

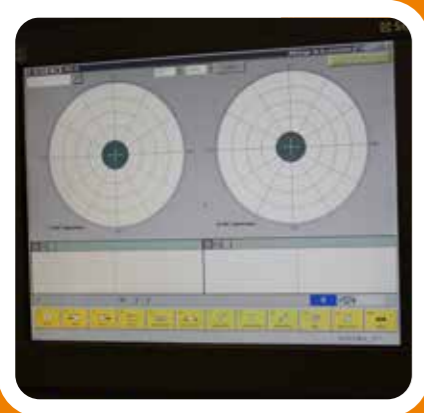


division MOTOR SPINDLE RENOVATION

> TECHNICAL AND HUMAN RESOURCES

PCI has created a specific motor spindle repair shop, with a team of technicians dedicate to this specialist job. PCI has the following resources:

- several repair stations working in parallel
 - a Schenck balancing machine
 - a Movipack vibration analysis system
 - dimensional inspection instruments
 - a CAD station
 - a sound insulated test in bench for testing and running over long periods
- and is very close to :
- an analysis laboratory (CETIM).



PCI also handles the inspection and repair of conventional machining spindles or multi-spindle units.

To enable you to maintain production, PCI can work on these elements during week-ends or line shutdown periods. In terms of diagnostic, repair, inspection and running in, our procedures are similar for motor spindles, conventional spindles and multi-spindle units.



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❖ MOTOR SPINDLE RENOVATION

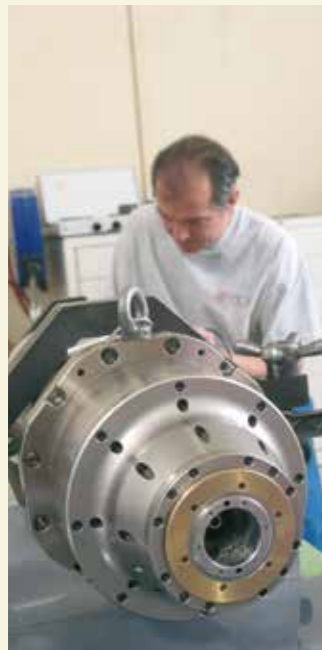
OUR EXPERTS
HAVE MANY
TROUBLESHOOTING
SOLUTIONS

DEPARTMENT EXPERT





WE REPAIR, OF COURSE, BUT WE ALSO UPGRADE OR REBUILD, EXCLUSIVE SERVICES THAT ONLY PCI'S INDUSTRIAL EXPERIENCE CAN GUARANTEE !



UPGRADING

Based on experience feedback from existing installations, PCI offers motor spindle upgrade kits that enhance both performance and reliability. These kits enable the latest technical improvements to be incorporated on spindles that are already installed, thus reducing maintenance costs.

TRANSFORMATION AND REBUILDING

For each rebuild, PCI analyses the condition of each part, in relation to its nominal specification. PCI can redesign parts to rebuild a spindle and, if necessary, incorporate changes to improve overall performance.



STOCK, SPINDLE MANAGEMENT

PCI can handle the management of your spindles. This management can be extended to the storage, on our site, of spare parts and/or complete spindles and the optimising of your maintenance cost.

EXPERT METHODS AND TECHNICAL FOR DETECTING THE ORIGINS OF A FAILURE

DIAGNOSTIC

PCI has developed diagnostic tools, with or without spindle dismantling. These tools identify the cause of the spindle damage as precisely as possible, and also enable a repair to be defined.



TRACEABILITY

PCI records the serial numbers of spindles and integrated subassemblies. At each repair, the measured characteristics are stored in archives. PCI can thus offer specific upgrade kits as a function of the precise composition of the customer's spindles.

SUPPORT

PCI can support you to apply the right solutions in order to suppress failure causes.

CONTROL OF THE BUDGET

QUOTATION

Based on a diagnostic, PCI proposes fixed price or custom repair quotes. PCI offers modular repairs, only changing the defective parts of the spindle.



PROVEN SOLUTIONS AND PROCEDURES

PCI has used all its experience of more than 50 years of designing and constructing machining spindles to develop motor spindle repair procedures.



DIAGNOSTIC

PCI disassembles the spindles and send to the customer a complete report showing pictures of components which need to be replaced or repaired. When disassembly is complete, PCI defines together with the customer the different possible level of repair depending on the spindle use.

REPAIR

The main parts are repaired, to limit the cost and overall repair time. In particular, PCI uses the hard chroming and grinding technique to repair bearing surfaces or tool cone.

BALANCING ON TEST BENCH

All the rotating parts are balanced before reassembly, and balancing checked after assembly. Careful balancing of the spindle shaft is absolutely essential to minimise vibration and increase bearing life.

RUNNING AND INSPECTION

Motor spindles are tested and run in 100% on the test bench, to ensure that they are immediately operational on the customer's machine.



... and more !

