

Piston Crowns – 4-Stroke Engines STI Reconditioning Service

Leading engine manufacturers and their licensees are amongst the customers served by STI Group. They benefit from the year long experience in the development of customized surface solutions for power plants, stationary engines, cruise ships, vessels and bulkers. STI Group's range of services includes hard chromium plating and grinding the ring grooves of new piston crowns and those requiring reconditioning as well as the coating of piston rings, piston skirts, cylinder liners, turbo charger shafts, crank shafts, valves and other components.

Highly functional, cost-effective surface solutions

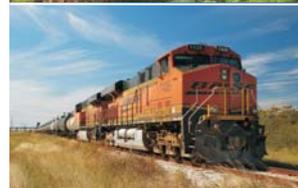
In order to meet the high functional and economical requirements of the shipping and power plant industry, STI Group has developed an innovative coating system for the grooves of piston crowns and the associated piston rings of large diesel engines. The coating system provides maximum wear protection and is suitable for both new piston crowns as well as those that have not been coated or have been coated and require overhaul.

Controlled parameters, reproducible results

At STI Group, best available technology backs up every single step of the process. Starting with customer oriented R&D, extensive entrance analyses, optimized devices and masking technology, comprehensive control of the processes and electrolytes, grinding up to 3-D measuring techniques, every parameter of the process is held within tight and reproducible limits. The highly modern processing centre guarantees maximum efficiency and short throughput times. Being ISO 9001 and 14001 as well as GL (Germanischer Lloyd) certified, STI Group complies not only with highest quality standards but also with principles of sustainable development and ecological responsibility.

All types of 4-Stroke Piston Crowns

- Dimensions Ø 200 – 580 mm
- Cleaning
- Dechroming
- Cracktesting (red-white)
- Entrance inspection
- Rework of landing surface (type dependent)
- Pre-grinding of ring grooves
- Hard chrome plating (rotation process)
- Final grinding of ring grooves
- Final inspection, incl. report
- Reconditioning up to original dimensions
- Final layer thickness up to 0.6 mm - higher thickness on request
- Minimal ring groove dimension 4 mm
- Germanischer Lloyd approval on request
- Delivery time approx. 3 - 4 weeks after arrival, depending on lot-size and type



Your benefits

- maximum cost-effectiveness
- extended life time
- optimized functionality
- short lead times
- 7/24 h express service on request

