



Innovate

## CoroTurn® Prime

Brought To You by Sandvik Coromant | Sep 21, 2017

PrimeTurning™ is a new methodology which enables you to do turning in all directions in much more efficient and productive way as compared to conventional turning. This concept comprises a new turning method, dedicated CoroTurn® Prime tools, and a code generator.

The biggest innovation in turning...since turning.

# Turning re-invented

Since turning was invented, plenty of new tools and coating technologies have been introduced. But turning as a method has remained the same – until now... Let us introduce you to a whole new way of turning – PrimeTurning™!

## MAIN BENEFITS

Faster, stronger, better

**2X**

Double the speed and feed

Doubling speed and feed rates enable faster metal removal for more parts per run.



Longer lasting inserts

Longer lasting inserts due to small entering angle and efficient edge utilization.

**>50%**

Productivity increase

New concept, tools and code generator offers more than 50% productivity increase as compared to conventional turning.

## COMPARISON

### Conventional vs. PrimeTurning™



Why settle for less when PrimeTurning offers flexibility to do turning in **all directions** for extraordinary productivity.



**1X**

Doubling speed and feed rates enable **faster metal removal** for more parts per run.

**2X**



Longer lasting inserts avoid tool changes under long tool paths thus dramatically **reducing the cycle time**.



Secure maximum output with PrimeTurning code generator that supplies programming codes and techniques to set up proper parameters and variables for a particular application.



PrimeTurning offers more than 50% productivity increase as compared to conventional turning.



Avoid machine tool investments due to shorter setup time, fewer production stops and tool changes.



Increased profitability through lower capital expenses and reduced cost per component.



## SUCCESS STORY

### Customer case

Material	Coolant	Operation
HEAT RESISTANT SUPER ALLOYS	EMULSION	ROUGHING
Competitor insert		CoroTurn® Prime B-type
0.3 (.012)	$f_r$ , mm/r (inch/r)	<b>0.8 (.032)</b>
2 (.079)	$a_p$ , mm (inch)	<b>4 (.156)</b>
Results:		
2:42 min	Total cycle time	<b>1:36 min</b>
4 pcs	Tool life/edge	<b>9 pcs</b>

Smashing numbers that speak for themselves:



Cubic metal removal/min:  
**480 cm<sup>3</sup>/min**



Time saving using Prime:  
**1 min 6 sec**



Potential number of increased output per hour:  
**61 pcs/hr**



Average overall productivity increase:  
**85%**

