

HIGH PRESSURE PUMP REFURBISHMENT SERVICE OFFERINGS

Lifecycle Extension & Energy Savings • Environmental Efficiency

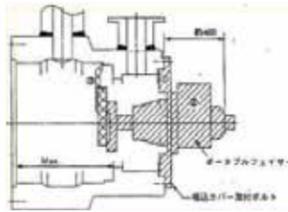
Case 1

Lifecycle extension through analysis and repair

It is possible to increase the lifecycle of your pump and restore its performance by repairing worn or corroded parts. Onsite repairs are possible using our Portable Flange Facer. We can even repair non-EBARA pumps.



External view of portable flange facer



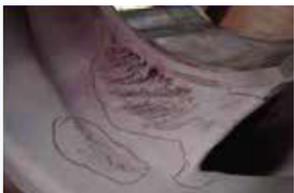
Barrel nozzle external erosion



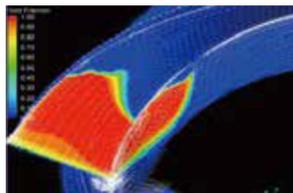
Main spindle replaced due to wear

Case 2

Lifecycle extension and energy savings through impeller modification or replacement



Cavitation caused by erosion



Cavitation analysis

- 1) Energy savings and performance optimization by impeller diameter adjustment.
- 2) Pump efficiency improvements through cavitation analysis.

Case 3

Lifecycle extension through improved part replacement



Erosion on inside of cylinder



Damaged impeller

- 1) Lifecycle extension through higher quality material part replacement.
- 2) Reduction in vibration damage by implementation of higher quality material bearings.

Case 5

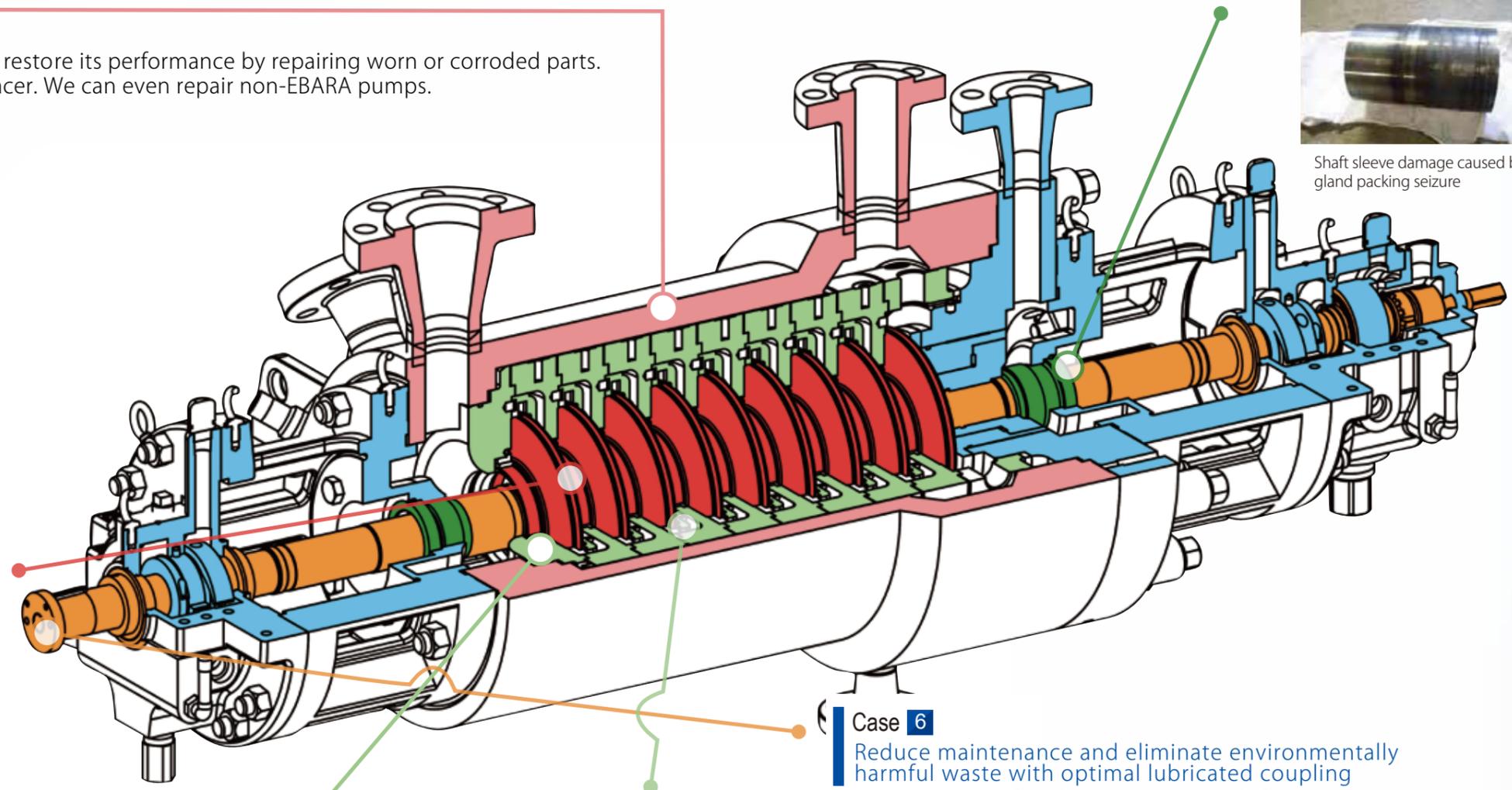
Eliminate environmentally harmful waste and reduce labor with mechanical seal

Applicable models and conditions : HSB,HDB,DCS,DCD,SP,SPD type Boiler Feed Pump

We will supply the optimal seal based on your pump design and usage. If conditions are right a non-flushing seal can be installed.



Shaft sleeve damage caused by gland packing seizure



Case 6

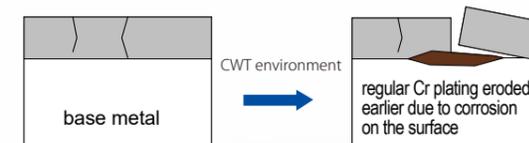
Reduce maintenance and eliminate environmentally harmful waste with optimal lubricated coupling
oil and maintenance free lubrication reduces the risk of vibration.

Case 4

Lifecycle extension and performance improvements through replacement of sliding parts

- 1) A proper analysis can be performed using current pump operational data. based on this analysis the best and most energy saving solution for part replacement will be proposed
- 2) Optimizing the material of the sliding parts to match the liquid type improves pump durability. (e.g. regular Cr plating → advanced Cr plating or thermal spray)

(a) Regular Cr plating



(b) Advance Cr plating

