

CLADDED EXHAUST VALVES



QuantiServ offers reconditioned exhaust valves for low-speed two-stroke engines, which have an even longer lifetime than new ones. The innovation was made possible with the introduction of advanced welding technologies.

RECONDITIONING REVOLUTION

Reconditioning has become the most popular solution for replacing worn out exhaust valves.

This was made possible because QuantiServ was in a position to offer them in an as new quality.

The continuous development of advanced technologies brought this to the next level.

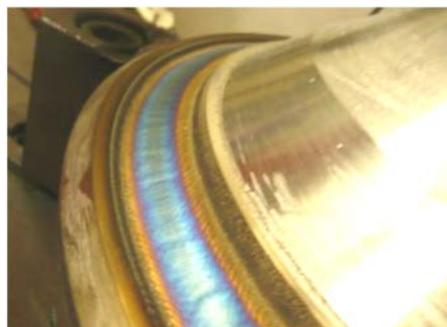
Special robotized procedures enable the welds on the surface layer of valve discs, which even exceeds the durability of the original.

This provides a replacement possibility, which is not only

significantly more cost-efficient than new parts, but also better!

HIGH WEAR ON VALVES

The exposure to corrosive exhaust gases often leads to hot corrosion,



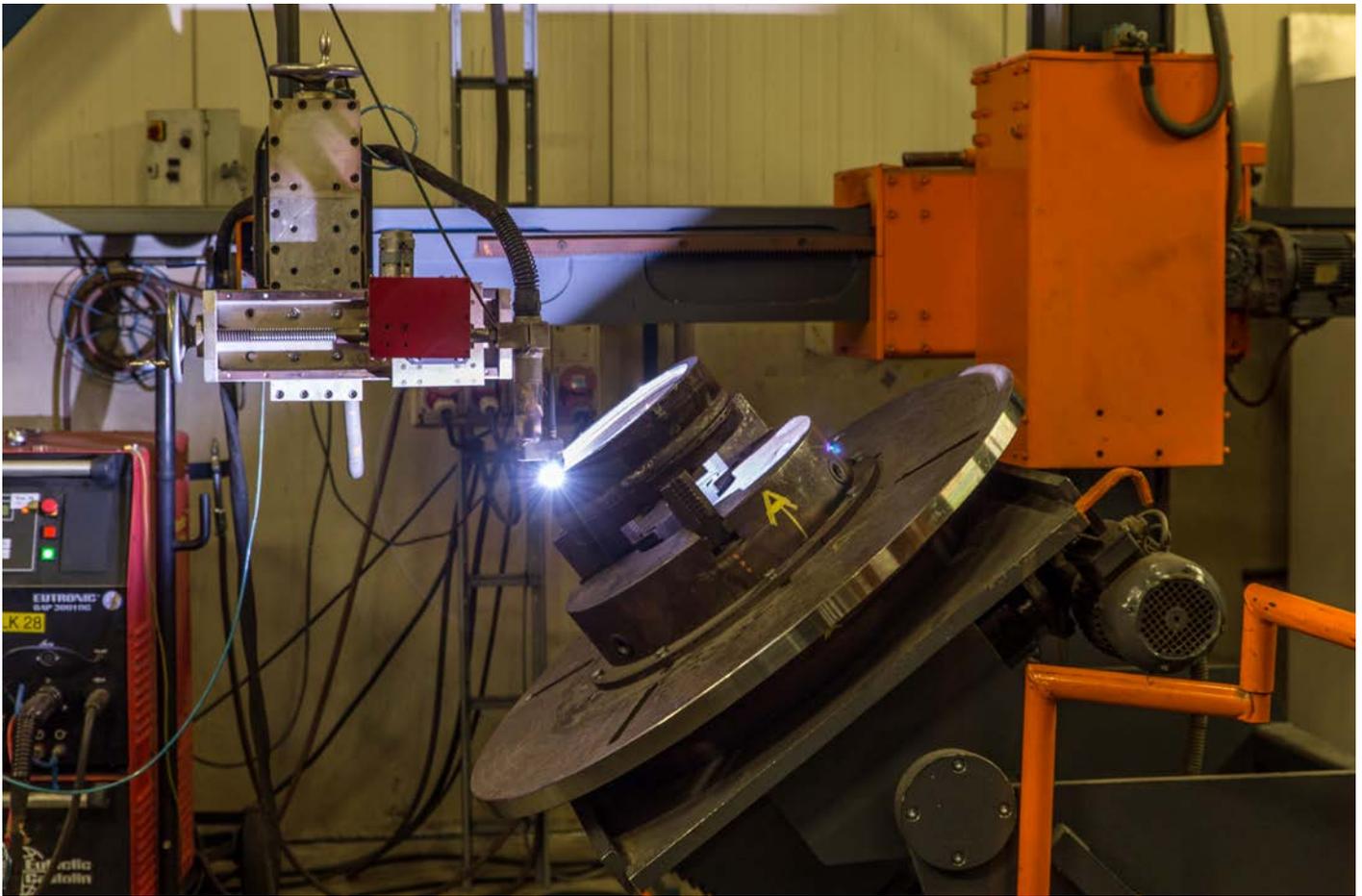
which is the major reason for premature failure of exhaust valves.

Particularly, stainless steel valves with Inconel layers can suffer and consequently unsatisfying lifespans for parts occur.

CLADDING TECHNOLOGY

QuantiServ has now developed and tested a new approach for applying high chromium content material on steel valves.

This provides the valve disc with an exceptionally wear resistant surface. Together with the proven techniques applied to valve stems, the exhaust valve durability is greatly enhanced.



FIELD TESTED APPROACH

The new reconditioning method has undergone successful field testing and the results were validated in extensive material tests.

Based on the extraordinarily positive results, the new procedure was introduced as a standard for new engines of the latest generation.

SAVING MAINTENANCE COSTS IN THE LONG RUN

Slightly higher initial investments for cladded reconditioned exhaust valves pay off significantly.

Under harsh operational conditions, stainless steel based exhaust valves may only last between 12,000 and 24,000 hrs.

In strong contrast to this, the application of QuantiServ's new

reconditioning technology prolongs the exhaust valve's life significantly.

This provides a huge cost reduction over the years and reduces the risks of engine breakdown considerably.

FIRST CLASS SERVICE

Cladded exhaust valves come with all QuantiServ standards:

- **Available as two options:**
 - As reconditioning service on the customer's own parts.
 - As exchange parts, ready in stock.
- **Global logistics services** for more than six worldwide stock locations.
- **Highest quality standard** on request, complete with class certificates.

APPLICABLE RANGE

All low-speed two-stroke diesel engines of any brand.



QuantiServ offers specialised, fast and reliable support, maintenance and repair services for customers operating equipment of multiple brands, both in the marine and energy sector.

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