Case Study
Rittal Australia / Rockwell Automation

Rittal System Enclosures Support Custom Drive Solutions for Mining and Transportation Projects

Introduction

Large-scale automation projects demand enclosure systems that are robust, flexible, and engineered to global standards. Rockwell Automation, a global leader in industrial automation and digital transformation, engaged Rittal to deliver a solution for a major two-year infrastructure project in the Mining and Transportation sector. The solution needed to support advanced drive technologies while allowing for efficient local customisation.

As the world's largest company dedicated to industrial automation, Rockwell Automation is known for its trusted Allen Bradley and FactoryTalk brands. With a focus on resilience, agility, and sustainability, the project required globally proven, locally adaptable infrastructure. Rittal's baying system enclosures and climate control systems were chosen for their modular design, durability, and seamless compatibility with Rockwell's equipment.

Project Overview

Industry:	Mining and Transportation
Integrator:	Rockwell Automation
Duration:	Two years
Featured Products:	TS 8 Enclosures, Rittal Climate Control Solutions

Why Rittal

Rockwell Automation's long-standing relationship with Rittal's local team was built on reliability, responsiveness, and trust. Rittal's local Sydney-based Modification Centre played a crucial role by offering custom configuration options that met the project's specific spatial and technical requirements without compromising on delivery times or global consistency. This level of local capability, combined with Rittal's global partnership with Rockwell Automation, ensured a seamless project rollout.

Solution: The Rittal Advantage

The project required enclosures that could accommodate Rockwell's drive technologies, withstand harsh operational demands, and support modular integration across multiple locations. Rittal's baying system was selected for its:

- **Fully symmetrical frame design:** allowing accessories to be mounted on both the width and depth of the enclosure, supporting flexible interior configuration.
- **High load-bearing capacity:** capable of supporting up to 1,400 kg, ideal for housing heavy-duty drive systems.
- **Baying flexibility:** enclosures can be joined from any side for scalable installation layouts.
- **Advanced cable management:** multi-divided gland plates allow for maximum cable entry space and simplified installation.
- **Corrosion-resistant finish:** nano-ceramic coating, electrophoretic dipcoat priming and textured powder coating for long-term durability.
- **Integrated rain canopy:** prevents accumulation of dirt and liquid, protecting seals and internal equipment.
- **Tool-free mounting and internal earthing:** speeds up installation while ensuring safety and compliance.
- **Compatibility with Eplan and CAD tools:** enhances engineering efficiency through digital design integration.

Rittal's climate control systems were also deployed to maintain optimal operating temperatures, protecting sensitive equipment and ensuring performance consistency in variable environments typical of large infrastructure operations.

"Rittal was engaged due to the strong working relationship developed with the local team over the years, which built a foundation of trust. A key success factor was the capability of the local Modification Centre to deliver custom solutions on request that meet end-user requirements."

Ronal Kumar
Senior Project Engineer at Rockwell Automation

Outcome

The system enclosures performed reliably throughout the two-year project, with no service issues reported. Their compatibility with Rockwell's standard drive assemblies, which are manufactured in Rittal enclosures in the USA, further streamlined the project's design and implementation process.

This case reaffirms Rittal's System Enclosures as the global standard for strength, flexibility, and design consistency across industrial applications. For Rockwell Automation and their end customer, Rittal's proven reliability, modification capabilities, and local support ensured project success from design to deployment.