

Total Lab Automation

DRIVING END-TO-END LAB WORKFLOWS
WITH PRECISION MOTION

Total lab automation (TLA) elevates expectations across every phase of diagnostics, demanding systems that move samples seamlessly, maintain consistent accuracy, and operate reliably through complex workflows. By automating tasks such as specimen handling, reagent delivery, and data management, TLA boosts efficiency, minimizes errors, and accelerates turnaround times. Every motion axis involved in transporting, dispensing, pipetting, or processing contributes directly to the precision and dependability modern laboratories require.

Regal Rexnord supplies the motion foundation that enables this level of automation. Our technologies enhance accuracy, repeatability, and workflow stability, resulting in more reliable data and smoother system performance. Through deep engineering expertise, collaborative development, and a scalable portfolio of purpose-built components, we help OEMs optimize each stage of the automated workflow – from sample intake to final analysis.

Automated sample loading

1 2 3 4

Automated sample processing

1 2 3 4

Robotics

1 2 3 4

Centrifuge

1 2 3 4

Analytical modules

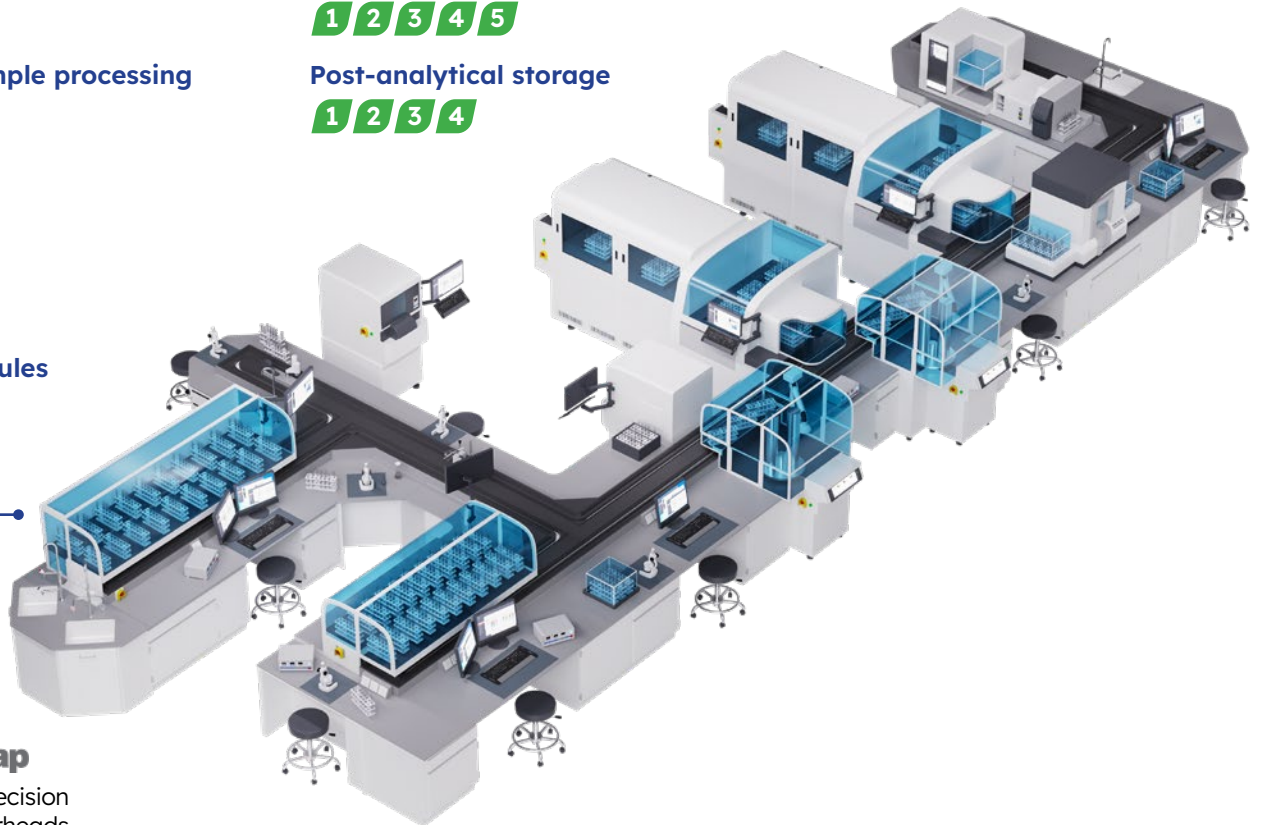
1 2 3 4

Sample transport

1 2 3 4 5

Post-analytical storage

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

5 REXNORD

Conveyance

1 Portescap

Miniature precision motors, gearheads, and encoders



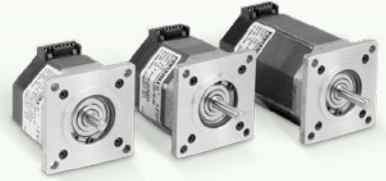
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Lead and ball screw assemblies



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High-performance motors and drives



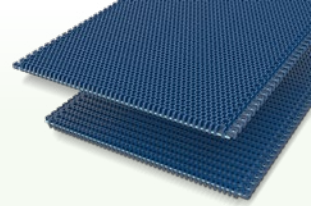
4 FORMSPRAG CLUTCH

Electromagnetic clutches and brakes



5 REXNORD

Conveyance



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 REXNORD

Regal Rexnord

regalrexnord.com

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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