



Winter and  
Spring 2024

**REGO-FIX** ▲

**New Product Highlights**

# Excellence in toolholding

## A tradition of precision – and innovation

Since 1950, shops like yours have counted on REGO-FIX to help them make better products in less time. We bring you Swiss precision that eliminates problems before they start. And, in the continuous quest to improve both what we make and how you work, our newest product additions expand your capabilities.

## 95% same-day shipping

You can't wait for essential high-quality tooling, and with REGO-FIX, you don't have to. We make everything we sell, and we always have stock on hand. Our global headquarters in Switzerland keeps us resupplied, so you can count on us for prompt delivery of our entire product catalog – including our latest innovations.








# New for 2024

## **Our latest for your greatest results**

REGO-FIX continues to build on the success of our existing product lines and create new offerings that expand your capabilities with legendary Swiss precision.




REGO-FIX metrology: 3D-EdgeMaster centering devices and MasterBar test arbors ensure machine tool setup and spindle precision.

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FMA – REGO-FIX ForceMaster: New pull-force tester for spindles.

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Magnetic Indicator Base and μ-touch Dial Test Indicator: Ideal for use where precise measurements must be made.

07




Hi-Speed reCool® (RCR-Hi): Upgrade your high-RPM spindles with internal cooling.

08



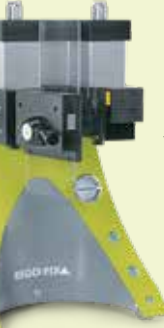
Externally threaded reCool (RCR-AX): Add through coolant to inner-threaded driven tools.

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Peripheral cooling with the new ER-CB collets: Complementary to the established internal cooling and coolant flush disk variant.

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PGU 9800 Clamping Unit: An enhanced version of our proven automatic toolsetting unit with an integrated status display.

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powRgrip CoolBore Collets (PG-CB): Keep low and slow cuts cool and free of chips.

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powRgrip Sealed Cap Collets (PG-SC): Protect your tools from dust and other impurities.

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powRgrip CRYO (CO<sub>2</sub>) Collets and Holders: Guide supercritical CO<sub>2</sub> to the cutting edge.

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powRgrip Short Tail Collets (PG-ST): Enhance your lathe or quick-change system with powRgrip performance.

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WTO QuickFlex® and EWS Varia VX3/VX4 systems and adapters: Quick-change options for powRgrip.

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PST Short Tail Toolholders for C3 and C4: Use with PG-ST collets for the shortest possible length.

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powRgrip Grinding Arbors and Quills: Extend grinding tool flexibility and reach more workpiece features.

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ATC-E (HSK) 15 Toolholders: A new system for micro-machining, balanced up to 80,000 rpm.

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# Measure up with REGO-FIX

## Metrology

Shorten setup time and ensure part accuracy with the ergonomic 3D-EdgeMaster. Set zero points, probe reference edges and workpieces, calibrate measuring paths, center machine axes and determine bore centers, all with repeating accuracy of  $\leq 0.01$  mm. Individually serial numbered, with fully traceable inspection and performance certification for demanding industries.

- Simple, fast, precise and durable
- Metric and inch sizes
- Short and long probe options available
- Consistent, reliable probing
- IP 67-compliant shockproof and splashproof design

MasterBar checks spindle runout, spindle and arbor alignment, and arbor length to boost part quality and reduce scrap. After a spindle crash, shops can recheck for changes in runout and parallelism. Shipped in custom packaging that doubles as storage and supports the full length of the tool to maintain its straightness and accuracy. Full technical certification data is available digitally.

- Minimizes risks of spindle damage
- Maximizes process reliability
- Available with HSK, steep-taper ST, BT and CAT interfaces
- Ground to the same exacting specifications as REGO-FIX toolholding products
- Cylindricity of  $\leq 2 \mu\text{m}$ , runout (cylindrical shank to taper) of  $\leq 3 \mu\text{m}$  and axial runout (flange to taper; HSK, BT+ and CAT+ only) of  $\leq 0.05 \mu\text{m}$



Scan the QR code for additional information.



# FMA – REGO-FIX ForceMaster

New pull-force tester for spindles

## INDUSTRY 4.0

The FMA is future-proof and can be embedded seamlessly into digital production environments to optimize manufacturing processes.

## VERSATILE

Only one basic device: Our clamping force tester enables quick adapter change for different machine spindles.

## PROCESS RELIABILITY

With the FMA, precise measurements of the spindle clamping force are guaranteed and maximum process reliability as well as minimum downtime are made possible.



# REGO-FIX Magnetic Indicator Base with fine adjustment for dial gauges

## USER-FRIENDLY

Easy and exact positioning due to the fixation of the joints via a handle. The magnetic base provides a stable basis for the articulated stand.

## FLEXIBLE

The dovetail mount and the clamping diameter ( $\varnothing$  8 mm or 3/8") offer the highest flexibility for mounting dial gauges or dial test indicators.

## Magnetic Indicator Base

The articulated stand is ideal for use in the production or quality control, where precise measurements must be made. The simple operation allows fast and accurate alignment of the dial indicator.



# REGO-FIX $\mu$ -touch Dial Test Indicator

## OVERVIEW

The large dial with  $\varnothing$  37 mm as well as a scale of 2  $\mu$ m can be read easily and accurately. Clamping possibility by dovetail guides or clamping shank  $\varnothing$  8 mm.

## PRECISE

With a repeatability of 1  $\mu$ m and an overall deviation of max. 3.5  $\mu$ m, the REGO-FIX dial test indicator is the perfect measuring tool for precise measurements.

## $\mu$ -touch Dial Test Indicator

Dial test indicators are used to check tolerances, align machine tools and to check workpieces for deviations.



# Make the simple switch to high-speed, through-spindle coolant

## Hi-Speed reCool (RCR-Hi)

Quickly and easily convert your high-speed and high-frequency spindles to internal cooling with this smart retrofit. Make full use of your high-performance equipment with a patented solution that delivers coolant precisely where you need it.



- Through-coolant conversion for up to 40,000 rpm spindles and tools
- 100 bar maximum pressure
- Works with emulsion and oil-based coolants
- Available in ER(M) 11 and 16 sizes for tool shank diameters of 3 mm to 10 mm
- Ceramic coating for reduced friction

Type	Part no.	Dimensions [mm]		Thread	Accessory
		B	D		Wrench
<b>Set RCR Hi-S/ER (for emulsion and oil-based coolants)</b>					
SET RCR Hi-S/ER 11	3711.60000	16.5	21.75	M 14 x 0.75	E 11 AX
SET RCR Hi-S/ER 16	3716.60000	24.5	34	M 22 x 1.5	E 16 AX
<b>RCR Hi-S/ER nut (for emulsion and oil-based coolants)</b>					
RCR Hi-S/ER 11	3711.69000	16.5	21.75	M14 x 0.75	E 11 AX
RCR Hi-S/ER 16	3716.69000	24.5	34	M 22 x 1.5	E 16 AX
<b>Set RCR Hi-S/ERM (for emulsion and oil-based coolants)</b>					
SET RCR Hi-S/ERM 11	3711.70000	16.5	21.75	M 13 x 0.75	E 11 AX
SET RCR Hi-S/ERM 16	3716.70000	24.5	31	M 19 x 1	E 16 AX
<b>RCR Hi-S/ERM nut (for emulsion and oil-based coolants)</b>					
RCR Hi-S/ERM 11	3711.79000	16.5	21.75	M13 x 0.75	E 11 AX
RCR Hi-S/ERM 16	3716.79000	24.5	31	M 19 x 1	E 16 AX



Scan the QR code for additional information.



# Turn to through coolant for added live-tool performance

## Externally threaded reCool (RCR-AX)

Increase your productivity, boost your tool life and achieve greater chip-evacuation efficiency with internal coolant optimized for turning centers. This quick-installing conversion for internally threaded live tools is easy to use, with a slim profile for minimal interference.

- Externally threaded conversion for lathes up to 12,000 rpm
- 100 bar maximum pressure
- Works with emulsion and oil-based coolants
- Available for 3-20 mm tool shank diameters
- Copper-like coating for reduced friction

Type	Part no.	d [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	GL [mm]	G
<b>Coolant supply system with outer thread, rotational</b>								
RCR/ERAX 16	3716.29000	34.0	46.0	41.5	14.5	7.6	9.0	M24x1.0
RCR/ERAX 20	3720.29000	37.5	49.5	45.0	15.5	7.6	9.0	M28x1.5
RCR/ERAX 25	3725.29000	41.0	53.0	48.5	15.8	7.6	9.0	M32x1.5
RCR/ERAX 32	3732.29000	49.0	61.0	56.5	16.9	7.6	9.0	M40x1.5



Scan the QR code for additional information.



# ER-CB – CoolBore

## Extended ER Collet Coolant Options

Peripheral cooling with the new ER-CB collets complementary to the established internal cooling and coolant flush disk variant

### PROCESS RELIABILITY

The best chip removal and exact supply of the cooling lubricant ensure high process reliability.

### OPTIMIZED

Optimum peripheral cooling and lubrication of the tool engagement point through holes in the collet.

### REGO-FIX ER

Perfectly matched ER components result in lowest runout errors and highest power transmission.

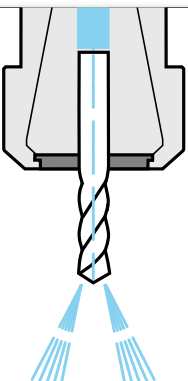
## ER collets: cooling options overview

DS: Sealing disk

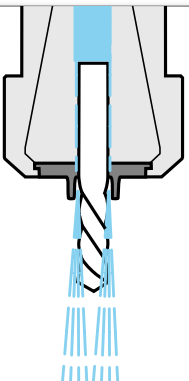

KS: Coolant flush disk

DM: Metallic sealed

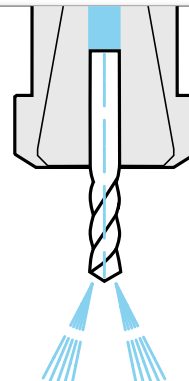

CB: CoolBore




- // Precise cooling at the cutting edge and improved chip removal
- // Optimized for deep drilling and threads



- // Coolant perfectly guided along the tool shank
- // Best results at high rpm



- // Precise cooling at the cutting edge and improved chip removal
- // No additional components necessary



- // No additional components necessary and compatible with the standard ER clamping nut
- // High output pressure for improved chip removal



# powRgrip toolsetting with an informational display

## PGU 9800 Clamping Unit

How do you improve on proven performance? Add an integrated touch-and-swipe LCD that displays your technology cycle count by tool size, along with status codes and build date. This new clamping unit design features a quieter motor and redesigned controls.

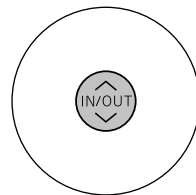
- Automatic or manual operation
- Clamp a tool in less than 10 seconds
- Up to 9 tons of clamping pressure
- Touchscreen displays cycle statistics, status codes and unit information
- 2-year warranty



Scan the QR code for additional information.

## PGS 25

Automatic unit for efficient clamping of single sizes. For use as an entry-level machine or maximum productivity with frequent tool changes.



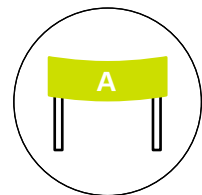
One-button operation and tool ready in 8 seconds



Less than 50 kg /110 lbs including insert



Optimized for single sizes



Automatic entry-level unit



# Peripheral cooling paired with a form-fitting tool grip

## powRgrip CoolBore Collets (PG-CB)

Expand your powRgrip options with the optimal combination of toolholding and cooling for medium to high-performance applications – and the most gripping force of any REGO-FIX coolant collets. Deliver high-pressure peripheral coolant for optimized chip removal.

- Perfectly form fit for maximum clamping force
- Maximum-pressure coolant output
- Available for PG 25 (including short collets) and PG 32
- Quick change-out with other powRgrip coolant collets
- Exchanges with Standard (internal coolant) for deep drilling and tapping during light to heavy machining and CoolFlush (coolant guided along the tool shank) collets for high-rpm light to medium applications



Type	Part no.
<b>PG 25-CB</b>	
PG 25-CB Ø 6.00 mm	1725.06009
PG 25-CB Ø 1/4"	1725.06359
PG 25-CB Ø 8.00 mm	1725.08009
PG 25-CB Ø 3/8"	1725.09529
PG 25-CB Ø 10.0 mm	1725.10009
PG 25-CB Ø 12.00 mm	1725.12009
PG 25-CB Ø 1/2"	1725.12709
PG 25-CB Ø 5/8"	1725.15889
PG 25-CB Ø 16.00 mm	1725.16009

<b>PG 25-CB Short Collets (US only)</b>	
PG 25 Short CB Ø 1/8"	8425.03187
PG 25 Short CB Ø 3/16"	8425.04767
PG 25 Short CB Ø 1/4"	8425.06357
PG 25 Short CB Ø 5/16"	8425.07947
PG 25 Short CB Ø 3/8"	8425.09527
PG 25 Short CB Ø 1/2"	8425.12707
PG 25 Short CB Ø 5/8"	8425.15887

Type	Part no.
<b>PG 32-CB</b>	
PG 32-CB Ø 12.00 mm	1732.12009
PG 32-CB Ø 1/2"	1732.12709
PG 32-CB Ø 5/8"	1732.15889
PG 32-CB Ø 16.00 mm	1732.16009
PG 32-CB Ø 3/4"	1732.19059
PG 32-CB Ø 20.00 mm	1732.20009



Scan the QR code for additional information.

# Protect toolholders from dust and impurities

## powRgrip Sealed Cap Collets (PG-SC)

Protect your tools from contaminating chips and dust particles when you machine ceramics, sintered carbide, graphite, glass and other complex materials. These completely sealed quick-change collets provide ultra-low runout and equally high vibration damping for long toolholder life and consistent performance.

- Total system runout of  $\leq 3 \mu\text{m}$  at  $3 \times D$
- Excellent toolholding performance for demanding materials
- Completely closed heads and sealed caps
- Changes out in seconds
- Available with optional cooling channels



Type	Sealed Cap (SC)
<b>PG 10</b>	<b>Part no.</b>
PG 10-SC $\varnothing$ 3.00 mm	8410.03004
PG 10-SC $\varnothing$ 4.00 mm	8410.04004

Type	Sealed Cap (SC)
<b>PG 15</b>	<b>Part no.</b>
PG 15-SC $\varnothing$ 4.00 mm	8415.04004
PG 15-SC $\varnothing$ 6.00 mm	8415.06004
PG 15-SC $\varnothing$ 8.00 mm	8415.08004
PG 15-SC $\varnothing$ 10.00 mm	8415.10004
PG 15-TW $\varnothing$ 12.00 mm	8415.12006
PG 15-TW $\varnothing$ 1/2"	8415.12706



Scan the QR code for additional information.

# Supercritical clean cooling and chip control

## **powRgrip CRYO (CO<sub>2</sub>) Collets and Toolholders**

Eliminate secondary part-washing on workpieces that can't tolerate oil or emulsion residue, including medical implants and surgical tools. Cryogen cooling delivers supercritical CO<sub>2</sub> to the cutting edge for safe, clean machining. Fully compatible with our powRgrip automatic and manual toolsetting units.

- Total system runout of  $\leq 3 \mu\text{m}$  at 3 x D
- Excellent toolholding performance with demanding materials
- Maximum cooling with minimal amounts of non-corrosive CO<sub>2</sub>
- Maximized clamping force and vibration damping
- Custom-engineered solutions for your unique applications



*Scan the QR code for additional information.*





# Toolholding built for quick-change systems

## powRgrip Short Tail Collets (PG-ST)

Take advantage of powRgrip precision on lathes and quick-change systems with these shorter versions of our standard PG collets.

- Total system runout of  $\leq 3 \mu\text{m}$  at  $3 \times D$
- Precision toolholding for turning machines
- Available for PG 15 and PG 25
- Advanced vibration damping for better part quality and longer tool life
- Uses matching toolholders



# Developed with quick-change tooling in mind

## WTO QuickFlex and EWS Varia systems and adapters

High-performance quick-change systems and adapters for powRgrip reduce setup time for versatility on the production line. These systems and adapters are designed and manufactured to specific powRgrip performance specifications.

- Flexible options for specific shop workflows
- Available for PG 15 and PG 25
- Collets available directly from REGO-FIX
- Contact REGO-FIX for technical data on specific applications
- Order adapters directly from their manufacturers



Scan the QR codes for additional information.



# Save space and minimize interference

## PST Short Tail Toolholders for C3 and C4

Designed exclusively for PG-ST collets, these toolholders keep your overall tooling assembly as short as possible. Thus, you avoid interference and accommodate more workflows with the versatile precision of powRgrip.

- Lengths as short as 67 mm
- Available for PG 15 and PG 25
- Minimal interference
- No coolant tube threads
- No ATC groove
- Ideal for live tools with PST output



*Scan the QR Code for additional information.*



# Pin grinding perfected

## powRgrip Grinding Arbors and Quills

Apply the power and precision of powRgrip to grinding applications with arbors and quills that feature REGO-FIX performance for HJNZ spindles. Change out coolant systems within seconds and benefit from tomorrow's tool clamping capabilities today.

- Total system runout of  $\leq 3 \mu\text{m}$  at  $3 \times D$
- Extreme accuracy and concentricity
- Tested with leading grinding-equipment manufacturers
- High vibration damping
- Versatile designs and collets for wide-ranging applications



*Scan the QR Code for additional information.*





# High precision for micro machining

## ATC-E (HSK) 15 Toolholders

Fast, precise and optimized for micro-machining, this new toolholding system accommodates the high-precision standards and high-speed machining you need for extremely small workpieces. Available in four toolholding types.

- Balanced at 80,000 rpm
- HSK interface
- Available for ER 8, ER 11, PG 6 and SR 6
- Clamps tools from 0.2 mm to 7 mm in diameter
- Optimized for machining speed and precision



*Scan the QR Code for additional information.*



# Hold on for what's new

## Our latest toolholders and services

We've expanded our existing offerings to give you more flexibility and control.

### HSK-A 63/powRgrip Holders

4563.71050 HSK-A 63/PG 10 x 100 mm H  
4563.71550 HSK-A 63/PG 15 x 100 mm H  
4563.71590 HSK-A 63/PG 15 x 200 mm H

### BT+ 30/Dual-contact powRgrip Holders

4130.71066 BT+ 30/PG 10 x 120 mm H  
4130.71566 BT+ 30/PG 15 x 120 mm H

### CAT 40/powRgrip Holders

8020.71561 CAT 40/PG 15 x 5" H

### HSK-A 50/powRgrip Holders

8020.71050 HSK-A 50/PG 10 X 100 mm H

### PST C4/powRgrip Holders

2804.72520 C4/PG 25 X 065 mm

### powRgrip Cylindrical Extensions

8020.26257 CYL 25 x 240 mm/PG 15

### HSK-A 100/powRgrip Heavy-Duty secuRgrip® Holders

8020.55007 HSK-A 100/PG 32 HD-SG X 160H

### powRgrip secuRgrip nut ring

Now available for TORCO-BLOCK tool assembly assistant




## New Tech Lab Services

Contact the REGO-FIX Tech Team for product customization.

- RFID inventory-tracking data chip installation
- Toolholder balancing
- HSK coolant tube installation
- secuRgrip thread modification

# REGO-FIX

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