

# SECO PRODUCT SUMMARY

## A NEW DRILL BODY THAT STANDS THE TEST OF TIME PERFOMAX®

Take your drilling applications to the next level with Seco's new Perfomax indexable insert drill with optimized chip flutes for ideal chip control and evacuation. The flutes on the new drill bodies feature recently developed anti-friction surfaces. This special **"wave patterned technology"** minimizes the contact between chips and the flutes for higher application security, while radial clearance reduces the risk of chip jamming. We also laser hardened the fronts of the flutes to a high surface hardness of HRC 60 and improved the pocket design to increase tool body longevity.

### KEY BENEFITS

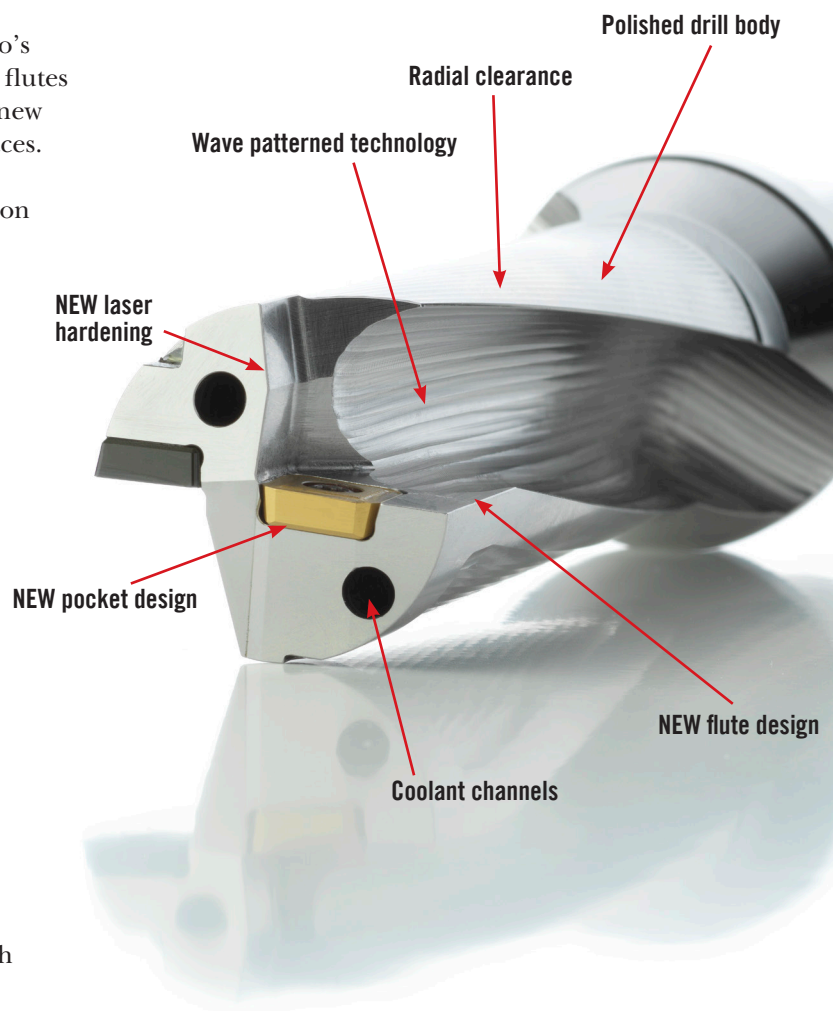
- Effective chip control for long chipping ductile materials
- Fast and efficient chip evacuation
- Longer tool life gives reduced tool cost
- Exceptional process predictability and reliability
- Better hole and surface finish
- New stronger re-designed insert pocket

### RANGE OVERVIEW

#### Drill bodies:

- Diameter range 0.594" - 2.375" (15 - 59 mm)
- Length to diameter ratios of 2xD, 3xD, 4xD and 5xD
- Intermediate diameters and lengths available at launch
- All standard spindle interfaces

**NEW Inserts:** DS2050 - Periphery & DS4050 - Center



# INDEXABLE INSERTS THAT WON'T BUILD UP OR LET YOU DOWN DS2050/DS4050



- **Grades:** DS2050 - Periphery & DS4050 - Center
- Niobium Nitride (NbN) coating, chemically non-reactive to titanium and avoids built-up edge
- Improved chip control for longer tool life
- First choice for drilling titanium, high temp superalloys as well as difficult stainless steel materials
- Free-cutting MP/MC Chipbreaker

## SECO PERFOMAX®

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MATERIAL GROUPS (DS2050/DS4050 INSERTS)	MATERIAL GROUPS (DRILL BODY)
Titanium/Superalloys S1-S13	Steel P1-11
Stainless Steel M3-M5 (Difficult)	Stainless Steel M1-M5
	Cast Iron K1-K5
	Non ferrous N1-N11
	Titanium/Superalloys S1-S13
	Hardened Steels H3-H31

## INDUSTRY APPLICATIONS

- Aerospace
- Automotive
- General Machining
- Oil & Gas
- Power Generation

FEATURES	ADVANTAGES	BENEFITS	IMPACT
Optimized position of coolant holes	<ul style="list-style-type: none"> <li>• Improved chip evacuation</li> <li>• Longer tool life</li> </ul>	<ul style="list-style-type: none"> <li>• Application security</li> <li>• Cost savings</li> </ul>	<ul style="list-style-type: none"> <li>• How would you like to lower the cost per hole by increasing the time between insert changes?</li> </ul>
New front flute design with laser hardening	<ul style="list-style-type: none"> <li>• Improved chip control</li> <li>• Improved strength in the drill point</li> <li>• Close hole tolerance</li> <li>• Prevents erosion</li> </ul>	<ul style="list-style-type: none"> <li>• Application security</li> <li>• Less power needed</li> <li>• Longer tool life on drill body</li> </ul>	<ul style="list-style-type: none"> <li>• How would you like to increase unmanned production and application security by having more predictable tool life?</li> </ul>
Radial clearance on drill body	<ul style="list-style-type: none"> <li>• Avoid chip jamming and welding of drill body</li> <li>• Easy to use</li> </ul>	<ul style="list-style-type: none"> <li>• Application security</li> </ul>	<ul style="list-style-type: none"> <li>• How would you like to lower tool cost by reducing risk of chip jamming?</li> </ul>
Polished drill body with improved shanks	<ul style="list-style-type: none"> <li>• Improved chip evacuation</li> <li>• Better surface finish</li> <li>• Avoid marks from tool holder</li> <li>• Improved body fatigue strength</li> <li>• High surface finish on drill body</li> </ul>	<ul style="list-style-type: none"> <li>• Application security</li> <li>• Less power needed</li> <li>• Chamfer on flats</li> </ul>	<ul style="list-style-type: none"> <li>• How important is drill body longevity?</li> </ul>
Wave Patterned Technology ( Anti-friction surface )	<ul style="list-style-type: none"> <li>• Smoother chip flute exit</li> <li>• Improved chip evacuation</li> <li>• Improved performance in stainless steel and low carbon steel</li> <li>• Better surface finish</li> </ul>	<ul style="list-style-type: none"> <li>• Application security</li> <li>• Less power needed</li> </ul>	<ul style="list-style-type: none"> <li>• Is better chip evacuation important to you?</li> </ul>