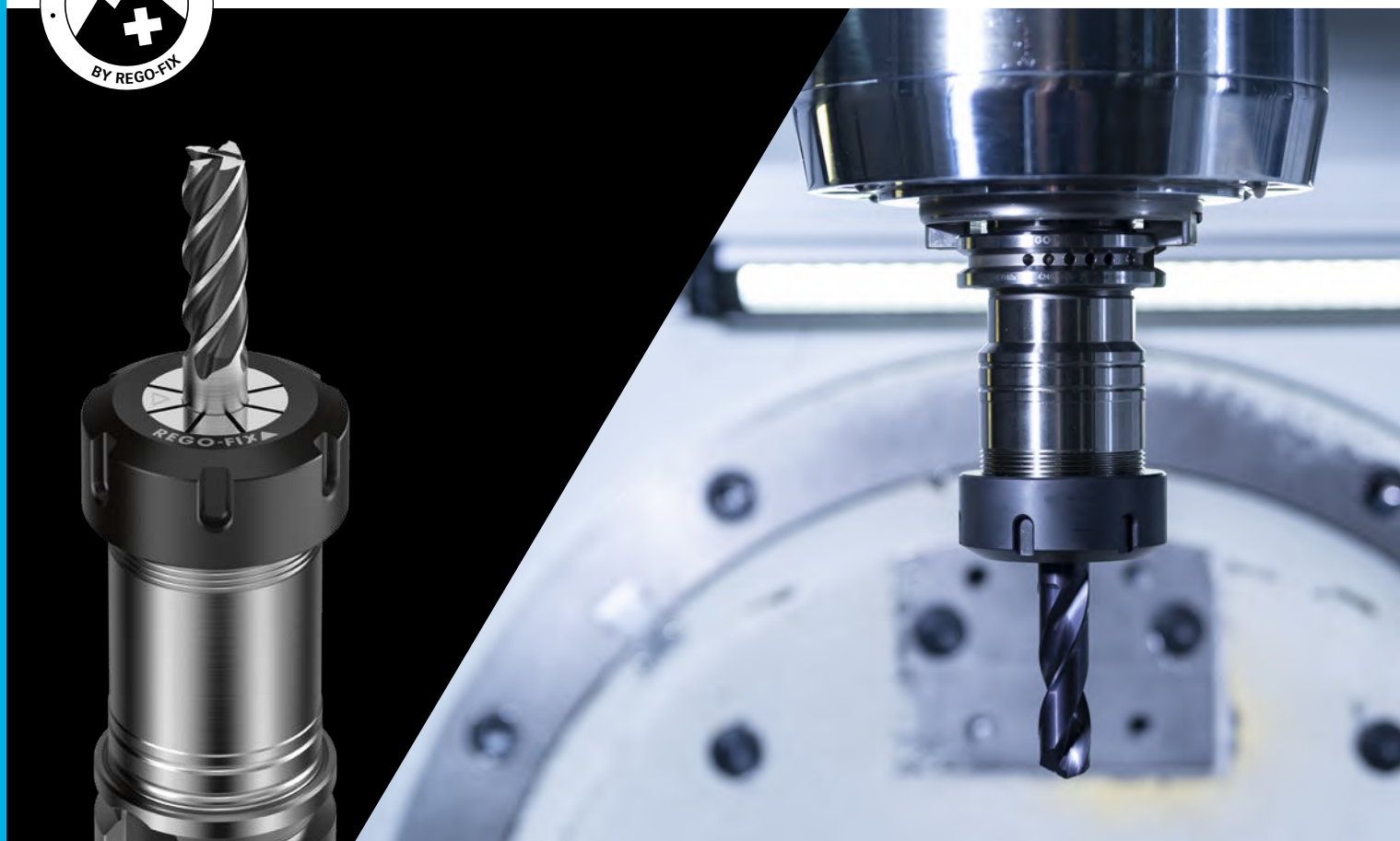




REGO-FIX



REGO-FIX ER System – The Original

VERSATILE

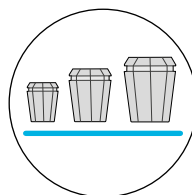
Broadest ER product range on the market.

ESTABLISHED

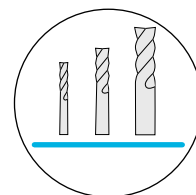
The most widely used tool clamping system in the world.

REGO-FIX ER

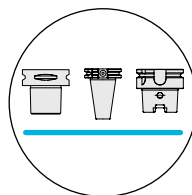
Precisely matched and highly accurate products for the ER System.



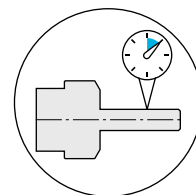
ER collets from
ER 8 to ER 50



Tool shanks clampable
from 0.2 to 36 mm



For many spindle interfaces available
including BIG PLUS and CAPTO

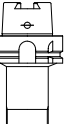
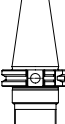
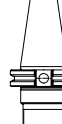
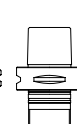
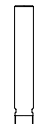
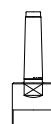
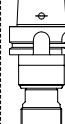
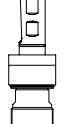
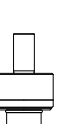


Highest concentricity
accuracy from 2 to 10 μm



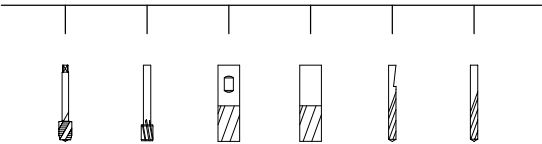
www.rego-fix.com

Discover our ER products

Standard					Cylindrical collets					Colletholders for tapping			Floating chucks		Collet reductions	
HSK/ER	SK/ER	BT/ER	CAT/ER	CAPTO/ER	CYL/ER	CYL/ERM(X) CYLF/ERM(X)	CYL/ER NC	CYDF/ERM CYDF/ERM(X)	MK/ER	SH/ER	ISO 20/ER	HSK-A SSY	CYL SSY CYL GSF	PH/ER PHC/ER PHC-C/ER	MPH/ERM(X)	ER(M)/ERM ER(MX)/ERM(X)
																

Micro-machining	Standard and ultraprecision	micRun®	Metallic sealed	Pullout protection secuRgrip®	Collets for tapping	
ER-MB	ER-Standard/ ER-UP	MR	ER-DM	ER-SG	ER-GB	PCM ET1
						

Standard		Standard with bearing		Mini nut		Slip-off proof mini nut		External thread			Sealing and coolant flush disks		
Hi-Q®/ER	Hi-Q®/ERC	Hi-Q®/ERB	Hi-Q®/ERBC	Hi-Q®/ERM	Hi-Q®/ERMC	Hi-Q®/ERMX intRlox®	Hi-Q®/ERMXC intRlox®	ER MS	Hi-Q®/ERAX	Hi-Q®/ERAXC	reCool® RCR/RCS ERAX	DS/ER	KS/ER
													



Did you know

When REGO-FIX first introduced the ER System in 1972, it took the machining world by storm. With the DIN 6499 standardization twenty years later, the REGO-FIX ER collet became the industry standard. Today, the ER System is still the most used toolholding system worldwide. Get the Original from the inventor.

Highlights



PLUS/XL holders Large REGO-PLUS program with BT+ for ER + PG.



INOX Stainless material offers ultimate corrosion protection, for EDM and corrosive applications.



secuRgrip® Absolute pull-out protection with standard tools.



ER floating holder Adjustable parallel compensation function to make up for axial displacement issues between tool and bore centre.



TCD-Taper Cleaning Device Solvent-free mechanical cleaning of the spindle interfaces. Tool holder service life increases, costs for new procurement decrease.



TORCO-BLOCK The most convenient and safe tool assembly aid on the market with integrated tightening force indicator for all collet systems.



SSY-Tapping chuck For machine tools where the feed movement during machining is not synchronised with the tap pitch.



reCool® The patented solution for retrofitting driven tools with internal cooling.

Interview



Alan Handschin
Product manager for reCool® + ER

For which customers could reCool® be particularly interesting?

AH: For all customers that have turning and Swiss machines. Even modern machines often do not come with adequate cooling solutions.

How are the initial costs of reCool® legitimized, considering the investment costs for a new production machine?

AH: A complete reCool® retrofitting of an entire machine costs only a fraction of the price of machines with internal cooling.

Taking into account modern production trends like 3D printing, how are the market developments for turning and reCool® in particular?

AH: Turning applications will remain an integral part of manufacturing, as production costs per part are extremely low. With a focus on high-tensile materials, that need lubrication and cooling while machining, reCool® provides a crucial benefit.

Uncompromising quality

REGO-FIX



Hi-Q®/ER clamping nuts with corrosion-resistant surface are standard. Up to 40% higher clamping force.



Hi-Q®/ER clamping nut after 100 clamping cycles



All REGO-FIX ER collets are manufactured to the highest quality standards, in terms of surface quality and concentricity.

Surface shown schematically



Surface roughness

$$R_a = 0.04$$

Chatter pattern REGO-FIX (workpiece surface)



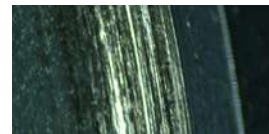
Competitors



Bare metallic clamping nut: standard competitor product.



Bare metallic clamping nut after 15 clamping cycles



Black oxidised clamping nut after 15 clamping cycles



Standard ER collet (Competitor)

Surface shown schematically



Surface roughness

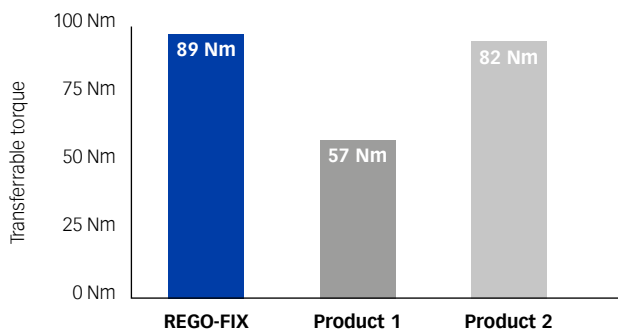
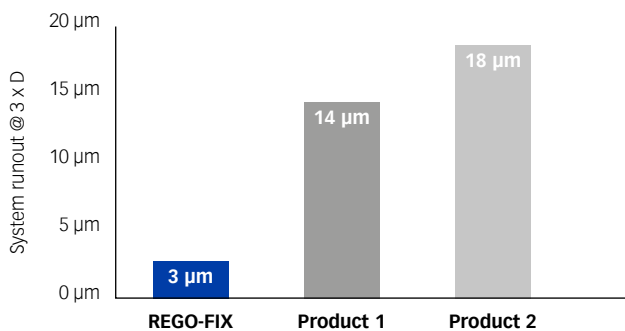
$$R_a = 0.276$$

Chatter pattern competitor (workpiece surface)



System comparison ER systems

The systems concentricity at 3 x D (Ø 12 mm carbide test rod) and the transferrable torque were measured for REGO-FIX as well as for two commercially available products.



Result

- ✓ Long tool life and best results through minimised concentricity errors
- ✓ Optimum milling results due to balanced system components
- ✓ Perfectly matched ER components result in minimum concentricity errors and high power transmission

REGO-FIX AG

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www.rego-fix.com