

A glowing orange metal part is being forged in a large industrial machine. The machine is blue and has several vertical columns. The glowing part is in the center, and the machine is surrounded by various pipes and structural elements. The background is dark, and the lighting is focused on the glowing part.

ff friulforgia
T.T.N. GROUP

We shape your world





T.T.N. GROUP

600 employees

110 mln € turnover

9 Production sites

Privately held company



80 Employees

30 mln € turnover

66.000 m² total

12.000 m² covered

OPEN DIE FORGING

- SHAFTS
- ROLLS
- DISCS
- WHEELS
- BUSHES
- BLOCKS
- PIPES



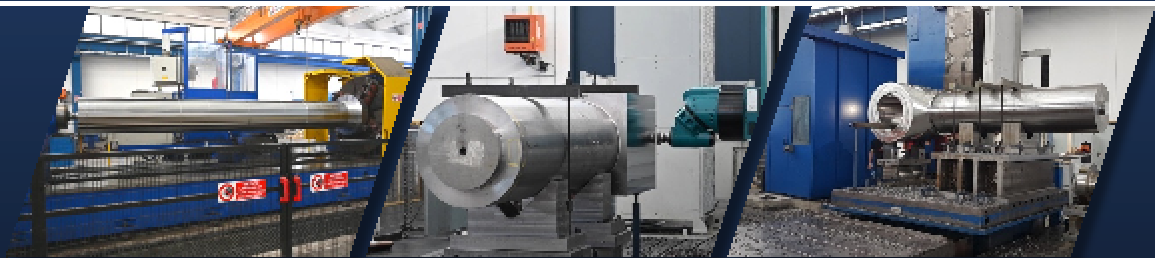
HEAT TREATMENTS

- MASSIVE H.T.
- VERTICAL H.T.
- GAS AND PLASMA NITRIDING
- CARBURISING
- INDUCTION HARDENING
- VACUUM H.T.



MACHINING

- HORIZONTAL LATHE TURNING
- VERTICAL LATHE TURNING
- MILLING
- DEEP BORE DRILLING
- HONING
- 3D MEASURING



ASSEMBLY

- WELDING
- SHRINK FITTING
- SAND BLASTING
- PAINTING



FORGING RANGE



SIZE

Max. weight	35.000 Kg
Max. length	14 m
Max. diameter	2.500 mm

MATERIALS

Carbon steel	Alloy steel
Stainless steel	Tool steel
Duplex	Super Duplex

EQUIPMENT:

- 1 x 25 MN open die press
- 1 x 38 MN open die press



MASSIVE - SURFACE - THERMOCHEMICAL

Normalising

Quenching (water, oil, polymer, salt)

Tempering

Annealing

Vertical HT

Vacuum HT

Carburising

Gas and plasma nitriding

Case hardening

Induction hardening



VERTICAL TURNING



MACHINE	MAX. Ø	MAX. LENGTH	MAX. WEIGHT
TITAN SC-22	2.200 mm	1.500 mm	15.000 Kg
TITAN SC-27	2.700 mm	1.600 mm	18.000 Kg

HORIZONTAL TURNING



MACHINE	MAX. Ø	MAX. LENGTH	MAX. WEIGHT
POREBA	830 mm	6.000 mm	20.000 Kg
KRAMATORSK	790 mm	8.000 mm	20.000 Kg
WAGNER	1.600 mm	15.500 mm	30.000 Kg
KRAMATORSK	1.650 mm	8.000 mm	30.000 Kg

MILLING



MACHINE	X AXIS	Y AXIS	Z AXIS	MAX. WEIGHT
PAMA	13.000 mm	4.500 mm	1.200 mm	80.000 Kg
RAMBAUDI	4.000 mm	2.000 mm	1.500 mm	30.000 Kg

VERTICAL TURNING



MACHINE	MAX. Ø	MAX. HEIGHT	MAX. WEIGHT
PIETRO CARNAGHI	3.600 mm	3.500 mm	40.000 Kg

HORIZONTAL TURNING



MACHINE	MAX. Ø	MAX. LENGTH	MAX. WEIGHT
TACCHI MULTITASKING	2.400 mm	20.000 mm	60.000 Kg
SAFOP	1.600 mm	10.000 mm	20.000 Kg

MILLING



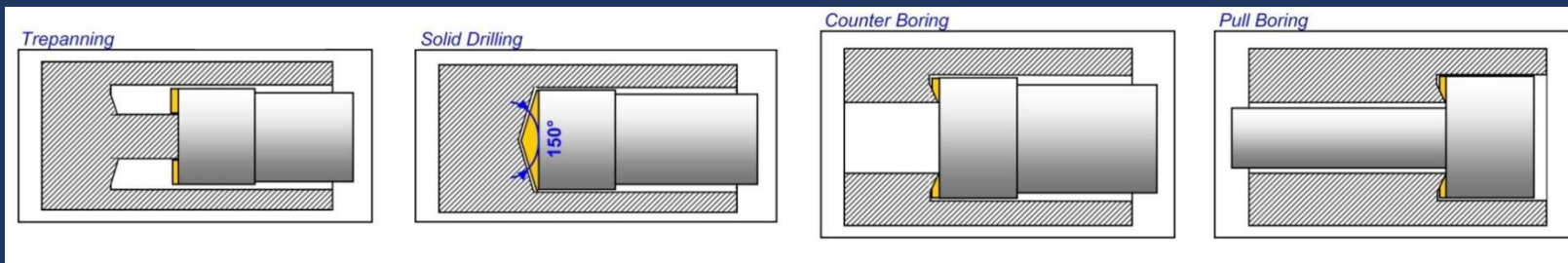
MACHINE	X AXIS	Y AXIS	Z AXIS	MAX. WEIGHT
PAMA SPEEDRAM	12.000 mm	4.000 mm	1.500 mm	25.000 Kg
SCHARMANN	15.000 mm	3.500 mm	1.000 mm	40.000 Kg

DRILLING



ACTIVITY	Ø RANGE	LENGTH RANGE	MAX. OUTER Ø
DRILLING	27 ÷ 910 mm	700 ÷ 25.000 mm	1.700 mm
HONING	27 ÷ 650 mm	380 ÷ 12.000 mm	800 mm

DRILLING METHODS



3D MEASURING



MACHINE	MAX. WIDTH	MAX. HEIGHT	MAX. LENGTH
POLI CMM	2.000 mm	1.500 mm	6.000 mm

WELDING - SHRINK FITTING
SAND BLASTING - PAINTING

Barrels

Pump casings

Turbine shafts

Propeller shafts

Rotary kiln support rollers

Crane hook rods

Special products



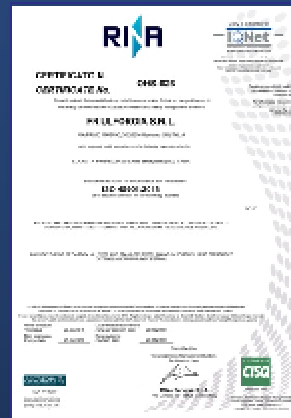
ISO 9001



ISO 14001



ISO 45001



DNV-GL



ABS



TÜV



BV



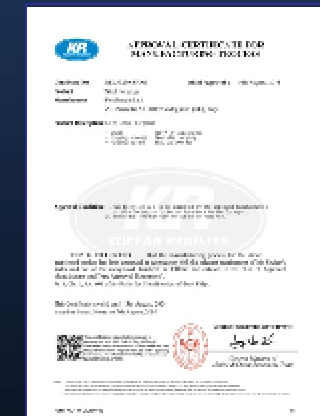
LLOYD'S R.



NIPPON K.K.



KOREAN R.



MAIN MARKETS



Marine



Hydro



Oil & Gas



Offshore
&
Subsea



MAIN MARKETS



Metallurgy



Gearboxes



Power Generation



Pulp & Paper





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