

CoroCut® QI

Optimized for internal grooving and
face grooving

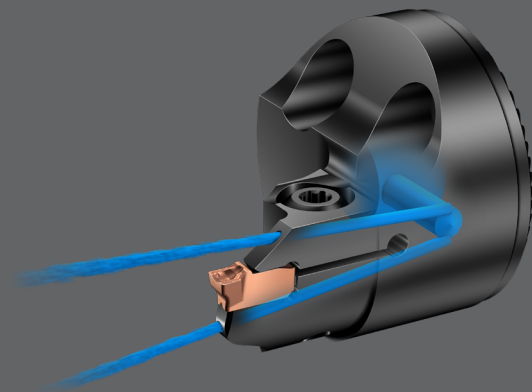
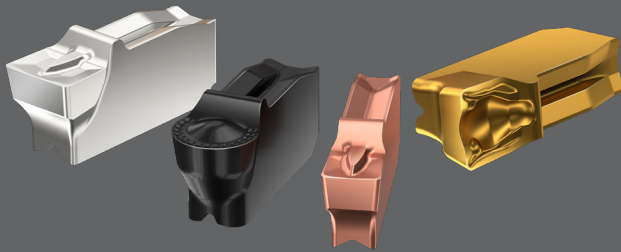
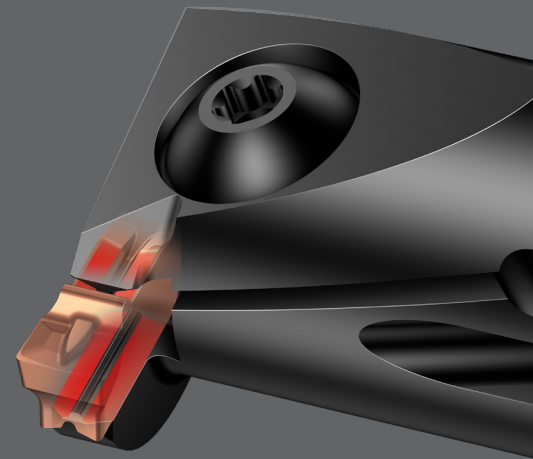
Reliable grooving on small diameters

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

Through a light cutting action and inserts with high edge-line quality, CoroCut® 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



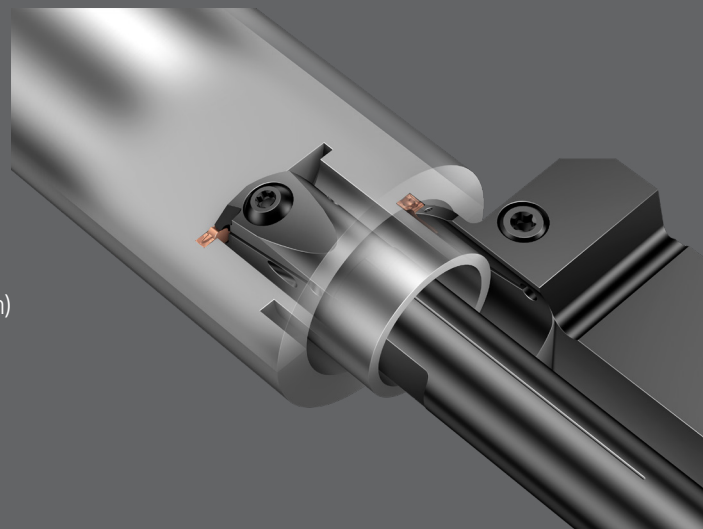
Application

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

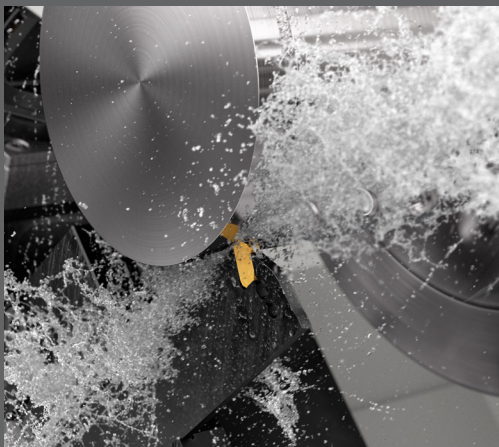
High-performance parting and grooving tools

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



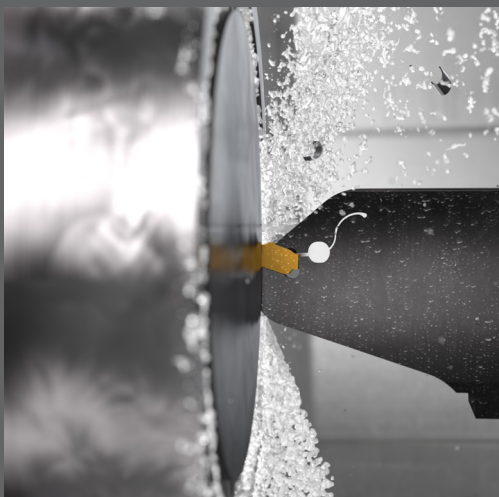
CoroCut® QI

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

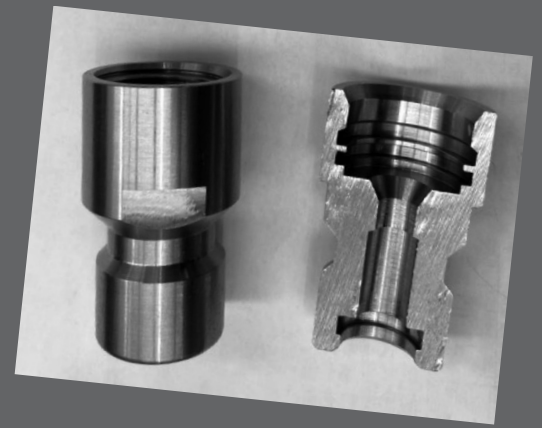
Competitor vs. CoroCut® QI

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
Tool life, pcs	3000	7000

Result: The reason for changing the competitor tool was poor surface finish. CoroCut® QI provided a secure and reliable process with 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

Head office:
AB Sandvik Coromant
SE-811 81 Sandviken, Sweden
E-mail: info.coromant@sandvik.com
www.sandvik.coromant.com

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