

Lab Instrumentation

ADVANCING LABORATORY ACCURACY
THROUGH PURPOSE-BUILT MOTION

Stand-alone lab automation systems must process samples faster, deliver tighter accuracy, and maintain uninterrupted workflows – all while meeting the demands of increasingly complex analytical tasks. Every axis of motion plays a critical role in achieving this level of precision and reliability.

Regal Rexnord delivers purpose-built motion solutions that directly address these challenges – enhancing precision, improving consistency, and enabling the dependable performance required for advanced scientific analysis.

X / Y / Z movement

1 2 3

Fluid pumping / pipetting

1 2 3

Reagent dispensing

1 2 3

Sample processing

1 2 3

Sample load / unload / index

1 2 3 4

Capping / decapping

1 2 3 4

Sample carousel

1 2 3 4



1 Portescap
Miniature precision motors, gearheads, and encoders

2 NOOK THOMSON
Lead and ball screw assemblies

3 KOLLMORGEN
High-performance motors and drives

4 FORMSPRAG CLUTCH
Electromagnetic clutches and brakes

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AUTOMATE. INNOVATE. ACCELERATE.

Choose Regal Rexnord, where one partnership delivers everything you need for laboratory automation success.

With a broad portfolio of motion technologies and decades of expertise tackling complex motion control challenges, we accelerate your product development through a collaborative design process – transforming your requirements into prototypes and scaling seamlessly to full production. Whether you need a custom component, multi-component integration, or a fully integrated motion subsystem, Regal Rexnord delivers the design innovation, global-scale production, and long-term support to keep you ahead in the rapidly evolving lab automation market.

Ideation

Tap into Regal Rexnord's 60+ years of motion expertise to shape your initial design and create true product differentiation from the start.

Engineering Collaboration

Work hand-in-hand with our engineering team to identify optimal solutions early, combining deep technical knowledge with your unique requirements.

Rapid Prototyping

Accelerate testing and evaluation with fast-turn prototypes – delivered online or direct – so you can move quickly from concept to validation.

Iterative Design

Collaborative reviews refine designs based on real-world test results, ensuring improvements are implemented swiftly to keep timelines on track.

Manufacturing Reliability

Count on ISO-certified facilities and proven processes to deliver medical-grade quality and reliability at scale for life-critical applications.

Continual Support

Our partnership doesn't end at launch — ongoing engagement ensures sustained success and adaptability throughout your product's lifecycle.

Portescap

NOOK

THOMSON

KOLLMORGEN

FORMSPRAG CLUTCH

Regal Rexnord

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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>. To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>

To learn more about Lab Automation solutions from Regal Rexnord and our portfolio of proven brands, contact your sales representative or visit regalrexnord.com/labautomation.



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