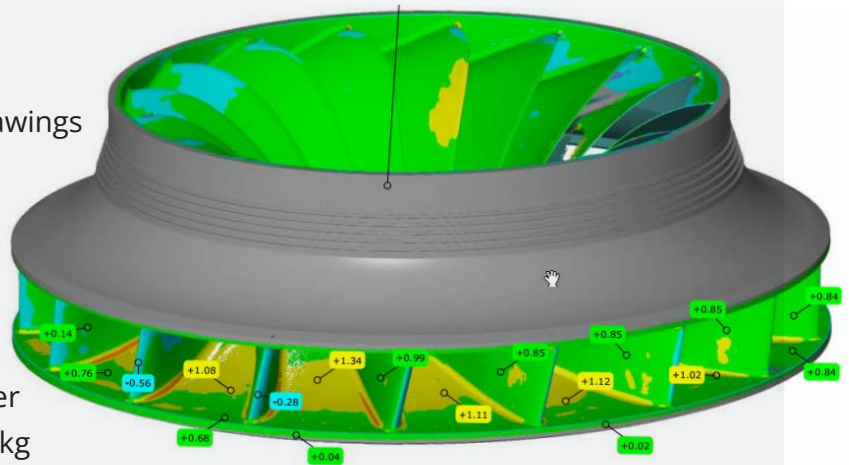
- Electrowelded structure made of tubes, plates, and oxy-cut parts
- Thermal stress relief and sandblasting
- Painting according to specifications
- Mechanical processing
- Small assembly
- Dimensional report with laser tracker



IMPELLER

Manufacturing according to customer drawings

- Material: GXCrNi13-4+QT1
- Turning and milling
- Grinding, polishing, and repairs
- NDT inspections
- Balance testing
- Dimensional report with Laser Tracker
- Diameter: 2600 mm — Weight: 6500 kg



STRATEGIC PARTNER FOR COMPLEX SOLUTIONS



SUPPLY



WELDING



SURFACE
TREATMENTS



HEAT/CHEMICAL
TREATMENTS



TURNING



MILLING



GRINDING



ASSEMBLY



TESTING



QUALITY CONTROL



DEEP DRILLING



LOGISTICS



EXPANDER SPINDLE

From the customer's design, supply of:

- 42CrMo4+QT forged and heat-treated material
- Deep hole drilling performed
- Turning and milling
- Grinding
- Post-grinding assembly of bushings
- Internal final turning processing
- Dimensional report

L=1650 mm

PROCESSED METALS

- STAINLESS STEEL
- AISI 316LN STEEL
- NITRONIC® STEEL
- ALLOY INCONEL®
- F44 254SMO®
- ALUMINIUM
- F51 DUPLEX
- ALLOY 80A NIMONIC®
- TITANIUM
- 17-4 PH - UNS S17400
- BRASS
- F55 SUPER DUPLEX
- HASTELLOY® C
- ALLOY 825 INCOLOY®
- MARAGING 250

CUSTOM MECHANICAL COMPONENTS FOR ASSEMBLY INTEGRATION

- AW5083 Aluminum component

We supply support parts upon customer request,
assembled into complete units.

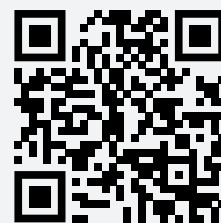
L=2200 mm
Thickness 40 mm



QUALITY IS NOT A MATTER OF OPINION



UNI EN ISO 9001:2015
UNI EN ISO 19443:2022



Control plan
Witnessed audits

Dimensional reports
ITP and MMP

CMM inspection
NDT inspections
(Non-Destructive Testing)

GESTIONE COMMESSE ITNS (ITEMS IMPORTANT TO NUCLEAR SAFETY)



METROLOGY

Metrology Room

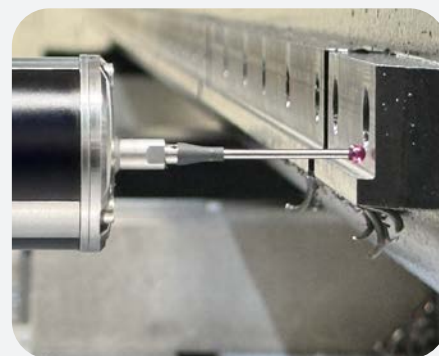
- Certified instrumentation
- API Radian Plus Laser Tracker
- Hexagon 3D Form Inspect software



TRACEABILITY

The entire manufacturing process of a component is traceable through:

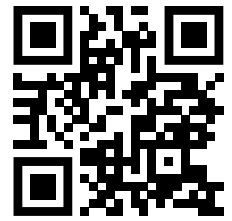
- Integrated IT system including ERP, MRP, and MES
- Technical planning and dimensional inspections
- Component marking



MACHINE MAINTENANCE

- Structured preventive maintenance protocol
- Periodic monitoring of machine geometry using API laser systems, followed by verification with a calibrated bar
- Upon request, certificates of conformity can be issued





Certification



UNI EN ISO 9001:2015
UNI EN ISO 19443:2022



European
Fusion Association

Legality Rating



ESG Score



Colben gives high worth to dialogue and to the **research of the ideal solution** for its clients, with every decision guided by **strong values**. We believe in **sustainability**, both environmental and social, investing in the **local community** and **future generations**.



Always a step ahead.

Colben is committed to obtaining ISO 45001 and MOG 231 certification by the end of 2027.

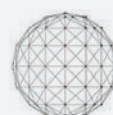
Download
our sustainability report



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We believe in territory, young talent and ideas for a better tomorrow!



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AVneetwork