STARTEC MT-1
PRECISION GRINDING WHEELS
FOR PRODUCING
HIGH-PRECISION MICRO TOOLS
STARTEC MT-1

System solutions comprising high-precision grinding tools and specially designed dressing wheels make up the STARTEC MT-1 product line from TYROLIT. Bespoke diamond qualities and an innovative bond structure ensure low grinding forces and particularly high cutting efficiency during the grinding process. Minimal reject-part rates and optimum ground tool quality are the result.

Low grinding forces: Innovative specifications ensure particularly high cutting efficiency when grinding and simultaneously guard against tool breakage due to overload during the grinding process.

Optimum edge retention: The special combination of bond, diamond quality and grit size extends the dressing interval and guarantees consistently high tool quality, even with large batches.

Example of application

Workpiece: Micro cutter d = 1.0 mm / Flute length l = 5.0 mm
Machine: Rollomatic Nano 6 / Cooling system: oil
Grinding wheel: D20M MT-1

Stable edge radius of 0.025 mm on the grinding wheel across the 200-piece production lot with STARTEC MT-1.

Edge radius after 200 pieces [mm]

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<th>STARTEC MT-1</th>
<th>0.025</th>
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<td>COMPETITION</td>
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Recommended dressing wheels

A400V for grit sizes > D15
A1200V for grit sizes ≤ D15

Application

Flute and face grinding of micro tools

Photo: Rollomatic SA

Simple profilability: The adapted bond system enables highly accurate profiles to be created in an extremely short time. TYROLIT offers dressing wheels that are ideally suited for this application.