Goltens China
Shanghai . Guangzhou . Dalian

Goltens China - Servicing Marine, Industrial, Offshore and Stationary power customers
Goltens in China is headquartered in Shanghai, with a workshop in Guangzhou and a sales office in Dalian.

Goltens China Co., Ltd. Has a wide range of services, including in-situ machining, troubleshooting, overhaul and repairs of a variety of marine and landbased equipment systems, as well as reconditioning of diesel engines, mechanical, electrical and electronic components.

In-Situ Machining Service
- Machining of crankshaft in-situ or in workshop;
- Line boring of engine bedplates/blocks in-situ or in workshop;
- Laser Alignment of surface flatness, machinery and couplings including chockfastening;
- Annealing/Heat Treatment of hardened shafts/journals;
- Checking of machinery after realignment;
- Large scale flange facing and other surface machining and milling;
- Machining of stern tunnel or rudderstock tunnel;
- Boring of all sizes coupling holes include tape holes;
- In-situ honing of liners.

Overhaul and Repair Services
- Main and auxiliary diesel engines;
- Gas engine
- Steam turbines;
- Main propellers and tunnel thrusters;
- Deck machinery, winches, cranes, etc.
- Hydraulic systems;
- Electrical systems;
- Electric Motors / Generators (Rewinding)
- BWT Scanning, Commissioning and Retrofit

Reconditioning Service
- Fuel injectors, nozzles, valves, pumps and timing;
- Centrifugal casting of White Metal Bearing & Stern tubes;
- Connecting rod;
- Exhaust valve spindle, seats and cages;
- Cylinder liner; heads and covers
- Piston crowns and skirt;
- Cylinder head/ covers;
- Heat exchangers;
- Cargo & Service pumps;

Authorized Sales/Service Agents for:
- Mitsubishi UEC engines;
- HHI-EMD Engine & Machinery;
- YANMAR Authorized Service Station;
- STX engine, VDR;
- CSSC Marine power engine spare and service;
- Anqing CSSC Diesel Engine spares
- Aker Solution (Hydraulic Deck Machinery & Steering Gear);
- Marine Aluminium A/S (Helidecks, Gangways & Railings);
- YOOWON (Steering Gear);
- FINETEC (Insulation);
- HYUNDAI (Elevator);
- ARM (Deck Machinery);
- TAEWOONG (Shaft);
- ITW Polymer Technologies (Chockfast).
- WENCON material (Emergency Repair);

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Trading and Supply of
- Goltens G-Pump;
- Goltens Test Unit for fuel valves;
- 2 & 4 Stroke Diesel Engines spare parts;
- Turbocharger parts;
- Secondhand/Reconditioned Engine Spare Parts
- OEM Manufactured Bearings
- Gas engine spare parts
Crankshaft/ Journal Grinding

Goltens Advantages

Over the past 60 years, we have applied our tooling and expertise to recondition over 25,000 crankshafts worldwide, as well as countless other rotating journals and shafting.

As the first company in the world to complete in-place crankshaft grinding in the early 1950s, Goltens’ tooling patents revolutionized the industry with massive reductions in downtime for owners.

Continuous R&D and field trials have given us the best tooling for crankshaft/ journal machining in the industry. This allows us to perform large-scale jobs in a fraction of the time of traditional grinding, often with a single cut fillet to fillet with the highest tolerances. We apply our technology to challenges in the marine, industrial, stationary power and offshore sectors.

We repair damaged journals on any and all manner of rotating equipment including compressors, turbines and other shafts.

New tool removes these concerns with:

- **Less Redundancy.**
  Only one tool is needed for grinding, milling or turning.

- **Simpler Repair Management.**
  Depending on the engine type and the extent of damage, Goltens can choose the best possible method for repair.

- **Less Repair Time.**
  Proven on board, the new generation tools reduce the repair time for a large crankshaft with more than 50
Over the past 5 years, Goltens stations around the world have successfully annealed over 75 crankshafts, saving customers tens of millions of dollars in unnecessary crankshaft purchases, major engine rebuilds, as well as countless days of lost operational capacity.

Loss of a crankshaft or any rotating shaft due to high hardness values is a costly, time consuming, and extremely disruptive occurrence. As the market leader in In-Situ crankshaft repairs, we encounter many crankshafts with areas of excessive hardness each year.

Excessive hardness can often be machined away by Goltens’ In-Situ teams, provided that there is sufficient remaining material to remain within manufacturer’s maximum allowable undersize. However, when this is not possible, the only remaining options are either to scrap the crankshaft, or remove hardness by annealing.

Over the years, we have refined our process for annealing crankshafts and other shafting, and can do this successfully in-place as well as in our workshops around the world. Our deep understanding of the metallurgy, expansion characteristics, and safety Precautions, has been developed and refined over the years, to create a safe, repeatable, highly controlled process.

We have repeatedly demonstrated that hardness can be successfully removed and that minor finish grinding/cutting can restore the machinery to service with significantly less loss of shaft diameter, as well as the avoidance of costly shaft/equipment removal, and the purchase of a replacement crankshaft.

Class Approval

- Goltens has undertaken extensive workshop trials with Class Society and select OEM involvement and subsequent metallurgical analysis to demonstrate the results of the process.
- Goltens has received job specific approvals for In-situ annealing of marine crankshafts from several Class Societies.

Goltens Advantages

- Comprehensive capability to handle all aspects of hardness treatment inclusive of engine preparation, inspection, pre-Machining, hardness removal and finish machining as well as engine reassembly
- A large, global team of highly skilled In-Situ technicians to ensure a rapid, expert response anytime and anywhere
- Extensive experience successfully annealing crankshafts across a broad array of makes and models of engines and rotating machinery
- Globally deployed and available portable annealing equipment for In-Situ application

Partial List of Crankshafts successfully annealed:

- BERGEN B& M
- DEUTZ 12M640
- GMT 420.12
- MAK 453
- MAY 6M553C
- MAK 8M19
- MAK 8M32
- MAN B&W 10/V52/55A
- MAN B&W 12V52/55
- MAN B&W 14V40/45A
- MAN B&W 16V40/54
- MAN B&W 23/30
- MAN B&W 28/33
- MAN B&W 28LH
- MAN B&W 40/54A
- MAN B&W 7L40/45
- MAN B&W 8L23/30
- MAN B&W 8L32/40
- MAN B&W 9L28/32
- MAN B&W 9L40/54
- MAN B&W V94 40/54
- MAN B&W 16L28LH
- MIRLES 16K MAJOR MK II
- MIRLES 16K MAJOR
- MITSUBISHI MH 16KU
- NIIGATA 16V32 CLX
- NIIGATA 32CX
- PIESTICK 12VPCI
- PIESTICK 14VPC4
- PIESTICK PC2
- ROLLS ROYCE B-TYPE
- SULZER 12ZV40/48
- SULZER 16ZAV405
- SULZER 24R
- SULZER 25/30
- WARTSILA 18V46B
- WARTSILA 48R32
- WARTSILA 9R32
- WARTSILA 6R32
- SKL VDS 26/20
- STORK WERKSPoor
- 280/8
- 2TM 410
- 2TM 640
- 8TM 240
- 12LZ 3050
- 24LZ 3050
- 32LZ 3050
- 56LZ 3050
- 88LZ 3050
- 116LZ 3050
- 152LZ 3050
- 200LZ 3050
- 288LZ 3050
- 280/8
- 280/8
Line Boring
Large Surface Machining

IN-SITU MACHINING SERVICE

Line Boring:
Not all shaft failures can be easily corrected by machining or grinding. Sometimes the damage is so severe that the engine pockets have been damaged and the engine requires line boring. We have invested heavily over the past decade to enhance and refine our world-class line boring tools for use in all single and multiple in-line boring applications across industry lines.

Stern Tubes:
Whether your repair is casualty related or part of a routine overhaul or maintenance interval, Goltens can mobilize the technicians and specialized tooling to bore tail shafts of any dimension and length. Ship owners and shipyards around the globe engage us for this precision machining job because of our tailored tooling and consistently excellent results.

Large Flange Facing and Surface Machining

Goltens’ in-place machining capability eliminates the logistical and cost-related issues that go along with repairs and major replacements on any large equipment that is not easily moved. We can mobilize a wide range of equipment to your site, ensuring that it is operational as soon as possible.
Laser Alignment provides a quicker and more accurate alignment.

Goltens’ in-situ technicians have broad expertise using our state-of-the-art laser alignment tools. Goltens utilizes these techniques on a daily basis in conjunction with the performance of its other in-place machining services, and it is this repeated high tolerance usage that makes our technicians among the best in the world.

Goltens also offers these services on a stand-alone basis to support a wide variety of troubleshooting and alignment issues encountered by customers who are diagnosing cause of failure, installing new equipment or reinstalling repaired equipment or simply suspect their equipment is out of alignment.

Advantage:

• Able to carry out alignment checks in confined spaces
• Minimum setup time
• No requirement for additional features
• Accuracy of up to 0.001mm
• Computerized alignment report analysis
• Reduces bearing and seal damage
• Minimum energy loss
• Cuts production down time
• Reduces vibration

Type of Alignments:

• Shaft alignment, horizontal and vertical machinery
• Cardan shafts alignment
• Alignment of bearing pockets and diaphragms
• Straightness & flatness
• Pulley alignment
• Shim
• Machine Train Alignment
General In-Situ/On Site Machining

Goltens’ culture as a precision tool maker and its constant investment in capital machinery and personnel related to In Situ machining has made its stations around the globe capable of handling almost any specialized machining job.

If we don’t have the proper tool for your special, one of a kind requirement, chances are we can build it. Services commonly provided by Goltens teams include: milling, machining, boring, grinding, honing, drilling and super finishing.
Diesel Engine repairs and maintenance is the core service of Goltens Shanghai. Routine maintenance, trouble shooting and repairs of main and auxiliary engines is our specialty.

Supported by our specialists and departments for crankshaft grinding, laser alignment, line boring, fuel equipment, rebabbitting, precision machining and spare parts supply, it makes Goltens Shanghai a one-stop diesel engine service centre.

Advantage:

- Expertise in repair, reconditioning and replacement of damaged or worn out parts.
- Library of drawings and manuals for a large range of engines.
- Constant up-date through continuous liaison with manufacturers.
- Skilled personnel-engineers and mechanics with shipyard and sea going experience; technicians trained at the manufacturers’ factories for quick trouble shooting and problem solving.

Goltens China

- Fully equipped workshop with lathes, milling machines, horizontal, vertical and radial boring machines, valve grinding machines, metal spray equipment and several custom built machines for reconditioning of engine part.
- Management and technical know-how to ensure correct decisions and consistent quality.
- Reconditioning of engine parts and production of replacement parts done in-house.
More than 30 years ago, Goltens designed the hydraulic centrifugal babbitting machine. Since then, we have rebabbitted over 100,000 of bearings and stern tubes.
Fuel Equipment

Hydraulic System

GOLTENS SHANGHAI
- Fully equipped workshop with special equipment for diagnosis, repair and testing
- Trained specialists and technicians
- Original drawings on file
- Spare parts in stock

Hydraulic System

The use of hydraulics as a power medium is widespread throughout many different industries.

Hydraulic dep. cover all aspects of repair, reconditioning, services and maintenance of marine, oil & gas and industrial installations.

Goltens Offers Trouble shooting & Repairs of all kinds of:
- Electro Hydraulic Cranes
- Towing Winches
- Mooring Winches
- Anchor Windlass
- Thruster (Electric & Diesel Driven)
- Tank Control System
- Cargo Grabs
- Steering Gears

Fuel Equipment

With rising bunker prices and enforced air pollution acts, the demand for well maintained fuel injection equipment is ever increasing.

Goltens Shanghai capabilities within injection equipment requiring the finest tolerances has been documented through several generation.
Governor

Turbocharger

The standard overhaul of a turbocharger consist of opening up, cleaning the rotor, ash blasting, repair and balancing.

We overhaul all types of turbochargers and supply top quality high performance spare parts. Our service include complete turbocharger overhaul in our workshop and afloat including rotor balancing in-situ.

Governors

Goltens have fully equipped workshops capable of the following on most types of governors:

- Testing, repair & overhaul
- Full reconditioning

Parts that generally needs attention:

- Governors from main engines/ Auxiliary engines
- Governors for Cargo Turbines
- Governors for Auxiliary Turbines
Goltens offers a range of high-quality epoxy-based repair compounds and coatings, as well as pipe and exhaust repair products suitable for a wide range of applications.

To keep usage at a minimum and ensure value for money, Wencon provides only a few products that cover a wide range of repairs.

Using the Wencon Repair System, you can do repairs and maintenance jobs everywhere on your vessel. Plastic steel has the advantage that it cannot corrode, you can apply it anywhere and after curing it can be machined just like metal.

All the products are top quality and have a high specific volume and simple mixing ratio (1:1 and 1:2). All Wencon standard products have an excellent adhesion to all materials, except soft plastic.
We specifically offer:

- Goltens Manufactured Fuel Injection Equipment
- OEM Manufactured Spare Parts
- 2nd-hand Spare parts

Stockiest of Genuine/OEM Japanese & European made spare parts:

- OEM Manufactured Bearings: Standard/ Oversize/ Undersize
- Diesel Engine Bearings: MIBA, GLACIER, BHW
- Purifiers: Alfa laval, Mitsubishi
- Turbochargers: Napier, A.B.B., B.B.C.

Goltens G-Pump ------ G1400/G2800
Co-operation Service With:

Engine Maker:
- Mitsubishi UEC engines;
- HHI-EMD Engine & Machinery;
- YANMAR Authorized Service Station;
- STX engine, VDR;
- CSSC Marine power engine spare and service
- Anqing CSSC Diesel Engine spares and service

Shipyard:
- Shanghai Shipyard
- Yiulian Dockyard