

# The micRun® collet holder system – ER re-invented

## PRECISE

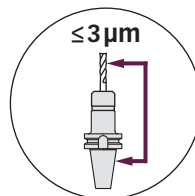
Total system TIR  $\leq 3 \mu\text{m}$  at 3 x D

## PERFORMANCE

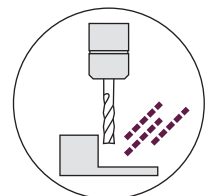
Best results at highest RPM

## micRun®

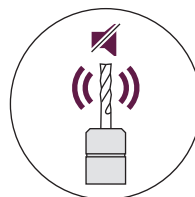
The creator of ER re-invents the collet system



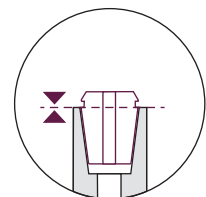
Total system TIR  $\leq 3 \mu\text{m}$   
at 3 x D.



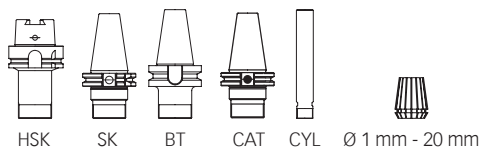
Designed for high-speed  
cutting.



Silent and low vibration  
due to grooveless  
clamping nut.



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

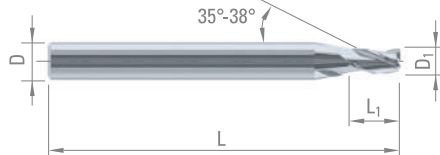


# Toolholders in comparison

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

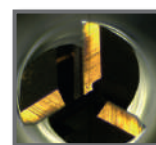
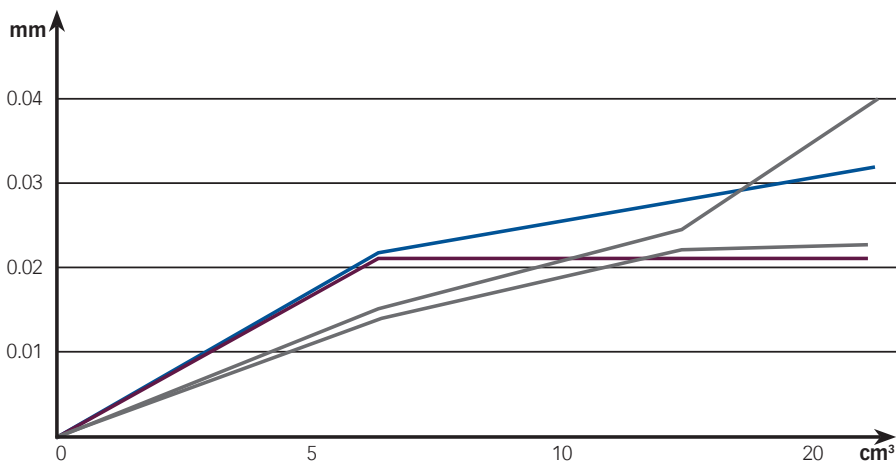
## 1. Application

<b>Tool:</b> DIXI carbide end-mill 7343	<b><math>v_c</math>:</b> 80 m/min
<b>Diameter:</b> $D_1$ $\varnothing$ 1.50 mm	<b><math>f_z</math>:</b> 0.012 mm/tooth
<b>Material:</b> Austenitic steel, 1.4441	<b><math>a_p</math>:</b> 3.2 mm



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

## 2. Wear marks (in mm) after metal removal volume (in $cm^3$ )



ASIAN PRODUCT



SWISS PRODUCT



REGO-FIX ER-UP



REGO-FIX micRun®