



# The micRun<sup>®</sup> collet holder system – ER re-invented

## PRECISE

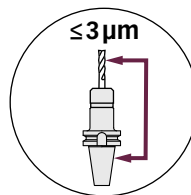
Total system TIR  $\leq 3 \mu\text{m}$  at 3 x D.

## PERFORMANCE

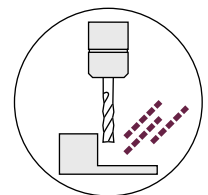
Best results at highest RPM.

## micRun<sup>®</sup>

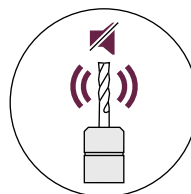
The creator of ER re-invents the collet system.



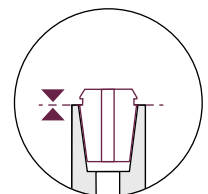
Total system TIR  $\leq 3 \mu\text{m}$  at 3 x D



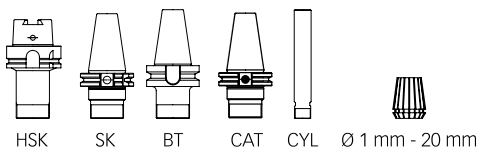
Designed for high-speed cutting



Silent and low vibration due to grooveless clamping nut



"Deep-fit technology" for better TIR and torque

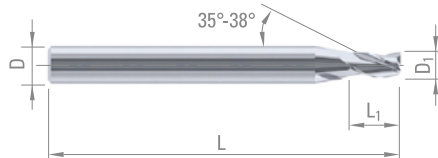


## Toolholders in comparison

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

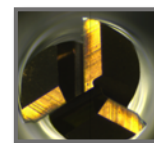
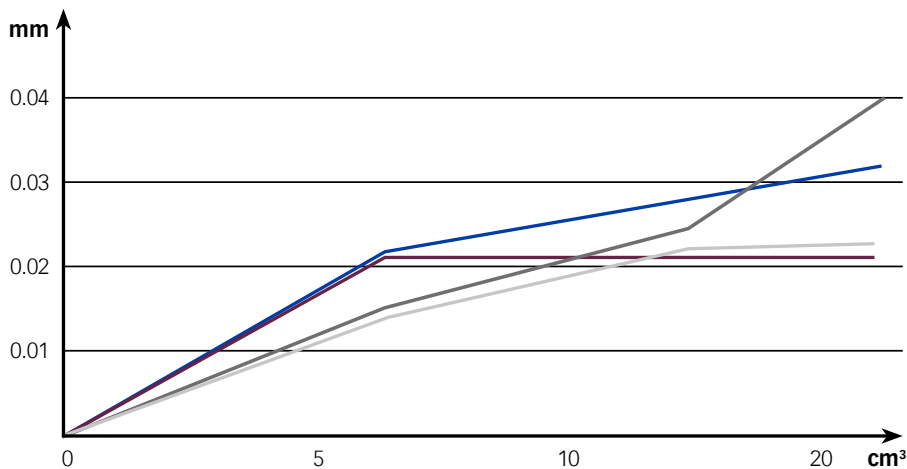
### 1. Application

<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

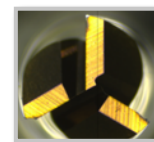


Manufacturer	TIR (Runout)	Surface quality	Remark
Product 1 Asian Product	14 $\mu$ m		$R_{max}$ 0.92 Strong vibrations and sticking chips
Product 2 Swiss Product	10 $\mu$ m		$R_{max}$ 0.83 Some vibrations and lightly sticking chips
Product 3 REGO-FIX ER-UP	5 $\mu$ m		$R_{max}$ 0.80 Surface quality is good but light vibrations
Product 4 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<sup>3</sup>)



Product 1  
Asian Product



Product 2  
Swiss Product



Product 3  
REGO-FIX ER-UP



Product 4  
REGO-FIX micRun®

