

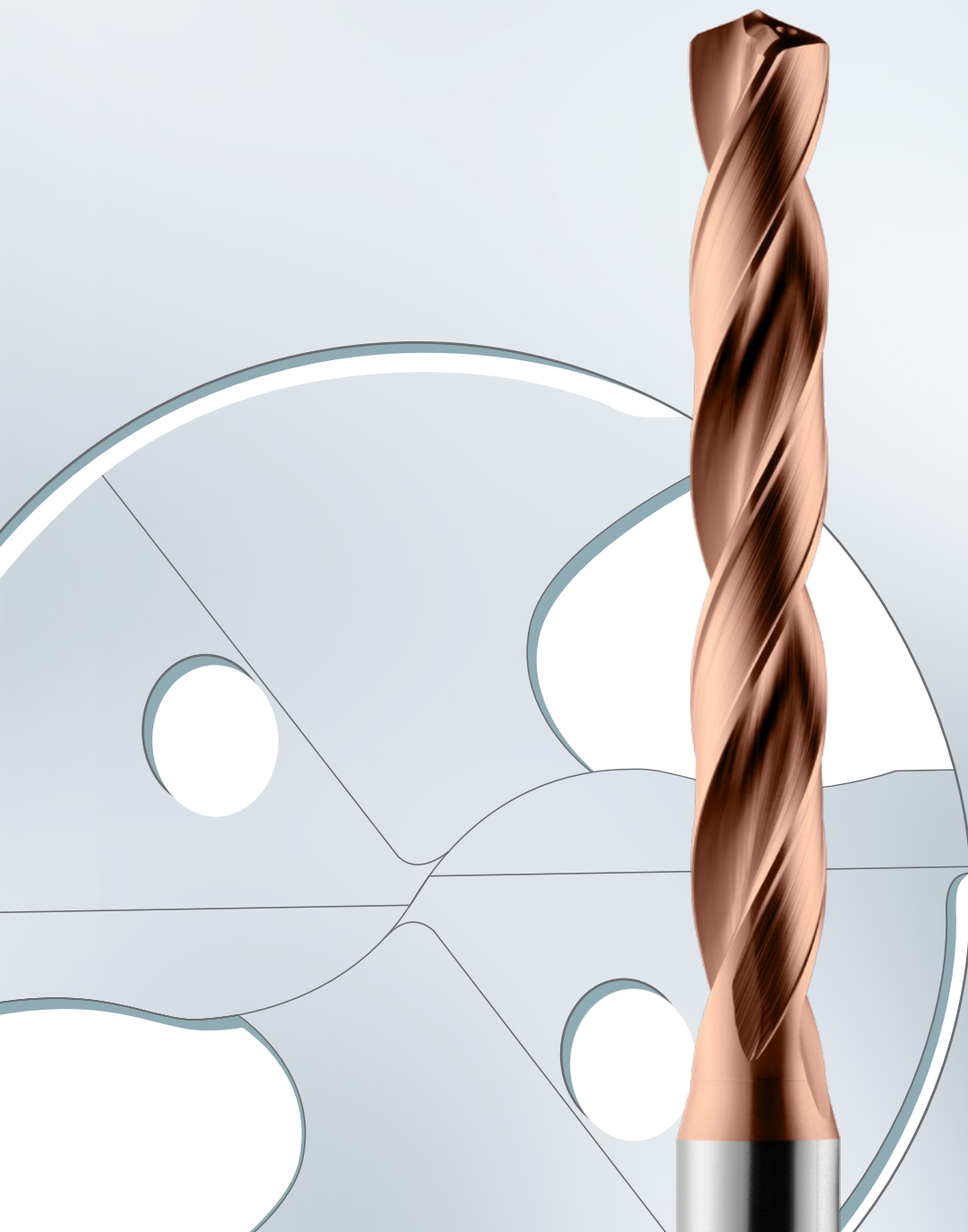
oerlikon
balzers

BALINIT OPTURA

Power.

Protection.

Performance.



Cutting Tools



BALINIT OPTURA – engineered for excellence in drilling steel and cast iron

Drilling is one of the most demanding machining processes with high requirements for precision, tool service life and process reliability across a wide range of materials and drilling depths. BALINIT® OPTURA was developed to meet these challenges. Its sophisticated multilayer coating design

ensures exceptional wear resistance, reliable performance and excellent borehole quality. From moderate applications to the most demanding deep-hole drilling across all steel and cast iron grades, the TiAlN-based PVD coating delivers outstanding performance and helps reduce cost per part.



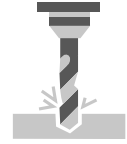
> 50% more performance*



Maximum process reliability

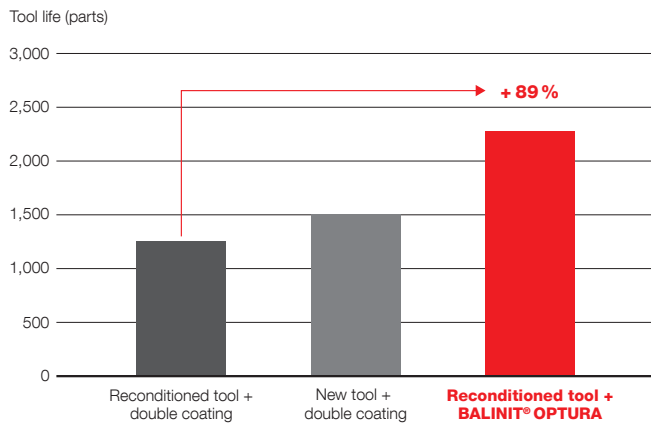


Reduced costs per part



Superior borehole quality

The coating your drills trust for every challenge



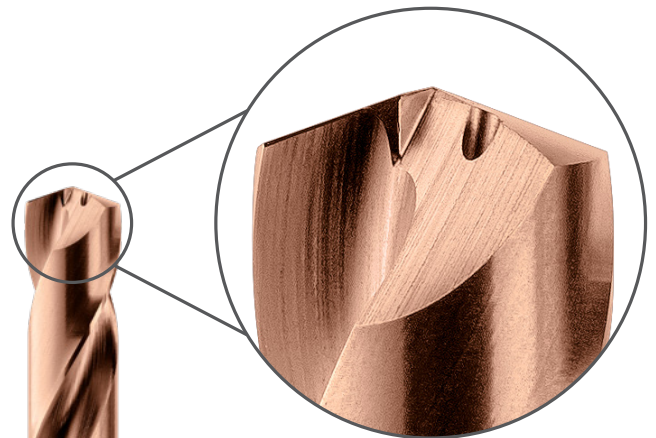
Tool	HP solid carbide drill
Workpiece	Spring steel, Rm ≈ 1'300 MPa
Cutting data	v _c ≈ 90 m/min v _f ≈ 800 mm/min MQL
Source	Tier 1 Automotive Supplier



Find out how you can save money and see even more test results that show why BALINIT® OPTURA is the coating your drills trust: www.oerlikon.com/balzers/balinit-optura

**Take your drilling to the next level.
Reach out to our experts!**

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The coating of choice for drilling, deep-hole drilling and reaming in:

- Unalloyed / carbon steels
- Low-alloy steels
- Case hardening steels
- Tool, bearing and spring steels
- Cold-working steels
- Hardened and tempered steels
- Cast iron (white, grey, malleable ductile, vermicular)

*On average compared to predecessor and competitor coatings.