IRTI S.R.L.



Industrial technology

COMPANY PRESENTATION

www.irtitech.it

Company presentation

IRTI S.R.L.

Industrial technology

REGISTERED OFFICE & HEADQUARTERS

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ISO 9001

Certified quality management system

Certification body: DNV

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Company

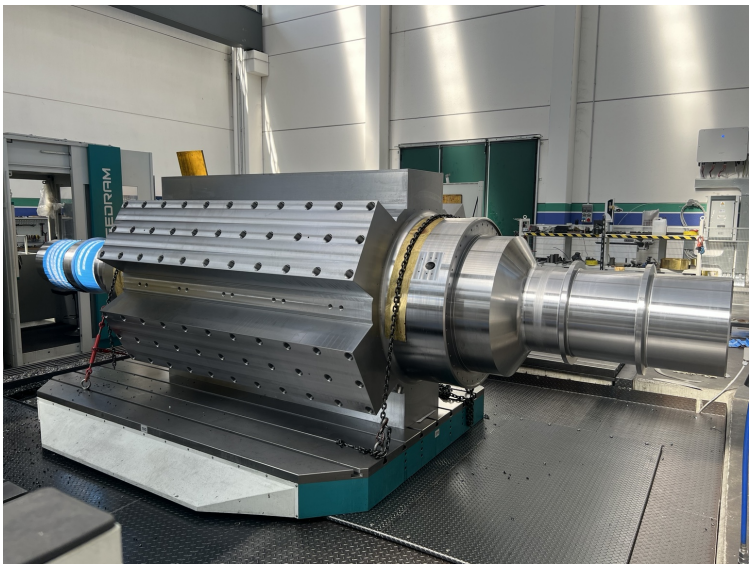
IRTI has specialised in CNC and conventional machining since 1985. Our extensive experience and proven working methods enable us to address a wide range of mechanical machining requirements.

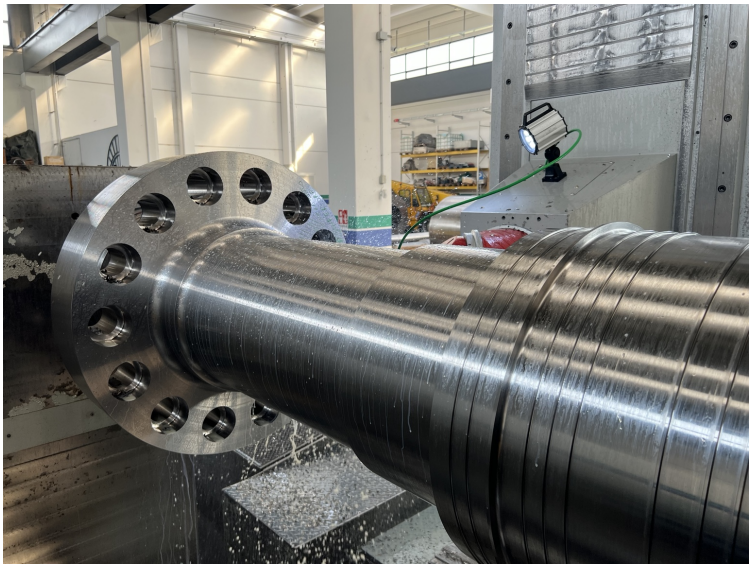
Our strengths

- The expertise and professionalism of our staff.
- Flexible production processes and a high degree of customisation.
- Experience in manufacturing components and supplying complete solutions across different sectors.

ISO 9001 certified quality management system







Workshop machinery

01–03 / TURNING, MILLING & BORING

01 / GIANA GGTRONIC3000

1 turning and milling machine

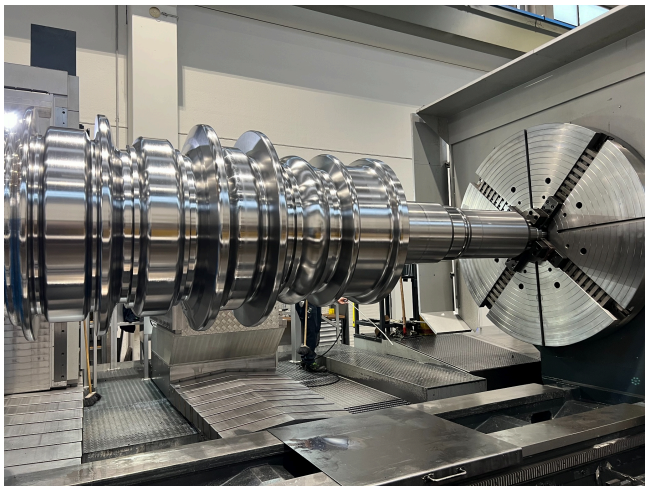
Max. turning diameter: 2,700 mm
Distance between centres: 20,000 mm
Milling Y-axis travel: +700 / −700 mm
Max. workpiece weight on tailstock: 120 t
Max. internal turning depth: 7,000 mm
Accuracy: ±0.01 mm | Precision: ±0.01 mm
Min. obtainable roughness: 0.3–0.4 µm



02 / CSF WH5

1 turning and milling machine

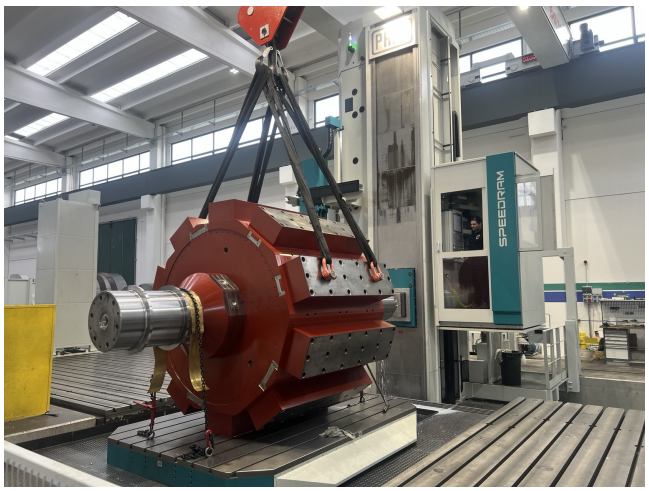
Max. turning diameter: 2,700 mm
Distance between centres: 12,000 mm
Bi-rotary milling head
Max. workpiece weight on tailstock: 120 t
Max. internal turning depth: 7,000 mm
Accuracy: ±0.01 mm | Precision: ±0.01 mm
Min. obtainable roughness: 0.3–0.4 µm



03 / PAMA SPEEDRAM

1 milling and boring machine

X travel: 15,000 mm | Y travel: 5,000 mm
Combined W + Z + V travel: 5,000 mm
Stolle floor plate capacity: 250 t
Indexing table: 3,500 × 2,500 mm / 70 t
Accuracy: ±0.01 mm | Precision: ±0.01 mm
Min. obtainable roughness: 0.3–0.4 µm
Optional: U-Tronic head UT 5-630S



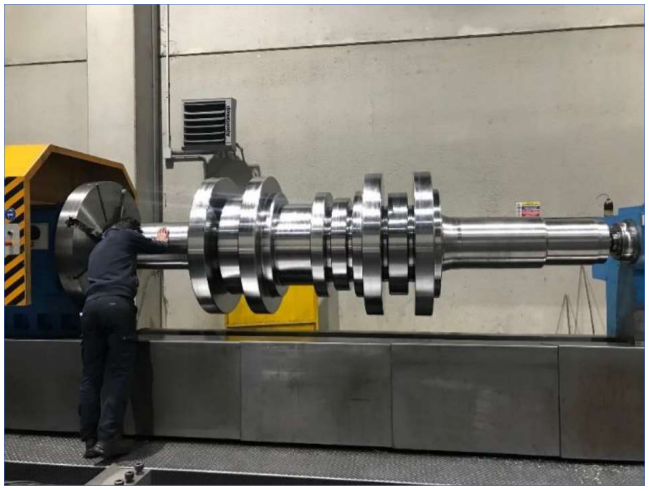
Workshop machinery

04–06 / TURNING, MILLING & BORING

04 / GIANA GGH1100

1 turning machine

Max. turning diameter: 1,600 mm
Distance between centres: 7,000 mm
Max. workpiece weight on tailstock: 25 t
Accuracy: ±0.01 mm | Precision: ±0.01 mm
Min. obtainable roughness: 0.3–0.4 µm



05 / CSF TR2

1 turning machine

Max. turning diameter: 600 mm
Distance between centres: 8,000 mm
Max. workpiece weight on tailstock: 10 t
Accuracy: ±0.02 mm | Precision: ±0.02 mm
Min. obtainable roughness: 0.3–0.4 µm



06 / PAMA SPEEDRAM

1 milling and boring machine

X travel: 10,000 mm | Y travel: 3,000 mm
Combined W + Z + V travel: 3,000 mm
Stolle floor plate capacity: 150 t
Indexing table: 2,000 × 2,000 mm / 25 t
Accuracy: ±0.01 mm | Precision: ±0.01 mm
Min. obtainable roughness: 0.3–0.4 µm



Workshop machinery

07–11 / MILLING, TURNING & LIFTING

07 / TIGER TMT-5RT

1 milling machine

X travel: 5,000 mm | Y travel: 1,200 mm
Z travel: 2,000 mm
Indexing table: 2,000 × 3,000 mm / 15 t
Accuracy: ±0.05 mm | Precision: ±0.05 mm
Min. obtainable roughness: 1.0–1.6 µm



08 / CNC GMG

1 turning machine

Distance between centres: 3,000 mm
Max. turning diameter: 570 mm
Accuracy: ±0.02 mm | Precision: ±0.02 mm
Min. obtainable roughness: 0.8–1.0 µm



09–10 / OMIS CRANES

2 cranes — capacity 60 t
Up to 120 t with lifting beam.
1 crane — capacity 10 t



11 / OCMA 80 t

1 overhead crane

Lifting capacity: 80 t



Metrology & CAD/CAM



LASER MEASUREMENT

Leica Absolute Tracker AT960

Accuracy: ±0.002 mm

Precision: ±0.003 mm

CAM

Edgecam 2020 R1

3-axis and 5-axis machining

CAD

Solidworks 2022

Case history

EXAMPLES OF COMPLETED PROJECTS



STEEL INDUSTRY

Four-thread screw and matching brass nut



STEEL INDUSTRY

Forge press column



ENERGY

Kaplan turbine shaft for a hydroelectric plant

Case history



HYDRAULICS

Piston rods with eye ball joints



STEEL INDUSTRY

Four-thread brass nut



MARINE

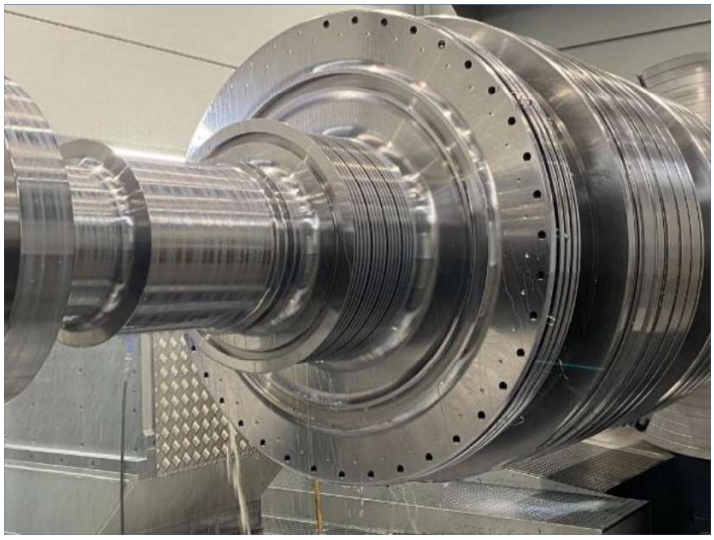
Propeller holder

Case history



HYDROPOWER

Main turbine shaft



MARINE

Gas turbine shaft for an icebreaker



PLASTIC EXTRUSION

Tank for plastic extrusion



MARINE

Main shaft

Case history



HYDRAULICS

End plug for a hydraulic cylinder

Bore Ø800 mm



HYDRAULICS Piston rod for a hydraulic cylinder