

## Delightful silence...

The easily replaceable cutting head and the stable interface make SL a standardized interface for all Silent Tools dampened bar adaptors. Silent Tool bar adaptors with SL coupling are available in diameters 16-250 mm.

Vibration energy is absorbed by the tool bar making productive cutting data possible.

● ● ● SilentTools®



## CoroTurn® SL

# Turn flexible, go for modular

**SANDVIK**  
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## “The easy change of cutting heads”

This was the main reason for Mr Bo Hjelm, Voith Turbo Safeset AB choosing the CoroTurn® SL system.

“The tool lengths we have don't allow automatic tool changes. Changing tools by replacing the cutting head is easy and that's why we choose SL. We can also avoid many engineered tools now. It's really flexible.”

Bo Hjelm  
Production engineer  
Voith Turbo Safeset AB

## 3 bars, 3 heads = 9 combinations

With hundreds of SL-cutting heads, bars and adaptors, the number of possible combinations within the SL system is immense. This is what makes it so useful.

There are modular solutions for:

- Internal turning
- External turning
- Parting and grooving
- Threading
- Multi-task machining
- Dampened boring bars
- Large diameter adaptors
- Disc manufacturing

All with the strong serrated interface, unique for SL.



### CoroTurn® HP High Pressure Coolant

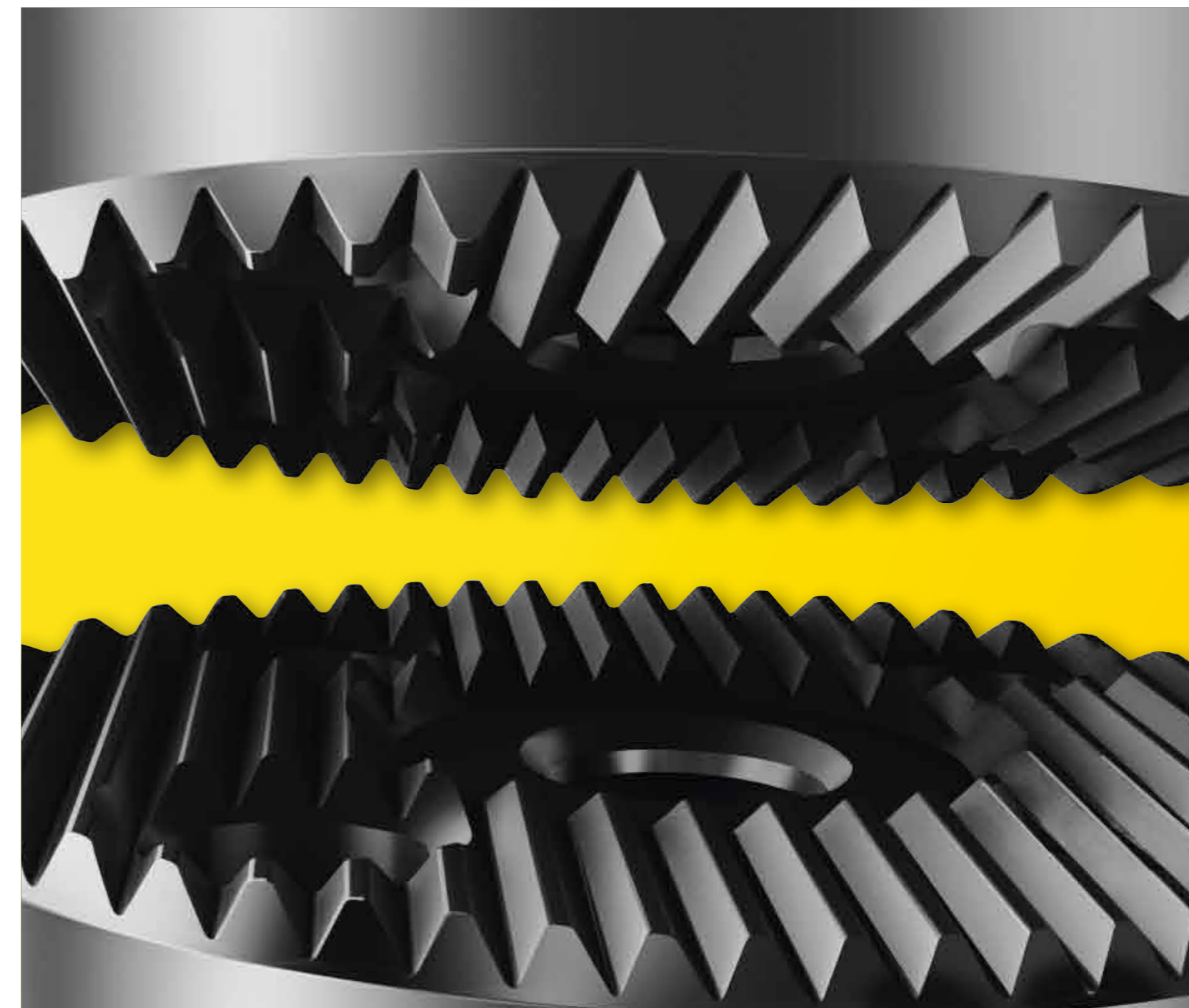
High pressure coolant delivered from precision nozzles produces a jet that lifts the chip from the insert surface, reduces temperature and improves chip control. The result can be measured in performance and process stability.

Head office:  
AB Sandvik Coromant  
SE-811 81 Sandviken, Sweden  
www.sandvik.coromant.com  
E-mail: info.coromant@sandvik.com

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Your success in focus



CoroTurn® SL coupling

# Solid combinations that reduce inventory

Reduced inventory is one direct result of using the SL tool system where a tool is the combination of a bar and a cutting head. The combination possibilities are unlimited.

The CoroTurn® SL-system covers bars from the smallest diameter, via dampened Silent Tools, up to 600 mm boring bars. There are cutting heads for general turning, internal turning, parting and grooving, threading, multi-turrets, specially designed SL70 tools for turbine disc manufacturing, and much more. It brings flexibility as every combination is possible and reduces the number of tools in stock.

SL=Serration Lock.  
The serrated interface between adaptor and cutting head is comparable with a solid tool in performance regarding vibration and deflection.

CoroPlex™ SL mini-turret

## Multi-task turrets

Build a multi-functional tool for multi-task machining: use a Coromant Capto boring bar adaptor, apply a CoroPlex SL mini-turret plate, combine with four SL cutting heads or blades for turning, threading, parting or grooving. With four tools in one, a quick indexing of the multi-task turret completes a tool change in less than a second.

- 4 turning tools in one
- Reduced tool changing time
- Saves tool pockets in tool magazine

*4 tools in 1!*



*Light design reduces vibration!*

CoroCut® SL

## The parting and grooving choice

In grooving operations, wear on the tool holder is often inevitable. A simple change of the tool-head is beneficial from both practical and economic reasons. That is why SL is our first-choice recommendation for all grooving applications. With CoroCut SL, you have access to the market's largest modular system.

- Extensive programme for true flexibility
- Stability and performance of CoroCut inserts
- Directed coolant flow

*First choice for grooving!*



## Combine standard to make special

The SL-system is designed for customized solutions. A new combination of a SL-holder and a cutting head can build the tool you need. Or, a special adaptor opens up even more solutions, as with the tool shown here. The use of standard units makes engineered solutions easy and economical.

*Special? No, simply standard...*



Related SL-products:

## CoroTurn® SL70

CoroTurn SL70 is an oval coupling with SL-interface. It is specially designed for the requirements of turbine disc and casing pocketing, in demanding heat resistant super alloys.

- Oval shape for maximum stiffness or accessibility



*Slide to adjust!*

## CoroTurn® SL quick change

The SL quick change system is available for boring bars from 80 mm diameter. It makes tool change even more rapid and adds valuable adjustability. Slide the light front end into the coupling and adjust the f1-dimension.

- Adjustable
- Reduced set-up times
- Coolant directed to the cutting edge