



The micRun® collet holder system – ER re-invented

PRECISE

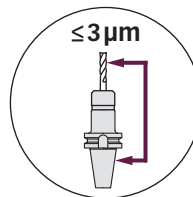
Total system TIR $\leq 3 \mu\text{m}$ at $3 \times D$

PERFORMANCE

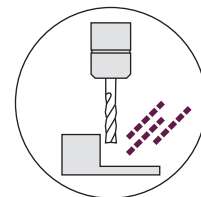
Best results at highest RPM

micRun®

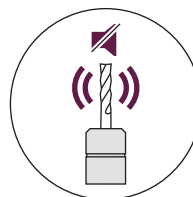
The creator of ER re-invents the collet system



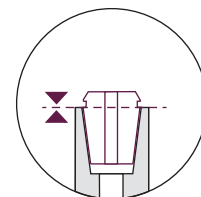
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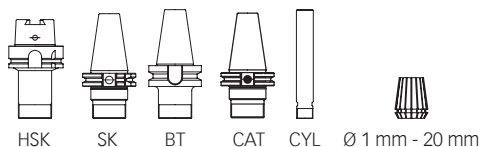
Designed for high-speed
cutting.



Silent and low vibration
due to grooveless
clamping nut.



«Deep-fit technology»
for better TIR and
torque.



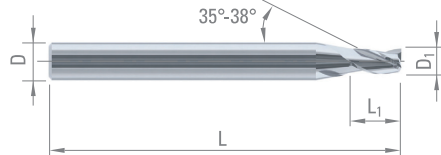
HSK SK BT CAT CYL Ø 1 mm - 20 mm


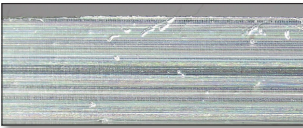



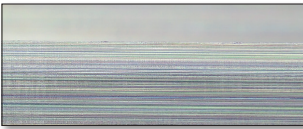

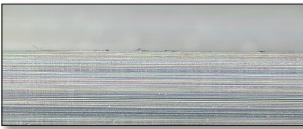
Toolholders in comparison

Different ER based toolholders were tested for TIR, tool-wear and surface quality.

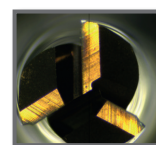
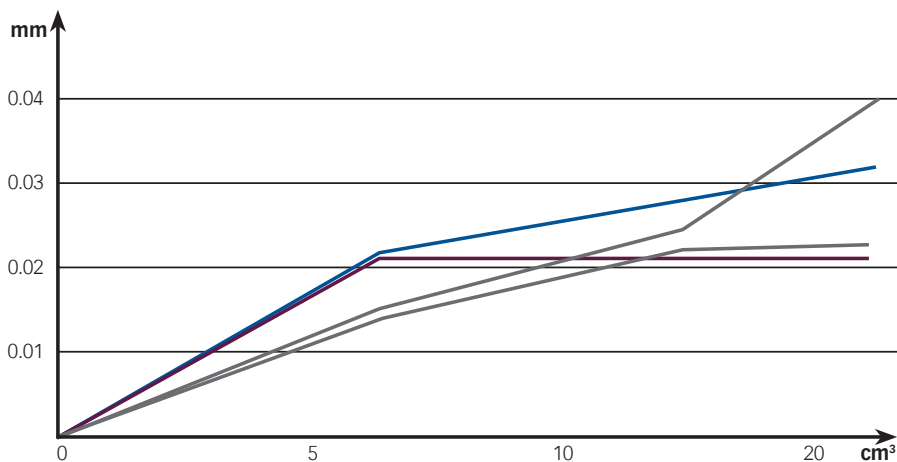
1. Application

Tool: DIXI carbide end-mill 7343	v_c: 80 m/min
Diameter: D_1 Ø 1.50 mm	f_z: 0.012 mm/tooth
Material: Austenitic steel, 1.4441	a_p: 3.2 mm

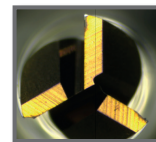


MANUFACTURER	TIR (Runout)	SURFACE QUALITY	REMARK
ASIAN PRODUCT	 14 µm	 R_{max} 0.92	Strong vibrations and sticking chips
SWISS PRODUCT	 10 µm	 R_{max} 0.83	Some vibrations and lightly sticking chips
REGO-FIX ER-UP	 5 µm	 R_{max} 0.80	Surface quality is good but light vibrations
REGO-FIX micRun®	 3 µm	 R_{max} 0.75	Surface quality is excellent and almost complete absence of vibrations

2. Wear marks (in mm) after metal removal volume (in cm³)



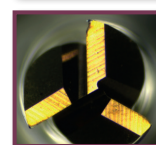
ASIAN PRODUCT



SWISS PRODUCT



REGO-FIX ER-UP



REGO-FIX micRun®