

# CoroCut<sup>®</sup> QI

Optimized for internal grooving and  
face grooving

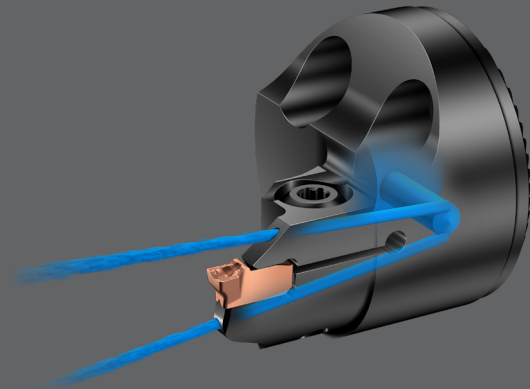
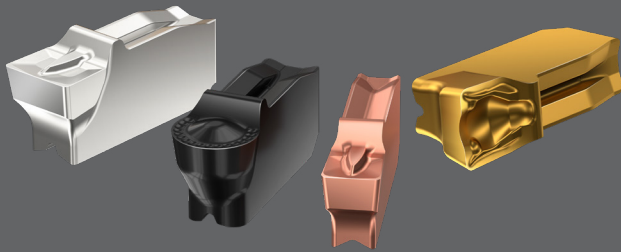
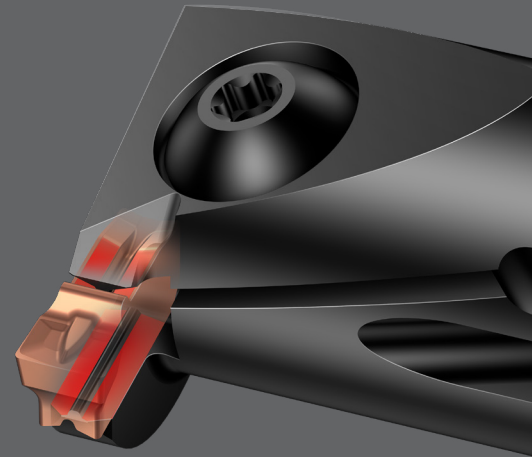
## Reliable grooving on small diameters

Machining grooves on smaller diameters just got more reliable thanks to CoroCut<sup>®</sup> QI. Featuring a rail insert seat, the tool ensures insert stability that provides cost-efficient and stable machining of internal grooves and face grooves.

Thanks to a light cutting action and inserts with high edge-line quality, the CoroCut<sup>®</sup> QI delivers high surface-quality grooves with superior process security.

## Features and benefits

- Rail insert seat for a stable and precise insert position
- Optimized tip seat angle enables a lighter cutting action and reduced cutting forces
- Screw-clamped tool holders ensure stability and high process security
- Internal coolant improves chip evacuation and increases productivity
- Inserts with high edge-line quality increase tool life and surface quality



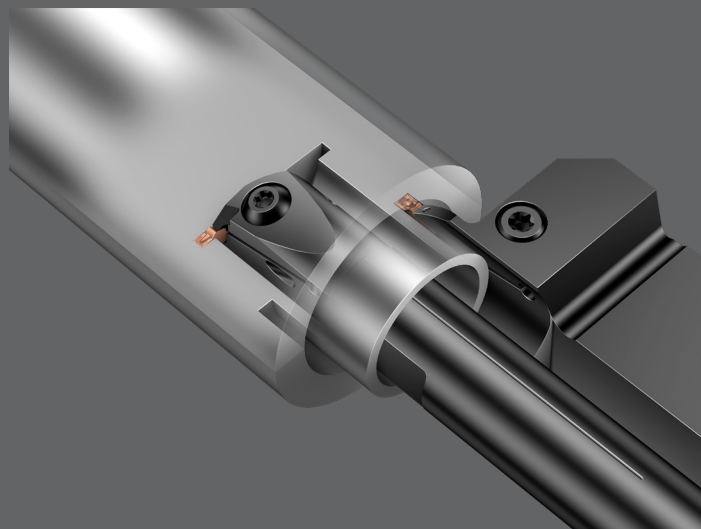
## Application

### Internal grooving

- Minimum hole diameter (DMIN): 12–60 mm (0.472–2.36 inch)
- Cutting depth (CDX): 2–11 mm (0.079–0.433 inch)

### Face grooving

- First cut diameter (DAXIN-DAXX): 16–102 mm (0.630–4.02 inch)
- Cutting depth (CDX): 5.5–20 mm (0.217–0.787 inch)



ISO application areas

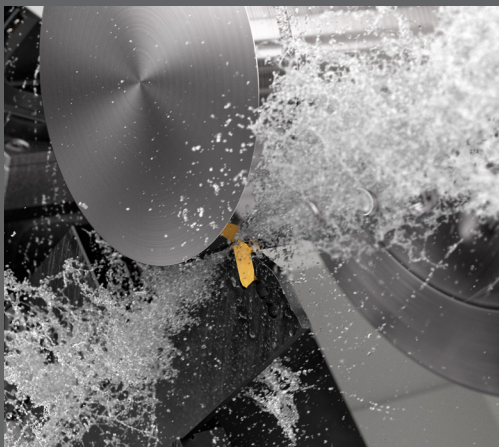
## High-performance parting and grooving tools

The CoroCut® QI, together with the CoroCut® QD and CoroCut® QF, completes the platform of optimized high-performance tools for parting and grooving applications.



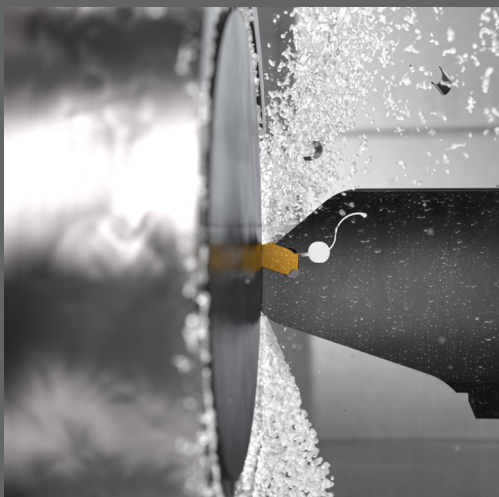
### CoroCut® QI

Optimized for internal grooving and face grooving applications.



### CoroCut® QD

Optimized for deep external grooving and parting off applications.



### CoroCut® QF

Optimized for deep face grooving applications.

## Performance case

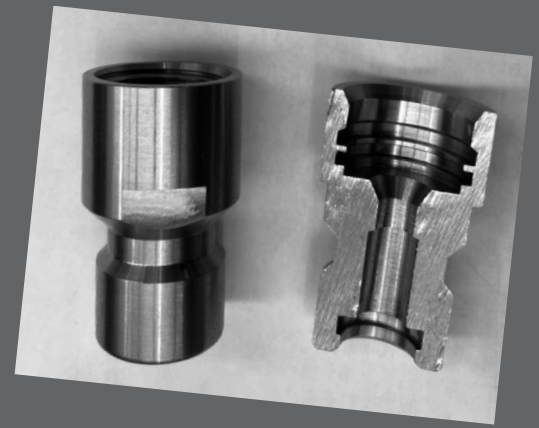
# Competitor vs. CoroCut® QI

**Component:** Body

**Material:** M1.2.Z.AQ (Aisi 303)

**Operation:** Internal grooving

**Machine:** Citizen M32



	Competitor	CoroCut® QI
Tool	Carbide bar	QI-RAGE02C16-12
Insert	-	QI-NE-0200-0002-GF 1125
$v_c$ m/min (ft/min)	135–160 (443–525) (constant rpm)	135–160 (443–525) (constant rpm)
$f_n$ mm/rev (in/rev)	0.05 (0.002)	0.07 (0.003)
Time, sec	70	65
<b>Tool life, pcs</b>	<b>3000</b>	<b>7000</b>

**Result:** The reason for changing the competitor tool was poor surface finish. The CoroCut® QI provided a secure and reliable process with an excellent surface finish as well as higher productivity.

**+130%**  
Tool life

For more information, contact your local Sandvik Coromant representative or visit [www.sandvik.coromant.com](http://www.sandvik.coromant.com)

Head office:  
AB Sandvik Coromant  
SE-811 81 Sandviken, Sweden  
E-mail: [info.coromant@sandvik.com](mailto:info.coromant@sandvik.com)  
[www.sandvik.coromant.com](http://www.sandvik.coromant.com)

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