Steel milling evolution

Flaking and chipping that result in a short insert tool life and unstable production are some of the most common milling issues. This is especially true when machining complex tool paths, deep cavities, or when using coolant. With GC1130, the new steel milling grade, chipping and flaking are no longer a problem.

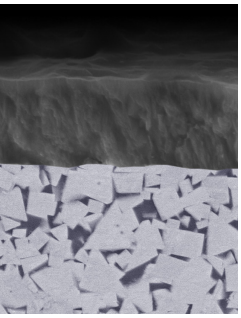
GC1130 is a highly reliable insert grade designed to withstand many difficult machining conditions. Produced with Zertivo™, a unique PVD production technology that amplifies the grade's exceptional benefits, GC1130 inserts provide long tool life, making your production process predictable and secure.

Benefits of GC1130

- Clean and intact edge offers secure machining with long and predictable insert tool life
- High metal removal rates and reliability, even in challenging conditions such as complex tool paths or deep cavities
- Great performance in both dry and wet machining

CoroMill® 490 insert with GC1130 steel milling grade

What goes into GC1130?



1. Next generation PVD coating

The new PVD coating in GC1130 is produced with Zertivo technology, giving great edge-line security and reduced flaking. It is designed to provide the perfect balance between abrupt chipping and continuous wear resistance.

2. High Cr content substrate

The high Cr content, fine-grain substrate is optimized to withstand edge-line chipping and cracks arising from difficult and demanding machining conditions, such as temperature variations.

Zertivo in a nutshell

- Sandvik Coromant's unique production technology developed for PVD grades
- Enables increased control of the grade production process
- Improved adhesion between substrate and coating, and optimized cutting edge integrity
- Amplifies each grade's unique benefits, resulting in longer tool life and secure machining

For more information about Zertivo visit:

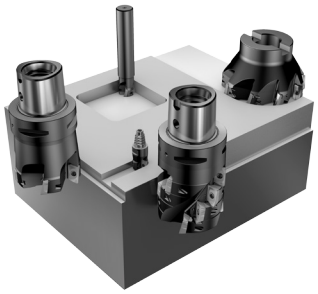
www.sandvik.coromant.com/zertivo

Application area

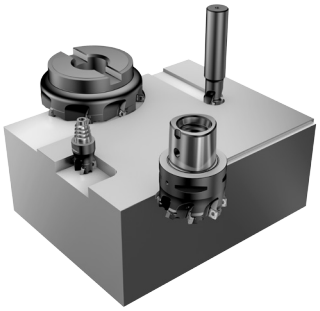
GC1130 is optimized for steel machining in all conditions. First choice for shoulder and groove milling within the ISO P area.

- Challenging machining, e.g., unfavorable tool paths or deep cavities
- Roughing to finishing
- Wet and dry machining (dry machining is recommended)
- Good choice for mixed material production

Shoulder and chamfer milling



CoroMill® 390 – Versatile concept for mixed production

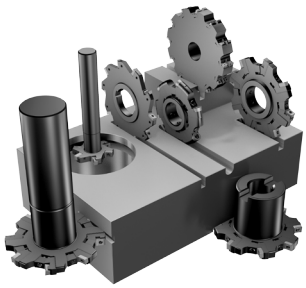


CoroMill® 490 – First choice for general and repeated shoulder milling

CoroMill® 495 – Chamfer milling cutter

Groove milling

CoroMill® QD – Deep and narrow grooving



CoroMill® 331 – Multi-purpose side and face milling cutter

Other concepts

Inserts with GC1130 are also available in the following product families:

- CoroMill® 790 and T-Max® long edge (shoulder milling)
- CoroMill® Century (face milling)
- CoroMill® 170 and CoroMill® 176 (gear milling)

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