Vischer & Bolli
OSG GROUP COMPANY

Cryogen: Coolant at the right spot.

COOL

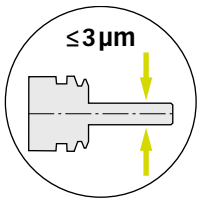
sCO_2 cools the cutting edge in a safe and clean way, thanks to powRgrip® with an optimum dosage.

CLEAN

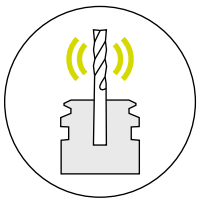
No contamination at all, therefore no necessity of additional cleaning of the workpiece afterwards.

CRYO-powRgrip®

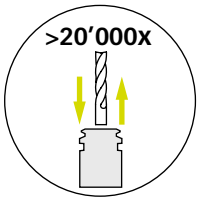
PG-CRYO collets offer the latest tool cooling technology, for a clean chipping of workpieces (i.e. Medical industries).



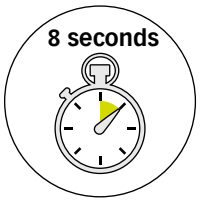
Total system runout TIR ≤3 µm at 3 x D.



Excellent vibration dampening.



Maximum clamping force and low runout, even after 20'000 tool changes.



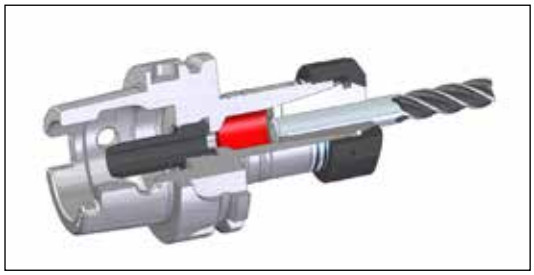
Tool ready for use in 8 seconds with PGU 9500.

sCO_2 sealed: Designed by REGO-FIX.

REGO-FIX design

The major difference of tool holding systems

Solution: Reducing of the condensation space



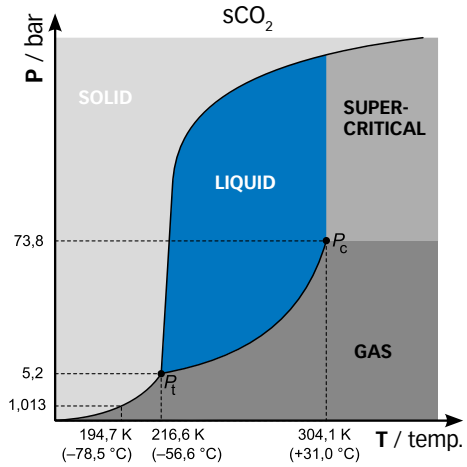
Competitor solution

Typical tool clamping system, with the risk of icing of the holder, due to the gaseous state behaviour of sCO_2 between coolant pipe and tool.

PG-CRYO – Toolholder

The cooling medium will be directly led to the cutting edge through the cutting tool. The sCO_2 expands at the cutting edge and the ice snow provides an efficient and clean chipping.

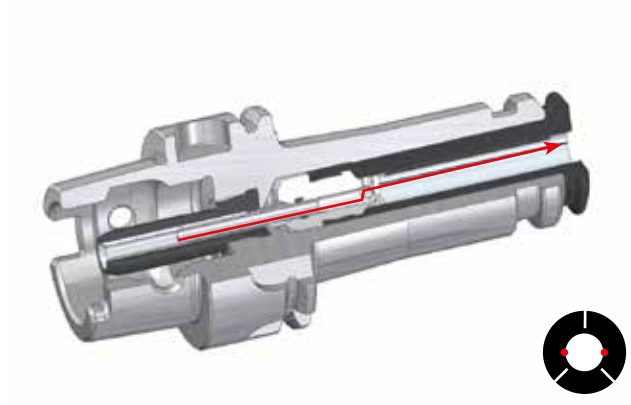
State of aggregation diagram



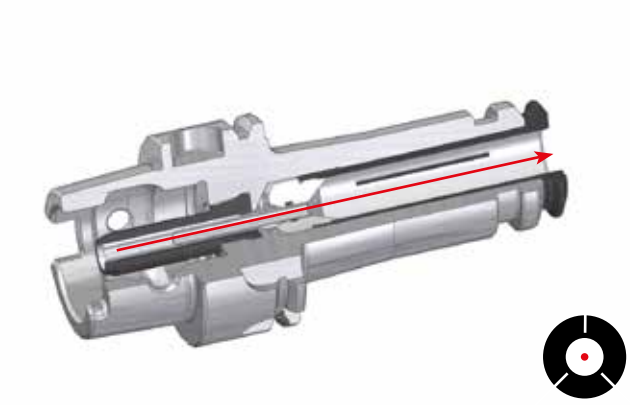
Benefit of CRYO-powRgrip®

- Perfect guidance of the cooling medium to the cutting edge
- Tool life increase
- Productivity increase, due to higher cutting parameters
- Better surface finishing
- No disposal of the cooling fluid necessary
- No necessity of workpiece cleaning
- 100 % recycling of the chips
- Quick tool change with powRgrip®

For peripheral external cooling



For internal cooling



Vischer & Bolli AG | Werkzeug- und Spanntechnik | T +41 44 802 15 15 | info@vb-tools.com
Vischer & Bolli SA | Technique d'usinage et de serrage | T +41 32 721 00 47 | info-fr@vb-tools.com
www.vb-tools.com