

**Product Highlights** 2018





# Achieve toolholding excellence

REGO-FIX toolholding systems excel with extraordinary **reliability**, **high precision** and **outstanding quality**. Each system has different strengths to fit your machining needs, equipping you with toolholding excellence and performance to maximize your production efforts.

#### Three systems – one brand

- // powRgrip® System: for high-end machining reliable performance for high-speed milling and drilling
- // micRun® System: high-precision for microtooling
- // ER System: for standard machining the original ER clamping system

#### **Driving innovation for 65 years**

Up to 140 patents in over 140 countries

#### From the cradle of precision

REGO-FIX designs, manufactures and tests all our "Swiss made" marked products in a state-of-the-art, ISO-certified facility in Switzerland – in accordance with our high standards of precision and quality – to ensure you are equipped with the industry's finest toolholding products.





# Serving fast-paced industries with the highest demands for precision

REGO-FIX is well-known for providing superior products that offer unmatched precision and quality. It is because of this that our products excel in industries where high-end, high-tolerance product applications continue to grow and increased product demands call for even tighter tolerances. *Aerospace, medical, automotive, firearms/defense* and *3C manufacturing* as well as job shops and die mold companies all turn to REGO-FIX as they continually strive to build a better product and stay competitive.



# **ER Collets**

#### Successful clamping since 1972

REGO-FIX's ER Collet System is ideal for a variety of machining applications including milling, drilling, reaming, tapping and grinding. Invented by REGO-FIX in 1972, the innovative and flexible ER Collet System is the most widely used and accepted collet clamping system in the world!

REGO-FIX collets are available in two levels of precision: Standard precision and ultra-precision (UP).



#### Rely on the original

#### Wide clamping range

The slot design allows for a wide clamping range with a continuing best runout TIR.

#### **Broad range of products**

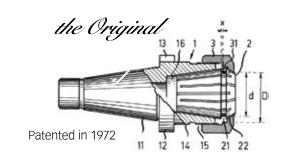
We offer sizes from ER 8 up to ER 50 and diameters from 0.0079"(0.2 mm) to 1.4173" (36 mm).

#### Up to 20 % more clamping length

Improve your runout with up to 20% more clamping length in smaller diameters.

#### Matched tooling system for best fit

The compatibility of the entire system results in maximum precision, balance and tool life.



#### **ER collet options** UP DM microbore standard ultrametallic secuRgrip® tapping tapping collet precision sealed collet rigid tapping Main machining use microall high internal heavy rigid with axial machining precision cooling machining tapping compensating

# What makes REGO-FIX collets different?

REGO-FIX's ER Collet System is recognized world-wide as the most accurate, consistent and repeatable.

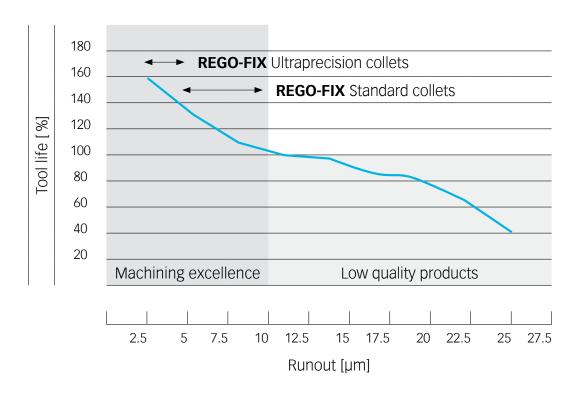
- // Process control for batch-to-batch consistency
- // All ultra-precision (UP) collets are inspected to assure 100% compliance
- // Guaranteed TIR over the FULL clamping range.
- // Superior surface finish provides improved accuracy of fit.
- // Special formulated spring steel for better wear, longer life and improved flexibility.

If you wear out one endmill cutter per day at a cost of \$50 each, you could save close to \$8,000 annually PER toolholder by simply switching from a side lock endmill holder (typical TIR = 0.0010") to a REGO-FIX ER collet toolholder (TIR = less than 0.0004")!



#### **How TIR Impacts Tool Life**

By putting your endmills, drills and reamers in better quality toolholders and ER collets from REGO-FIX, you can benefit from lower TIR and realize significant cost savings!



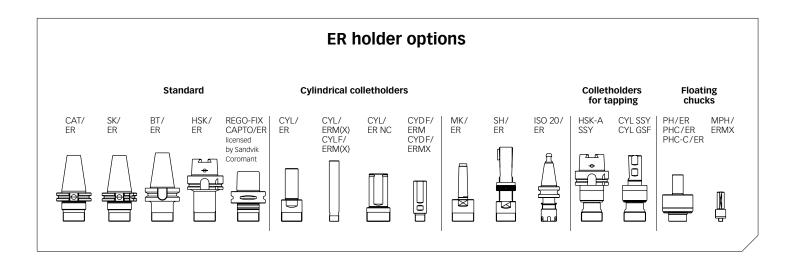


# **ER Toolholders**

Minimize runout – boost productivity

REGO-FIX's ER System toolholders come in a wide offering to meet the growing variety of spindle configurations available in the machining industry. All ER toolholders are manufactured in Switzerland utilizing ISO quality systems and proprietary in-process manufacturing controls.

The ER colletholder, collet and Hi-Q® nut together make the ER System a solid option for traditional machining applications. What you see is what you get: all our products bear the REGO-FIX triangle – our seal for outstanding Swiss quality.



#### What makes REGO-FIX toolholders different?

REGO-FIX's ER toolholders are designed and manufactured with the tightest standards and tolerances found on the market. This allows us to hold our dimensions to a more narrow tolerance, providing better fit and accuracy.

- // 3-point measurement of all AT3 steep tapers better fit
- // Tighter thread tolerance higher holding torque and lower TIR
- // Collet to taper TIR of less than 0.0001" (3 µm) longer tool life
- // Unique 100% precision balancing the highest rpm
- // Special formulated steel improving wear and strength
- // Full lot traceability maximum reliability and process control

In addition to producing the many standard holder versions (CAT, BT, SK, HSK), REGO-FIX also is a certified and licensed manufacturer of specialized taper formats, including: REGO-FIX CAPTO, REGO PLUS and REGO XL holders.





**Certified by Sandvik** 





BIG Plus – licensed by BIG Daishowa





**REGO-FIX XL holders** 

## **ER Nuts**

REGO-FIX's ER collet clamping nuts are manufactured to exacting tolerance – tighter than established DIN 6499 standard requirements – for the purpose of attaining a better "fit" between the matching ER toolholder and collet.

#### Wide selection available

- // Includes friction-bearing for higher clamping force
- // Available with sealing disk for coolant through tools
- // Mini nut with minimal external diameter
- // Mini high-speed clamping nut (for high rpm)
- // Externally threaded clamping nut for floating chucks, ERA Zero-Z® colletholder and live tooling
- // Slip-off proof mini clamping nut intRlox® for safe assembling



#### Rely on the original

#### Collet locking-system (pat. pend.)

Retains collet in nut for easier assembly.

#### Balancing

Ideal for high-speed applications.

#### Higher transferable torque

Lower frictional forces resulting in up to 80% higher gripping force over standard non-treated clamping nuts.

#### **Protection against corrosion**

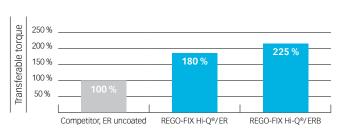
With a special treatment of the surface for longer life.

#### **Optimal contour**

Rounded thread start prevents damaging of collets on tool changes.

#### Torque comparison of different clamping nuts

REGO-FIX Hi-Q®/ER and Hi-Q®/ERB vs. competitor nuts (Source: In-house testing)



# ER collet nut options





Hi-Q® / ERB







Hi-O® / ERAX

slip-off proof



Hi-Q® / ER

standard nut with frictionbearing for higher clamping force

mini nut

slip-off proof mini nut

external thread and

up to 80,000 rpm

ER MS\*

\*No coolant version available

# Hi-Q®/ERMX and Hi-Q®/ERMXC intRlox®

#### **Features**

- // For REGO-FIX ER toolholders with mini thread & cylindrical holders
- // Available in ER 8, ER 11, ER 16, ER 20 and ER 25 series
- // Coolant versions available (ER 16, ER 20 and ER 25 only)
- // Hi-Q® design for added clamping forces
- // Compatible with standard mini nut thread design
- // Works with REGO-FIX sealing disks (DS/ER) and coolant flush disks (KS/ER)

#### **Key advantages**

- // Design is ideally suited for lathes and Swiss turning machines
- // Slim design suitable for machines where space is limited
- // Safe handling thanks to the patented intRlox® profile
- // Slip-off proof design with all the advantages of a regular mini clamping nut
- // Easy and safe clamping with the MX wrench or socket head





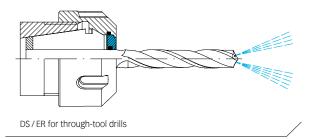
# Affordable solution for internal cooling

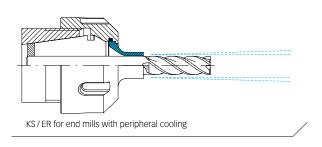
Our sealing disks allow you to use your regular non-sealed collets for internal cooling, saving you acquisition costs for new collets.

#### **Key advantages**

- // Sealing range of 0.5mm
- // For applications up to 2100 PSI
- // Protects against all kinds of dirt and chips entering the slots on the collet
- // O-ring for aggressive coolant (VITON®-quality)
- // Quick change of sealing disks according to required tool shank diameter
- // Better cooling and lubrication; extends too life and supports chip removal
- // Universal use with all REGO-FIX collets and coolant nuts







# reCool®

#### Maximum cooling possibilities

reCool is made for static and rotary applications and offers cooling possibilities for peripheral and internal cooling while making the best use of your existing toolholding equipment.

#### **Rotary reCool (RCR)**



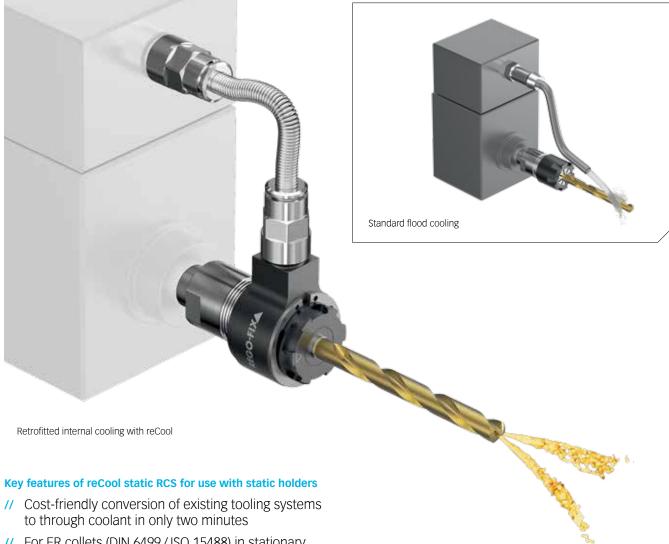
#### Key features of reCool rotary RCR for use with spindles

- // Cost-friendly conversion of existing tooling systems to through coolant in only two minutes
- // Available in ER 11, 16, 20, 25, 32, 40
- // For ER and ERM nuts in driven tools and turning machines and for ER collets to ISO 15488 / DIN 6499
- // Speeds up to 12,000 rpm\*
- // Coolant pressures up to 58 bar / 800 PSI in RCR / ER\*\*
- // Maintenance-free coolant lubricated bearings
- // For coolant through tools (with sealing disks DS) and for peripheral cooling (with coolant flush disks KS)
- // For both emulsion and oil coolants
- // Convert inner-threaded driven tools to outer-threaded, using the reCool adapter.
- // Not for use with sealed collets
- \* 6,000 rpm with RCR / ER 40.
- \*\* Coolant pressures up to 100 or 150 bar / 1400 or 2100 PSI for RCR/ERM.



See reCool and our other ER products in action by scanning the QR code above

#### **Static reCool (RCS)**



- // For ER collets (DIN 6499 / ISO 15488) in stationary colletholders with external fine threads\*
- // Coolant pressures of up to 150 bar / 2100 PSI\*\*
- // Speeds of up to 12,000 rpm
- // RCS / ERMX for emulsion and oil coolants
- // Low-maintenance design
- // For coolant through tools (with sealing disks DS) and for peripheral cooling (with coolant flush disks KS)
- // intRlox (ERMX) nut design for safety
- reCool static can also be used for internal threading with the corresponding adapter.
- \*\* With high-pressure hoses RHS-HP. 100 bar/1450 psi with standard hose.

#### **Advantages of internal cooling with reCool**

- // Optimum coolant supply for all tools, also for difficult to access machining
- // No scattering or spray losses
- // Optimized coolant quantity for each tool
- // Increased chip removal
- // Directs coolant straight to cutting tool



# **REGO-FIX micRun®**

Closing the gap between the powRgrip<sup>®</sup> and the ER System, the micRun System provides a total system runout of  $\leq 3 \mu m$ .

**swiss high precision** An excellent runout accuracy paired with low vibration not only boosts your machining quality, but enhances your overall productivity and increases your tool life, thus successfully lowering your cutter costs. With a total system runout of  $\leq 3 \, \mu m$  at  $3 \, x$ D, the micRun System provides all the benefits of excellent runout accuracy and the highest clamping force. This is why micRun is the ideal system for all micro machining applications and is successfully used in industries like watchmaking or medical engineering.

micRun (MR) holder and nut options								
	Standard					MR nut options		
CAT MR	/ SK/ MR	BT/ MR	HSK/ MR	CYL/MR CYL/MRM	Standard	Mini nut		
			<b>A</b>	Π	MR MRC	MRM MRMC		

#### **Every micron counts**

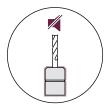
REGO-FIX's micRun system is manufactured to standards even tighter than our ER line. micRun is designed to provide the best combination of 3  $\mu$ m TIR (0.0001" assembled), clamping force and operator ease of use.

# What makes REGO-FIX micRun different?

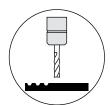
- // 3  $\mu$ m (0.0001") assembled TIR at 3 x diameter
- // Self-locking design retains the micRun collet in the nut for easier insertion and removal. No extractor required
- // Symmetrical design without grooves or flats for quiet running
- // Special Hi-Q process for improved clamping forces
- // Special thread design to keep nut aligned with the holder for improved TIR repeatability and rigidity



In high rpm office machines with low force and limited space, micRun® is the ideal well-balanced toolholding solution with low runout TIR.



The smooth design and grooveless clamping nut allows for quiet machining and prevents abrasive dust from settling on the toolholder.



The slim micRun design is an important feature in milling small cavities where minimal interfering contours are mandatory.



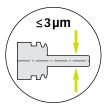




# The powRgrip® System

REGO-FIX's powRgrip System (PG) provides excellent runout and high-vibration damping as well as easy and secure handling for demanding high-speed milling and drilling. With its award-winning design, powRgrip is also the <u>safest</u> clamping system available: no heat, no fumes and no EMF radiation.

#### **Key advantages**



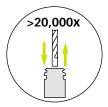
Total system runout TIR  $\leq 3 \mu m$  at  $3 \times D$ .



Tool ready for use in less than 10 seconds.



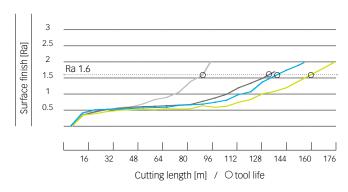
Excellent vibration dampening.



Maximum clamping force and low runout, even after 20,000 tool changes.

**Power and precision combined** An outstanding tool runout is one of the most positive influences on enhancing your tool life.

#### Increased cutter tool life with the powRgrip System



powRgrip®

REGO-FIX ER system with Hi-Q® clamping nut

Shrink-fit

Hydro-chuck

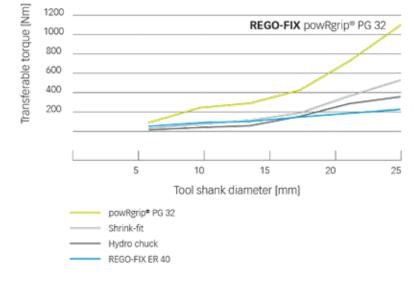
#### The safest, fastest and strongest toolholding assembly system

#### The powRgrip System consists of

- // High-precision powRgrip collet
- // powRgrip toolholder
- // powRgrip clamping unit (automatic or manual)

#### **How the powRgrip System works**

- // Insert the powRgrip collet into the powRgrip toolholder
- // Insert the cutting tool into the powRgrip collet
- // Clamp collet and cutting tool into the powRgrip toolholder with a powRgrip clamping unit PGU (automatic) or PGC (manual)



Measured transferable torque per shank diameter / Source: In-house testing

Transferable torque of the powRgrip® System



Cutting tool



powRgrip collet







powRgrip toolholder



See how powRgrip works by scanning the QR code above



# **PG Toolholders**

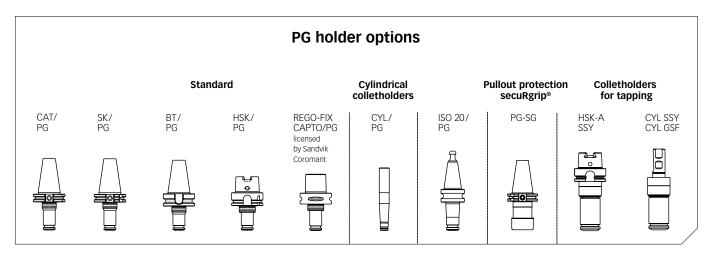
powRgrip toolholders are designed with a highly precise internal taper that accepts the matching taper of the powRgrip collets. This provides an unmatched level of accuracy and flexibility allowing you to interchange collets and customize your powRgrip toolholder to hold a variety of inch, metric, coolant-through or coolant-flush options.

There are multiple nose profile options that are available in most all taper designs. Not only does REGO-FIX produce popular holder versions (CAT, HSK, BT, SK) that are used worldwide, but REGO-FIX is also a certified and licensed manufacturer of specialized taper formats in powRgrip, including:



BIG Plus- licensed by BIG Daishowa

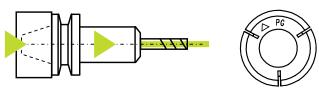




## **PG Collets**

#### powRgrip Standard Collets (PG)

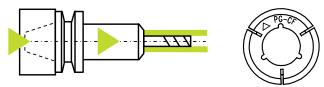
Standard PG collets can be used either with non-coolant or with coolant-through tools. Each collet is mechanically sealed by the slot design for internal through the tool coolant, handling up to 2000 psi of high pressure coolant.



Metallically sealed for coolant through tools

#### powRgrip Coolant Flush Collets (PG-CF)

Coolant flush collets direct the coolant along the outside of an endmill cutting tool shank, resulting in a high-pressure peripheral "sleeve" of coolant flowing around the shank and to the cutting edges of the endmill.



With coolant channels for peripheral cooling

#### powRgrip Short Shank Collets (PG-S)

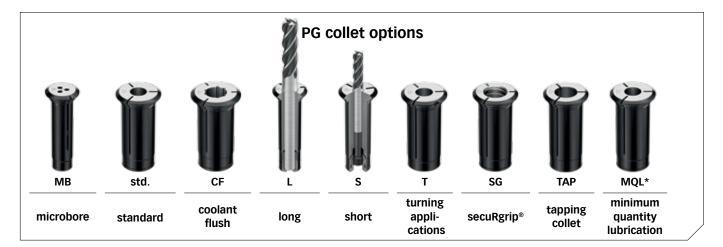
Short shank collets are designed for cutting tools that have a shank length too short for our standard collets. In general these collets have a 3-6mm shorter engagement than standard collets.

- // Minimal loss of concentricity
- // Includes back-up screw for presetting tool projection length with presetting device (VEW)
- // Suitable for coolant through tools
- // Available for PG holders in PG series 6,10,15, 25 and 32

#### powRgrip Long Shank Collets (PG-L)

Long shank collets are designed for cutting tools that have a shank length too long for our standard collets. In general these collets have a 3-6mm longer engagement than standard collets.

- // No clamping force loss
- // No concentricity loss
- // Suitable for coolant through tools
- // Available for PG holders in PG series 15, 25, 32



# secuRgrip®

Form-fit for 100% pullout protection, our innovative secuRgrip® solution offers a total tool pullout protection for the PG System.

Full protection where you need it The secuRgrip threaded insert is designed to fit in any tool with a Weldon flat in the special collet. This way you can use the tool of your choice. In combination with our PG secuRgrip cap, we offer the ultimate tool pullout protection at a competitive price. Avoiding length alterations caused by tool pullout results in improved process reliability and ultimately improves your overall machining productivity. Our secuRgrip solution is available for PG 15, PG 25 and PG 32 – just the right sizes when it comes to rough machining.

#### **Key Advantages**

- // No additional costs for replacing damaged tools, thanks to PG secuRgrip
- // No modification of the tool shank is required
- // Extra protection for worry-free machining, especially with expensive work pieces



PG secuRgrip is available for all standard tools with Weldon flat (10 – 25.4 mm), without additional modifications.



# All-new Heavy Duty secuRgrip toolholders

HD-SG PG Holders New Heavy Duty secuRgrip tool holders are up to two times more rigid than standard holders. And, they include secuRgrip design for 100% protection against tool pullout.

#### **Features**

- // Includes secuRgrip design to prevent pullout
- // Most designs retain the use of balance rings
- // Fits existing powRgrip clamping units

#### **Key Advantages**

- // Up to 2 times more rigid than standard holders
- // Increases feed rates to maximize tooling efficiency
- // Better surface finish with less deflection



# powRgrip machine options



#### PGU9500 automatic press

- // Automated hydraulic press using up to 9 tons of force, dependent on PG series
- // One-button clamping operation in less than 10 seconds
- // Accepts all PG series (6,10,15,25,32) via interchangeable dies
- // Unique die system maintains accuracy, safety and repeatability on each and ever tool press
- // No setting of parameters; pressure dependent upon die inserted into machine
- // No heat so no risk of burns
- // No toxic fumes from shrinking
- // Utilizes standard 120v or 220v power

#### PGC2506 manual press

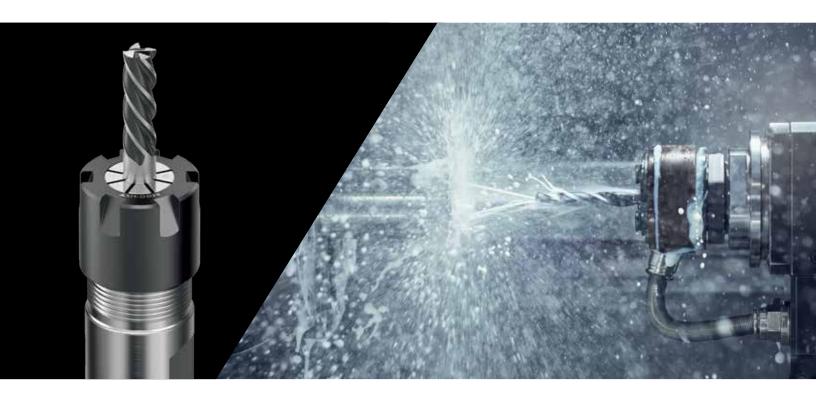
- // Manual, hand-pump hydraulic press using up to 6 tons of force
- // Accepts PG series 6,10,15 and 25
- // Operator acuates the pressure by use of the lever arm until pressure is achieved
- // Unique die system to maintain accuracy, safety and repeatability on each and ever tool press
- // No heat so no risk of burns
- // No toxic fumes from shrinking





#### **Zoller Venturion w/ powRgrip automatic**

- // ZOLLER image process software "pilot"
- // Ergonomic operating elements
- // Robust and able to withstand shop floor conditions
- // Membrane keyboard for power-operated spindle clamping and spindle braking
- // Versatile adaption to your production
- // Autofocus and rotary encoder
- // REGO-FIX powRgrip System
- // No heat so no risk of burns
- // No toxic fumes from shrinking



# **Swiss automatic tooling**

## **ER tooling for Swiss type automatics**

REGO-FIX manufactures the most accurate and widest selection of collets and cylindrical holders in the world. As the demand for more accuracy in many Swiss machine applications has grown, our offerings and precision have expanded to meet these needs.

#### Options include:

- // Cylindrical shanks
- // Cylindrical shanks with flats
- // Doubled ended
- // SwissQuick adapters
- // reCool (see pages 8-9 for more info)
- // Microbore collets
- // Floating and mini-floating holders

All of these cylindrical holders and adapters come with our Hi-Q mini-nut design to provide ample clearance. Additionally, all mini-threaded holders can fitted with the intRlox anti-slip nut for additional safety (see page 7 for more info).





#### **SwissQuick-ER to ER adapters**

The SwissQuick is a short "mini-holder" with a solid ER body profile on the back end and a smaller ER series cavity on the front end. The SwissQuick adapter offers a unique means to preset tool length offline for replacing worn tools in a matter of seconds. These range from ER 11 to ER 32, with a variety of ER cavity outputs from ER 8 to ER 20.

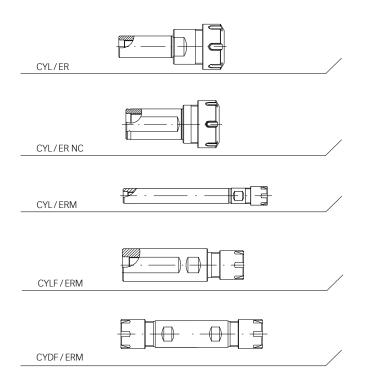




#### What makes our cylindrical holders better?

Years of experience and development at REGO-FIX has led to the unmatched quality of the cylindrical holder products. Coupled with our precision ER collet offering, this results in the highest accuracy for all types of Swiss machining applications.

- // Accuracy TIR of less than 0.0001" from ER cavity to taper O.D.
- // Roundness h6 precision ground shanks for precise centering
- // Material special formulated tool steel for all mini-threaded holders to improve strength
- // Coolant through most versions have a coolant channel for through tool coolant
- // Options largest variety of metric and inch sizes, with both standard and coolant through nuts
- // Safety All ERM holders can be fitted with the intRlox anti-slip nut for added safety (see page 7)



**CYL/ER** The short versions are particularly used on turret lathes, where a short overhang is often required.

CYL/ER NC These colletholders are particularly suitable on Swiss automatic CNC turning machines, but can also be used on other turning machines.

**CYL/ERM** This type is suited for Swiss automatic machines, machining centers and conventional machines. Can be used as extension.

**CYLF/ERM** The line of cylindrical colletholders with clamping flat is particularly designed for Swiss automatic CNC machines, e.g., Citizen, Manurhin, Star or Tornos.

**CYDF/ERM** The line of double colletholders with clamping flat has been designed for Swiss automatic CNC machines, e.g., Citizen, Manurhin, Star or Tornos and offers the possibility to hold two cutting tools on the same colletholder.

# **MultiLine – cleaning and maintenance**

#### Ultrasonic cleaner

Heavy duty stainless steel double-wall design provides highly efficient cleaning. The multi-frequency operating ensures optimum cleaning conditions for most tooling system components.

- // User friendly digital timer
- // Frequency load control
- // 40kHz / 250 Watt
- // 4 gallon capacity
- // Overal dimensions 16"W x 18"L x 16"H / Internal 12"W x 8"L x 10"D
- // Heavy duty 14 gauge stainless steel construction
- // Stainless steel cleaning basket
- // 2 year warranty generator, workmanship and materials
- // 10 year warranty transducer bond





The REGO-FIX taper cleaning device is designed to clean toolholder interfaces by way interchangeable brush head canopies situated on a base motor. The taper cleaner is made for easy, effortless cleaning and removal of oil and emulsion coolants, rust and other partially resinous dirt residues.

REGO-FIX

- // Increased runout accuracy of cutting tool
- // Increased service life of cutting edge
- // Assists in the protection of the machine spindle
- // Maintains lasting precision of tooling interface
- // Reduces waste

#### Force-Check

Quickly and accurately draw-bar retention force, ensuring optimum connection between the toolholder and machine spindle. This critical function for machine and tooling system performance is often not measured, nor monitored, after a machine is put into service.

- // Hand-held display
- // Interchangeable measuring bars
- // Schedule regular measurement of draw-bar force to detect system problems early
- // Enable maintenance and repairs before catastrophic failures
- // Available in CAT, DIN, BT, ISO, HSK, Capto & KM



# **MultiLine – fixturing**

#### **WA Tool Block**

The WA tool block is designed to make assembly and set-up as easy as a twist of the handle. The fixture head can be easily interchanged to accomodate most toolholder types.

- // Interchangeable toolholder system
- // Rotates to desired position
- // Assemble the whole tool without re-clamping
- // Prevents tool and spindle damage
- // Minimum locking force required
- // Mounting space approx 6" x 4"
- // Available in steep taper, HSK, VDI, Capto and KM
- // Mounts on table or tool cart





#### Torque wrenches and wrench heads

The REGO-FIX torque wrenches are calibrated to fit the recommended torque values for each and every REGO-FIX nut.

- // Micro, small, medium and large wrenches to cover torque values from 2 ft-lbs to 220 ft-lbs
- // Interchangeable torque heads available for all REGO-FIX nut styles
- // REGO-FIX provides recommended torque values for all nuts to prevent cracked and damaged holders

#### **TORCO-BLOCK**

Torco-Block is the only tool assembly device in the market that is easy and safe to use with integrated torque measuring. Usability ranged from ER 11 to ER32, from 1 to 22mm and boasts all standard machine interfaces from HSK to steep taper.

- // Use any suitable wrench and still be able to correctly measure torque and reduce possibility of cracked or damaged holders
- // Minimum force needed
- // Easy-to-read torque limits reducing the possibility of over tightening
- // Quick-change function for different taper adapters within seconds with only one 4mm allen-key
- // Accident-free assembling of cutting tools
- // Easy-to-change adapters and torque rings quick-lock interface inserts

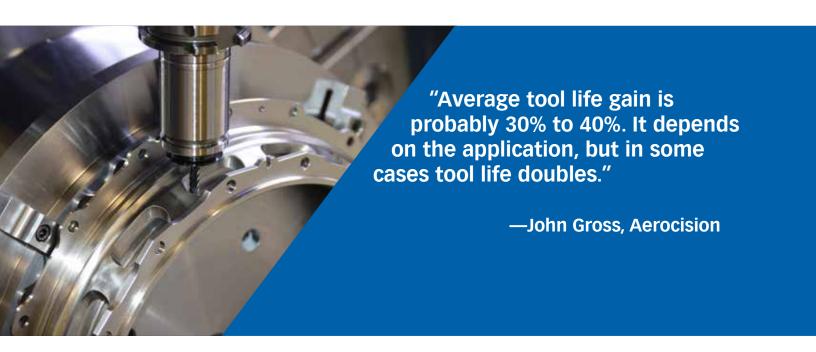


# **Testimonials**

#### **Trust in the tool**

"The nut locking system (intRlox) has basically eliminated injuries related to tool change-outs on our Swiss-type machines. Plus, tool change-out speeds inherently increased because our operators don't have to move so carefully to prevent the collet nut wrenches from slipping."

-Mike Fries | TOMZ Corp



### **Investing in technology for success**

"We compared and tested it against different systems. The PG system is much more precise than almost any other collet system in the market."

—Sebastien Baril | SMP Tech





#### Increased capabilities from standard ER to the high performance PG

"The purchase of the REGO-FIX ER collets and powRgrip system was easily justified when we realized the resultant production savings."

-Kris Gallant | Smith & Wesson





Fritz Weber founded REGO-FIX back in 1950. His curious nature, innovative spirit and stern determination led to the invention of the ER clamping system – the international industry standard since 1993. Today, REGO-FIX is an international family-owned company run by the founder's three sons: Andreas, Stefan and Richard Weber. With its many skilled employees, REGO-FIX manufactures and markets high-precision tooling worldwide.



# We deliver machining excellence worldwide

From our headquarters in Switzerland and our two subsidiaries in the U.S. and China, we sell directly to over 50 exclusive sales partners worldwide.

At REGO-FIX Tool Corporation in Whitestown, Indiana, products are inventoried at maximum capacity, offering quick turnaround on all product orders via a 98% same-day fulfillment for customers in the United States and Canada.

# Headquarters & Manufacturing: REGO-FIX AG Distribution Subsidiaries: REGO-FIX TOOL CORP (Whitestown) & REGO-FIX PRECISION TOOLS (Shanghai)

#### **REGO-FIX Tool Corp.**

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