

Press release

WOW SECO PR125
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Immediate

Make tough turning operations (like railway wheels) easier with new Seco -RR93 and -R3 geometries.

For manufacturers struggling to manage metal working chips and optimize tool life on tough turning operations, Seco has introduced new -RR93 and -R3 geometries as part of its RCMx range of turning inserts.

Designed for extreme applications such as turning railway wheels, these additions combine new roughing and medium finishing chip-breakers with industry-leading Duratomic®-grade technology.

The -RR93 chip-breaker boosts tool life, improves productivity, increases product reliability, enlarges chip-control working area and enhances surface finish. This new design replaces the -RR94 geometry.

The -R3 geometry excels in medium finishing applications in steels, difficult stainless steels and super alloys. Its optimally positioned grooves control chips even when depths of cut run as small as 1.5 mm, high feed rates range from 0.6 mm/rev to 1.2 mm/rev and cutting speeds reach 90 m/min. to 160 m/min. (Within these cutting-data ranges, the correct choices depend on materials and machine conditions.) The -R3 geometry replaces the previous -R2 geometry.

Throughout the RCMx range of inserts, the RCMT20-R2 positive screw-clamped range additions significantly reduce machining vibration, yielding smoother finishes. This is ideal for railway wheel finishing and medium roughing applications of difficult materials. Dedicated insert edge treatments and retained functional toughness arrest comb cracks and increase edge security.

For improved mechanical and thermal properties that enhance performance, the Duratomic® CVD aluminium-oxide coating process manipulates coating components at the atomic level. This technology's used-edge detection reduces cutting-edge waste.

The new -RR93 and -R3 geometries, as well as the Duratomic® grades, have been tested in most common railway wheel materials, including R7, R8, R9, M1, Class B and Class C.

Range Overview

- -RR93: 9 inserts (RCMX20, RCMX25, RCMX32)
- -R3: 10 inserts (RCMX20, RCMX25, RCMX32, RCMT20)
- All inserts available in new Duratomic® TP grades
- RCMX20-R3 available in grades TS2000 and TS2050

Ends.

Image caption:

Seco_RCMx_Range_Inserts.jpg: **Seco Tools' new RCMx range of inserts are ideal for tough turning operations.**

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