



PROCESS CONCEPTION INGÉNIERIE
HIGH EFFICIENCY MACHINING SYSTEMS



Honing on Machining Center

OpenHone

Easy and Simple : Honing for all

Expertise & service

PCI Expertise

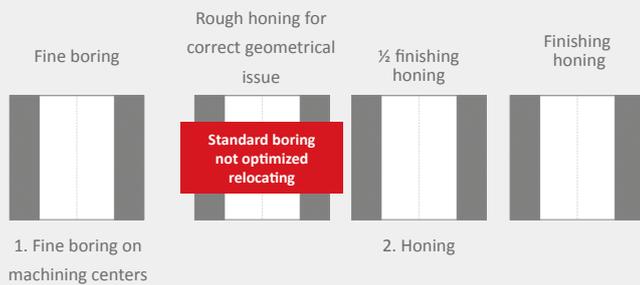
Fine boring & Honing : Single contact

Based on decades of experience with traditional honing and fine boring, PCI offers an innovative and complete machining process to go over finishing operations of cylinders blocks on standards horizontal CNC machines.

Standard process

Machining center + Honing machine

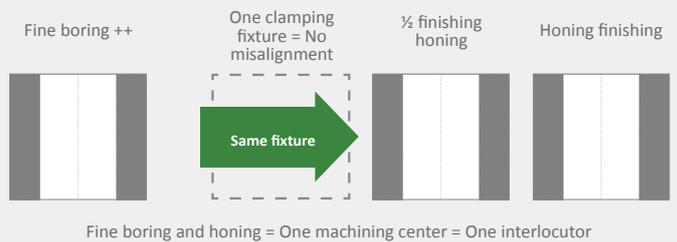
- + Historic process
- + Suitable for production > 300 KUPY
- No flexibility
- Specific honing skills



PCI honing

Machining center only, One clamping fixture

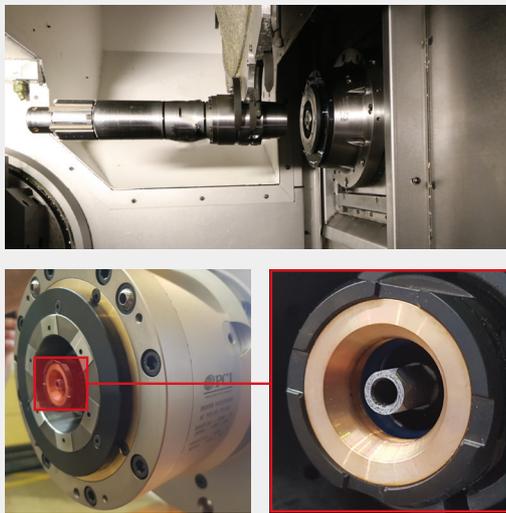
- + Suitable for production < 200 KUPY
- + Optimized honing process :
 - Less honing tool
 - Reduced abrasive consumption
- + Machining center flexibility
- + Standard machine:
 - Spare parts
 - Standard skills



Fine boring	Numerical expansion : <ul style="list-style-type: none"> • \emptyset continuous drive • Wear compensation Fine boring with asked \emptyset (ISO code)		
	Cutting edged retraction Goal: Do not strike the liner		
Honing	Semi-finishing honing		
	Finishing honing		

Technology

- HSK100A spindle
Best fit for cylinder block finishing (High torque and rigidity)
- Automatic tool changer
(including honing and fine boring tools)
- U Axis for expansion driven tools
Fine boring and honing tools



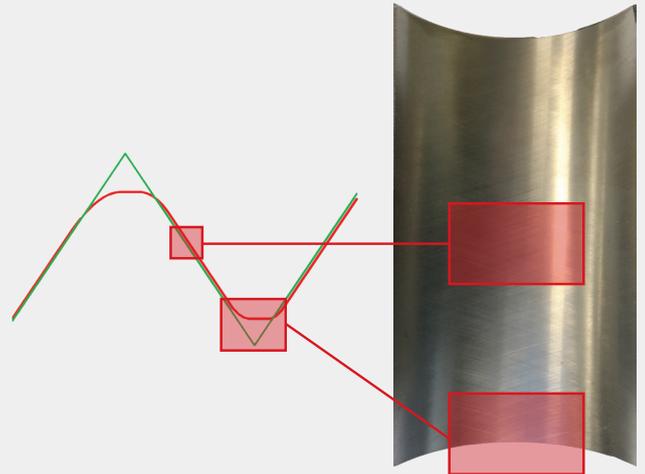
- Honing cycle :
Ensure cross hatch pattern on finished surfaces

PCI abrasive path

Perfect cross hatch pattern
along the liner

Incorrect path

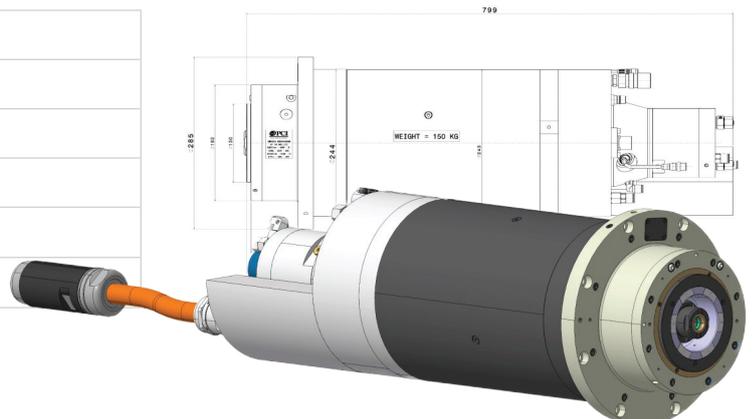
Horizontal strikes both on top
and bottom ends



HSK100 PCI Spindle

Technical specifications

Max speed	12 000 RPM
Power S1 - S6	40 - 65 kW
Torque S1 - S6	200 - 310 Nm
Spindle taper	HSK100-A
Lubrication	Lifetime grease
Options	Axe U





PCI-SCEMM - Rue Copernic - 42030 Saint-Etienne Cedex 2 FRANCE
Tel : +33 (0)4 77 42 60 88 - sales@pci.fr - www.pci.fr

MEMBER OF

TIGROUP