

## CASE STUDY

# ENABLING SAFER, SMARTER ACCESS TO THE WORLD'S CRITICAL RESOURCES

## THE CUSTOMER

Orica is one of the world's leading mining and infrastructure solutions providers. Orica is an Australian company with its global technical centre in the Hunter Valley, NSW's industrial heartland.

For over 20 years, R&R Murphy has supported Orica in creating vehicle-mounted industrial process units, developing new emulsions charging technologies, and supporting these solutions throughout their life cycle, wherever in the world they are deployed.

R&R Murphy is trusted as Orica's supplier for the manufacture of underground mining equipment.



EXPERTS IN METAL FABRICATION





# THE CHALLENGES

## SAFETY

Safety is Orica's number one priority. Ammonium nitrate and the preparation and pumping of explosives emulsions are inherently complex.

Industrial process units must be manufactured to exacting tolerances, certified to be in alignment with robust quality control points, and continuously improved for enhanced safety and operability.

## REACTIVITY

On mine sites, blasting processes directly correlate to tonnage per hour and, therefore, an operation's profitability.

Effective prioritisation to onboard new customers, ensure the availability of critical spares, and immediately resolve risks to client productivity are crucial elements of the value Orica must deliver to customer worksites.

## SPECIALISATION

Orica engineering teams have deep expertise in the handling of chemicals, but they are small teams with a focus on creating new and improved technologies.

As a manufacturing partner, we understand and protect Orica's IP and bring our own specialist knowledge to enhance the technology and continuously improve the equipment.



# THE ENGAGEMENT

Over more than two decades, R&R Murphy has transitioned from contract manufacturing vendor to full-breadth service excellence partner, collaborating every day with Orica engineering, asset management, and new technology operations.

R&R Murphy now supports the complete asset life cycle of Orica’s underground process units, including ongoing fulfilment around Australia, the Pacific, and Asia, and assisting specific projects in North America and Europe when additional production bandwidth is required.



New Product Ideation



Collaborative Design & Engineering



Prototyping & Improvements



Contract Manufacturing Services



Product Testing & Quality Assurance



Logistics & Fulfilment



On-Site Commissioning



Global After-Market Support



# THE SERVICES

- ✓ Contract manufacturing of vehicle-mounted industrial process units for Orica's hard rock blasting services. Ensuring consistent production throughput and quality for all operating regions.
- ✓ Fitment, retrofitting, and commissioning of underground delivery systems onto carriers by Normet, Maclean, Mercedes Benz, Getman, and Epiroc.
- ✓ Warehousing and logistics management of critical spares (pre-commissioned emulsion charging units) and a dedicated spare parts store of consumables and replacement parts. Spare parts and standby units are maintained, ready for rapid deployment direct to Orica customer worksites in 21 countries.
- ✓ Continuous improvements to the **MaxiPump™** product, overcoming pumping challenges for emulsions of varying densities, and contributing to the reliability of this inherently safe solution.
- ✓ Collaborative new product design and ongoing improvements to the **MaxiLoader™** and **MaxiCharger™** products (1/2/4/5 tonne variants). Iterative improvements to the manufacturing process have reduced production time and cost whilst also making these offerings more robust in the field, maximising their serviceable life.
- ✓ Prototyping, improving and compliance testing for the latest **4D™** advanced blasting solutions, which feature significant digital technology integration and hydraulic and mechatronic automations to maximise efficiency and safety in the field.



"The R&R Murphy relationship with Orica is a great example of what can be achieved when we truly partner with a client organisation. The intimate understanding we've developed over the years really helps us identify where tweaks to a product might make it safer or more reliable. Additionally, we're trusted to use our initiative and test out whether removing or adjusting production steps can make an assembly safer to use or quicker, easier, and cheaper to manufacture."

**JOHN RUDLAND** - GENERAL MANAGER - R&R MURPHY

# THE OUTCOMES

## DON'T JUST TAKE OUR WORD FOR IT

"R&R Murphy manufactures our delivery systems for underground equipment, as well as helping us improve the product designs. This includes tanks and pumping systems, electrical systems, the hydraulics that drive those solutions, as well as fitment to mobile equipment.

"We value the long-term relationship we have enjoyed with R&R Murphy. They are responsive and invest in their people, which brings great value to our designs. Working closely with R&R Murphy means that Orica has safer and smarter solutions that just work better and last longer in the field."

**MARK HANCOCK** - NEW TECHNOLOGY & AUTOMATION LEAD - ORICA

"R&R Murphy is solutions-focused first and foremost. They are responsive, deal with challenges quickly and help us to avoid downtime for our customers.

"Our relationship with R&R Murphy is built on trust. Whether it's performance, longevity, or cost, they work to find ways to continuously refine the manufacturing process to deliver value for Orica and our customers.

"The R&R Murphy Team have a track record of handling any metal fabrication challenge. They not only manufacture our industrial process units, they also take care of their maintenance and repair and manage our spare parts program across 21 countries.

"R&R Murphy's proactive approach, ownership and willingness to collaborate helps us deliver operational certainty."

**BEN NEPPL** - ENGINEERING & ASSETS MANAGER - ORICA



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