

CoroTurn® HP

Coromant Capto® tools for High Pressure Coolant



Extended
programme

The future is under pressure

CoroTurn HP, a pioneering high-pressure coolant system combined with Coromant Capto, harnesses the high pressure capability of 70-80 bars in turning centres, vertical turning lathes and multi-task machines.

Improved chip control allows unmanned production in:

- High volume production with automatic component changing in turning centres.
- Multi-task machines where chip gathering around the tool prevents automatic tool changing.

Target your coolant

Experience the benefits of CoroTurn HP even at low pressure (from 10 bars). Here the high precision and accuracy of coolant delivery play its part. Fixed nozzles take away the need for manual adjustment.



- *Chip control in finishing - secure trouble-free production in all materials*
- *+20% increased cutting speed for roughing in difficult materials*
- *+50% tool life for roughing to finishing in difficult materials*

Better chip control in all materials

A sample of some of the impressive results from various materials at a depth of cut of 0.25 mm and a feed rate of 0.15 mm/rev.

| Steel | Stainless steel | HRSA | Aluminum |
|------------------------|------------------------|---------------------|---------------------|
| SS1672 | AISI 316L | Inconel 718 | Alumec |
| CNMG 120408-PF 4225 | CNMG 120408-MF 2025 | CNGP 120408 S05F | CNGP 120408 H13A |

Titanium
Ti6Al4V
CNGP 120408
H13A

**CoroTurn HP-
tools
10 bars**

**CoroTurnHP-tools
70 bars HPC**

**Conventional
tools
10 bars
Standard Coolant**

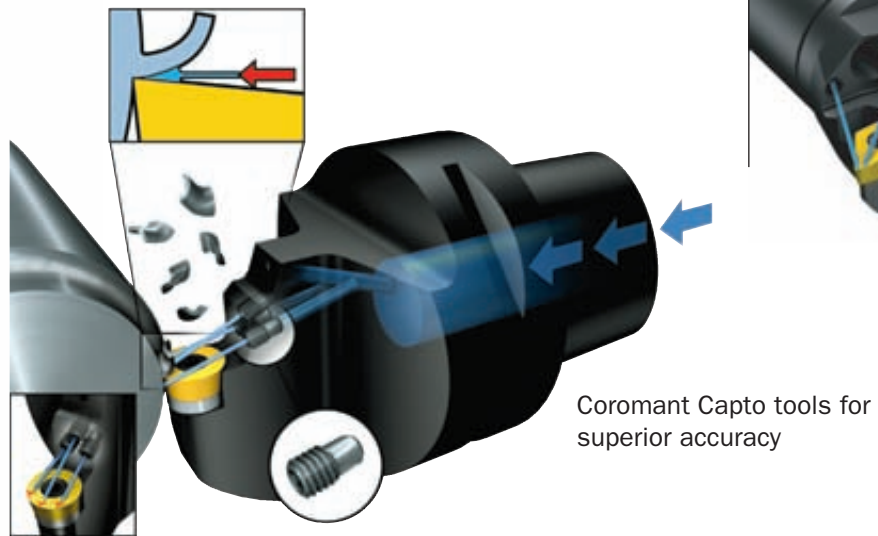


Power in precision

Accurate coolant jets with laminar parallel flow are easily channelled through the tool. The jet produces a hydraulic wedge, lifting the chip, reducing the temperature and improving chip control. The result is improved performance for external and internal turning, profiling and back boring.

- Hydraulic wedge lifting the chip
- Reduce the temperature
- Improve the chip control

The flexible CoroTurn SL system

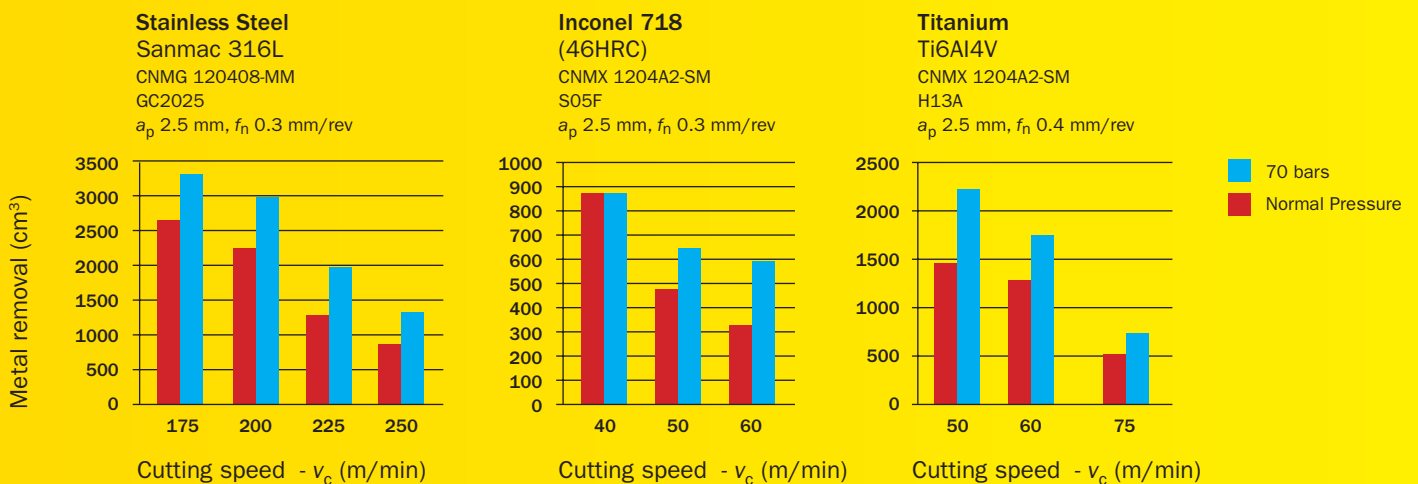


Pre-defined target areas on the insert face

High precision jet nozzles

Compare the difference

The tests below shows the result of metal removed with CoroTurn HP in different materials.



Product assortment

Ordering codes



| SL-cutting heads | Coromant Capto | |
|---|-----------------|--|
| SL-PCLNR/L-32-12HP SL-PCLNR/L-40-12HP SL-PCLNR/L-40-16HP | General turning | C4-PCLNR/L-27050-12HP C4-PDJNR/L-27055-15HP C5-PCLNR/L-35060-12HP C5-PDJNR/L-35060-15HP C6-PCLNR/L-45065-12HP C6-PDJNR/L-45065-15HP C6-PSSNR/L-45052-19HP C6-PSSNR/L-45056-12HP |
| SL-PDUNR/L-32-11HP SL-PDUNR/L-40-15HP | | |
| SL-PTFNR/L-32-16HP SL-PTFNR/L-40-16HP | | |
| TR-SL-V13LBR/L-32HP TR-SL-V13LBR/L-40HP | Multi task | C6-PCMNN-00115-12HP C8-PCMNN-00150-12HP C6-PDMNR/L-00130-15HP C6-SVMBR/L-00130-16HP C6-PCLNR/L-45165-12HP C6-PDJNR/L-45165-15HP C6-PSSNR/L-45156-12HP |
| TR-SL-D13UCR/L-32HP TR-SL-D13UCR/L-40HP | | |
| External turning TR-SL-D13JCR/L-32HP-X TR-SL-D13JCR/L-40HP-X TR-SL-V13JBR/L-32HP-X | | Aerospace |

CoroTurn HP

- Coromant Capto tools for excellent repetitive accuracy.
- The flexible CoroTurn SL system for external and internal operations.
- High precision coolant flow.
- Improved chip control in finishing, even at low pressure (from 10 bars).
- Increased tool life in difficult materials.
- Shorter cycle time.
- Higher process security.

Your local Sandvik Coromant distributor:

For more information please check our catalogue supplement, main catalogue or visit www.coromant.sandvik.com.

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