

Jobson
I T A L I A



A.Santamaria



PEDROTEC

*Industrial and Marine High-Tec Center
Mechanical Repairs & Reconditioning
Pressure Vessels Construction
Electrical Machines Rehabilitation, Inspections and Diagnostic
Technical Materials and Logistic Support*



Genova - La Spezia
Italy



Jobson Italia srl was set up in 1990.

The following services are rendered 365 days a year, 24 hours a day:

Stocking and trading of spare parts

Main Engines, auxiliary engines, pumps, compressors, purifiers and separators.

European and Asian origin.

Reconditioning of two and four stroke engine components

Cylinder heads, piston crowns, exhaust valves and exhaust valve seats.

The reconditioning process is carried out in our workshop and certified by major Class Registers.

Manufacturing and repairs of pressure vessels

Firetube boilers.

Watertube boilers.

All our welding procedures as well as checking of hull alignment prior and after installation are all Class certified.

Manufacturing of aluminium stabilizers

Design, manufacturing and installation.

All our welding procedures as well as checking of hull alignment prior and after installation are all Class certified.

Port stay maintenance repairs and riding gangs

Mechanical, steel work, piping, hydraulic repairs. Ultrasonic cleaning of charge air coolers and filters (heated tank dimensions: 3000x2000x1800 mm).

Overhauling of generators with riding squads.

Grinding in-situ, boring in-situ, laser alignment

Machining of two stroke and four stroke bearing pockets (main bearings, camshaft bearing pockets) and cylinder liner frames.

Grinding in-situ of main journal pins and connecting rod pins.

Shaft alignments.



Pedrotec Srl was established in 1947, as Pedrotti Bros. to provide technical materials to merchant ships calling port of La Spezia.

During 1980 company was enlarged extending attention to foreign markets with appointment of several Agents around world (North Europe, U.S.A., Middle East and Japan), trade name becoming Pedrotti Ltd, and also started ship repairs division.



Following this activity on International Markets, during 1990 was splitted the pure technical section, passing the activity to newly born Jobson Italia, with final change of trading name in Pedrotec Ltd.

In particular Pedrotec was concentrating and developing technical ships supply activity as well as shipyards installations, together with Power Plants spare parts, Engines and Turbines overhauling, and Special Package design and installation.



As Italian Agents of Messrs Thordon Bearings, Pedrotec was able to obtain approvals and orders for "water lubricated" propeller shaft bearings for the largest Fincantieri Cruise Ships and for all Italian Navy new buildings.



Reconditioning of two and four stroke engine components

Piston crowns

During years we have developed and improved different reconditioning procedures for each type of piston crown focusing our attention on the points that mainly affect crown reliability.

After accurate cleaning and sandblasting piston crowns are carefully checked in their weak points.

Our full reconditioning procedures bring the item back to its original efficiency.

Cylinder covers

Our full reconditioning procedures have been developed in order to bring cylinder covers back to their original functionality and reliability.

Basically in order to obtain a reconditioned cylinder cover with a reliability comparable to brand new ones it is necessary to remove all failure reasons:

Cracking from cooling bores.

Cracking from fuel valves, starting air valve, relief valve and indicator valve.

Erosion in the area adjacent to fuel valves.

Leakages from sealing rings.

Exhaust valves

We have developed procedures for reconditioning of exhaust valve cages, spindles and seats.

Exhaust valve spindle, due to its dynamic functioning together with the high temperature it is exposed to, is one of mainly stressed components of an engine.

Our procedures of inspection and reconditioning have been developed to provide the maximum quality to our product for both Nimonic and stainless steel plus Stellite valves.

Nimonic Valves.

Nimonic Valves are regenerated overlaying machined surface with inconel 625 by MIG process or by Cold Wire Plasma Welding.

Diesel power plants

Overhauling and rehabilitation of Diesel units:

- Sulzer
- GMT
- MAN
- B&W
- Pielstick
- Deutz

Al Hali P.S. (R.O.Y.) 3x4 MW units. Overhauling with crankshaft substitution and General maintenance and rehabilitation (year 2005).



Manufacturing and repairs of pressure vessels

Firetube boilers.

Watertube boilers.

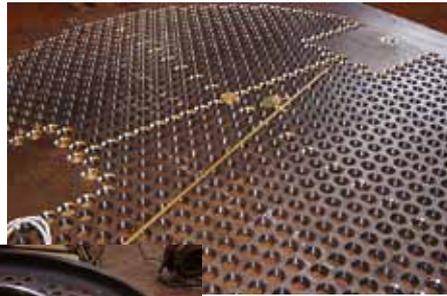
Heat exchangers in general

Turbochargers overhauling

Maintenance on board.

Overhauling of turbochargers rotors in our workshop including dynamic balancing.

Repair of inlet and outlet casings.



Port stay maintenance repairs and riding gangs. Drydocking projects

Grinding in-situ, boring in-situ, laser alignment

Machining of two stroke and four stroke bearing pockets (main bearings, camshaft bearing pockets) and cylinder liner frames.

Grinding in-situ of main journal pins and connecting rod pins.

Shaft alignments.

Mechanical, steel work, piping, hydraulic repairs. Ultrasonic cleaning of charge air coolers and filters (heated tank dimensions: 3000x2000x1800 mm).

Overhauling of generators with riding squads.



Ultrasonic cleaning

Two ultrasonic tanks 3600x2000x2000 mm.

One high pressure chemical washing tank.

Overhauling and manufacturing of two and four stroke diesel engines charge air coolers.

Overhauling of oil and fuel filters.



Krankshaft and shaft machining

Shottel workshop

Hydraulics workshop

Agreement/Partnership with:

Cantieri navali del Mediterraneo - Naples

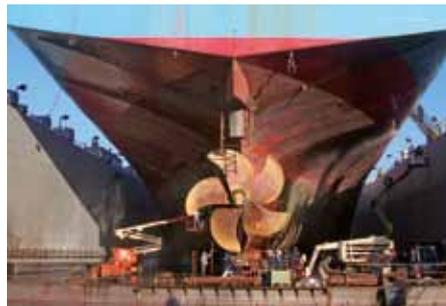
- Graving dock 115x16 mtrs
- Graving dock 206x21 mtrs
- Graving dock 335x40 mtrs

Gestione bacini La Spezia

Floating dock 280x42 mtrs

Gestione bacini Livorno

Floating dock 190x28 mtrs





**RAS KATENIB P.S. (R.O.Y.)
5X30 MW Steam Turbine
Ansaldo/Breda**

Design, Construction, Installation and Commissioning of: 1x250 T/Day production, Sea Water R.O. Desalination Plant.

1x40' + 1x20' Insulated Containers with External Filters.



Design, Construction, Installation and Commissioning of: Sea Water Electrochlorination Plant. 2x22 Kgs/ h Pure Chlorine Production.



Design, Construction, Installation and Commissioning of: 1x645.000 Frg/Hour R134A Chiller Unit.

Air Heater Ljungstrom HRX 22 - New Baskets and Rotor construction.



**AL MUCKA P.S. (R.O.Y.)
4x40 MW Steam Turbine
Ansaldo Wagner Biro**

Design of Chiller Unit R134A.

Air Heater Ljungstrom Spare baskets constructions and supply.



**AL HALI P.S. (R.O.Y.)
3x4 MW Diesel Ansaldo/GMT**

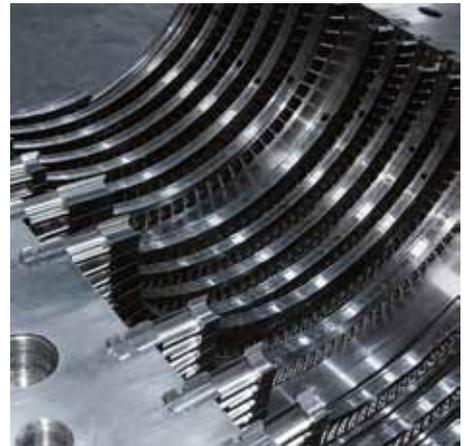
Unit one and two complete overhauling, with new crankshaft supply and installation, with final unit commissioning.



Steam Turbines and Alternators. Spare parts and Components

Wide range of spares and components are produced according to original specifications, applicable for:

- Valves and servomotors
- Hot and cold Turbine sections
- Nozzle plates
- Oil pumps
- Intermediate rings
- Main stop valve and valve seat



Stocking and trading of marine and industrial spare parts



THORDON Bearings

Water lubricated propeller shaft
Rudder bearings

Marine fenders

Yokohama Type

Pneumatic rubber fenders

Marine Fenders International

Foam filled floating fenders
Donut rotating fenders

Dolphin fenders

Cylindrical hollow rubber fenders
Platform and modular fenders



Steel wire ropes

Galvanized non rotating steel wire ropes
Compacted steel wire ropes
Special purposes steel wire ropes



Mooring syntetic ropes

Combined fibre ropes
Polyester/HT Polipropilen 8, 12 and 24 strands
HT Polypropilen 8 strands and Winch Line (Atlas) 6 strands ropes



Diesel engines

Daiatsu - GMT FIAT - Caterpillar
MAN/B&W

Compressors

Sperre - Tanabe - Yanmar - Hatlapa
Hamworthy - Sabroe - York - Carrier

Pumps

Thune Eureka - Shinkokinzoku
Naniwa - Heishin - Hamworthy
Taiko Kikai - Teikoku - JMW

Purifiers

Alfa Laval - Mitsubishi

Filters

Boll and Kirch



Global control for pressure, temperature and fluids

Danfoss

Electrovalves
Thermostatic & Pneumatic valves
Pressure switches
Pressure sensors
Thermo switches



Sika

Precision dial
Precision Bimetal dial
Thermometers
Pressure calibrators
Industrial thermometers
Temperature sensors and Industrial thermometers with analog output (Kombitemp)



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