



# REGO-FIX ER System – The Original

### VERSATILE

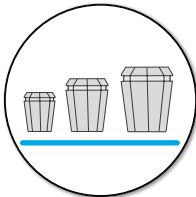
Broadest ER product range on the market

### ESTABLISHED

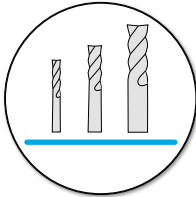
The most widely used tool clamping system in the world

### REGO-FIX ER

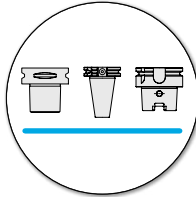
Precisely matched and highly accurate products for the ER System



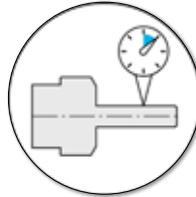
ER collets from ER 8 to ER 50



Tool shanks clampable from 0.2 to 36 mm



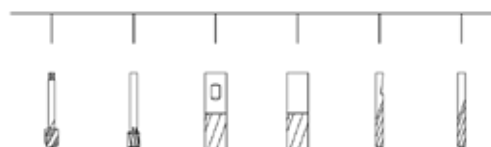
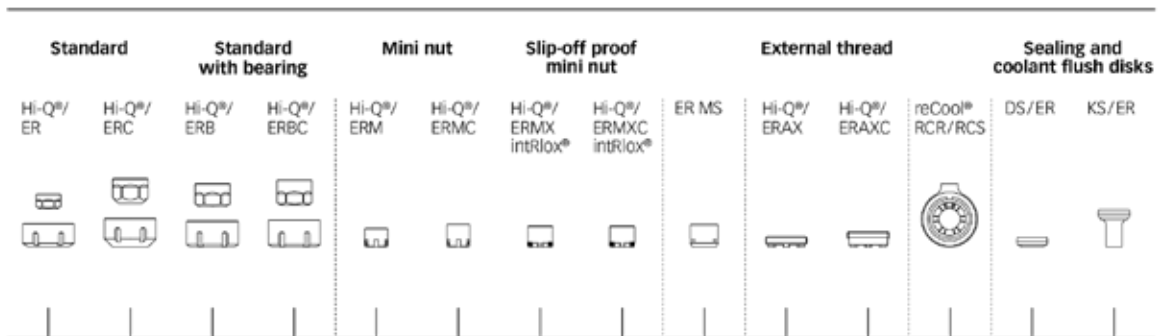
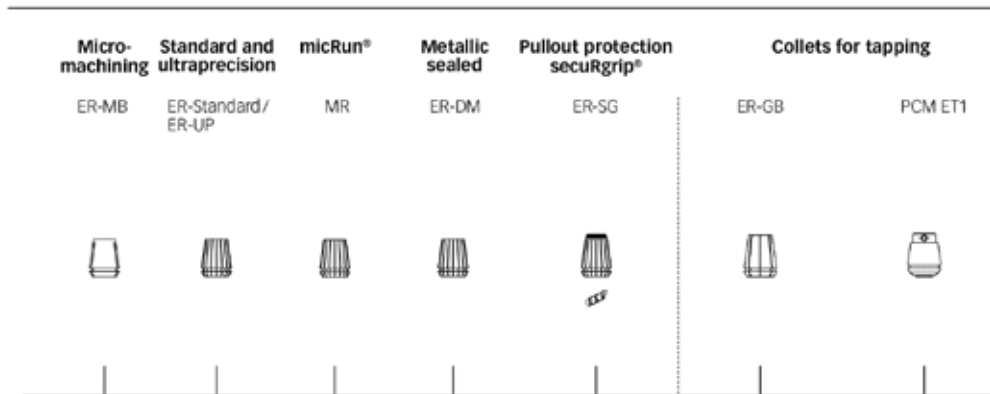
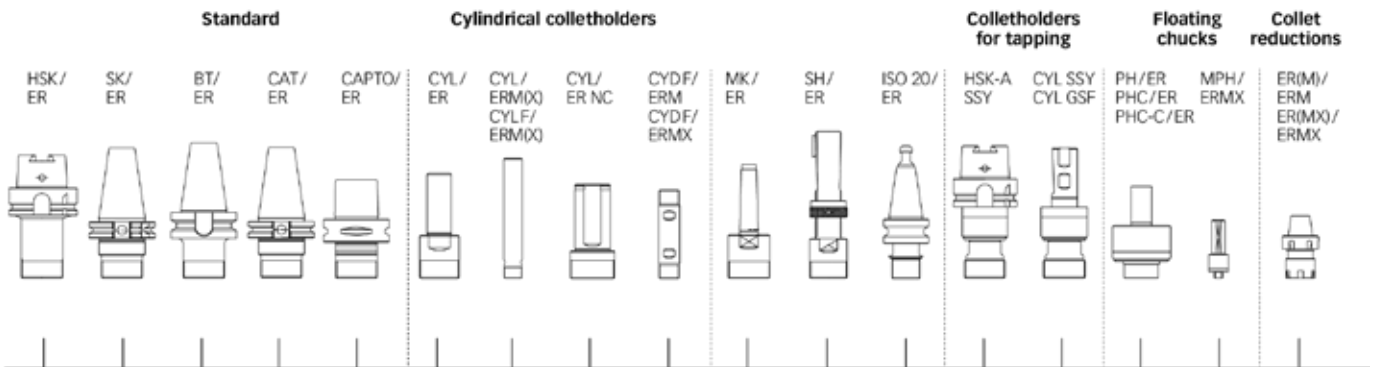
For many spindle interfaces available including BIG PLUS and CAPTO



Highest concentricity accuracy from 2 to 10 µm



# Discover our ER products



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.

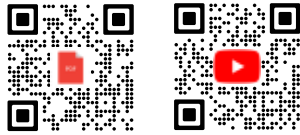
# Highlights



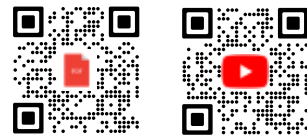
**PLUS / XL holders** Large REGO-PLUS program with BT+ for ER & PG.



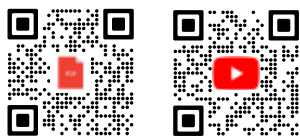
**INOX** Stainless material offers ultimate corrosion protection, for EDM and corrosive applications.



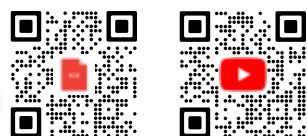
**secuRgrip®** Absolute pull-out protection with standard tools.



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



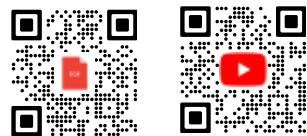
**TCD-Taper Cleaning Device** Solvent-free mechanical cleaning of the spindle interfaces. Tool holder service life increases, costs for new procurement decrease.



**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

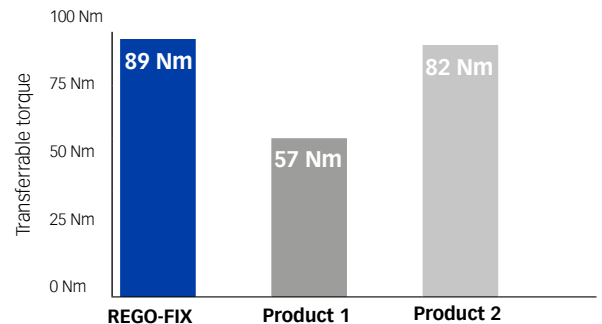
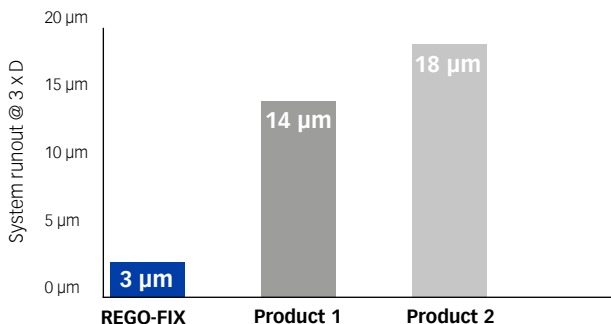
$$R_a = 0.276$$

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