

# 4D™



4D™ INTELLIGENT  
SYSTEMS



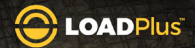
RBS 50

RBS 50

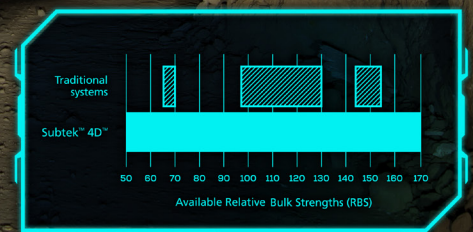
RBS 150

RBS 90

SMART LOADING  
SYSTEM



BULK EMULSION  
TECHNOLOGY



# 4D™ BULK SYSTEMS

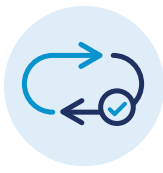
## THE NEW DIMENSION IN BLASTING

Experience leading-edge blast control in all conditions with the revolutionary 4D™ bulk systems, enabled by Orica's proprietary emulsion chemistry and smart delivery technologies. Designed for production and development applications, you can now precisely match delivered energy with geological conditions and desired blast outcomes to achieve the best possible result, every time.

[orica.com/4D](https://orica.com/4D)  
Click or scan the QR code  
to learn more



# EXPERIENCE SIGNIFICANT IMPROVEMENTS WITH 4D™ BULK SYSTEMS



Instantaneous  
Energy Control



Automation &  
Repeatability



Maximised  
Orebody  
Recovery



Sustainable  
Blasting  
Practices

## INSTANTANEOUS ENERGY CONTROL

Precisely control in-hole energy with the widest range of energy options on the market (relative bulk strength 50 to 170), suiting varying rock properties in wet, dewatered or dry holes. In-hole energy is immediately adjusted between holes or within an individual hole.

## AUTOMATION AND REPEATABILITY

Smart and intuitive LOADPlus™ control system ensures repeatable execution of the charging process to deliver accurate, predictable and quality results.

## MAXIMISED OREBODY RECOVERY

Tailoring energy placement to match orebody conditions and mine design requirements ensures greater recovery of valuable ore, while minimising unwanted and costly rock mass damage.

## SUSTAINABLE BLASTING PRACTICES

Optimised explosives distribution can reduce product consumption while ensuring the most efficient use of energy to break rock, minimising downstream energy use. Superior blasthole retention and zero-waste energy change ensures product remains only in the blasthole, preventing potential environmental impacts of residual and wasted product.

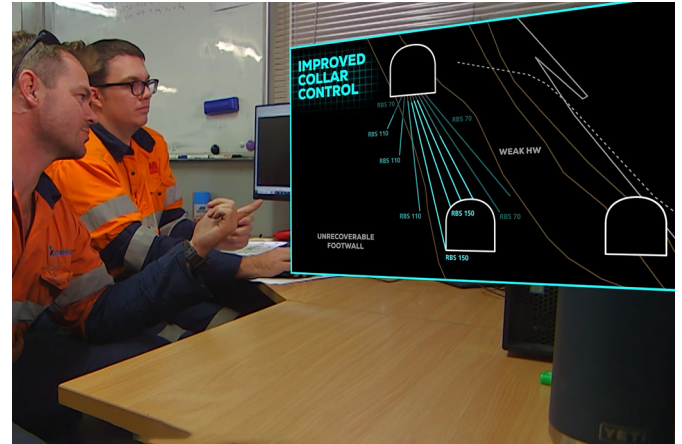


Figure 1. A wide range of energy options, easily transferred from design to execution.

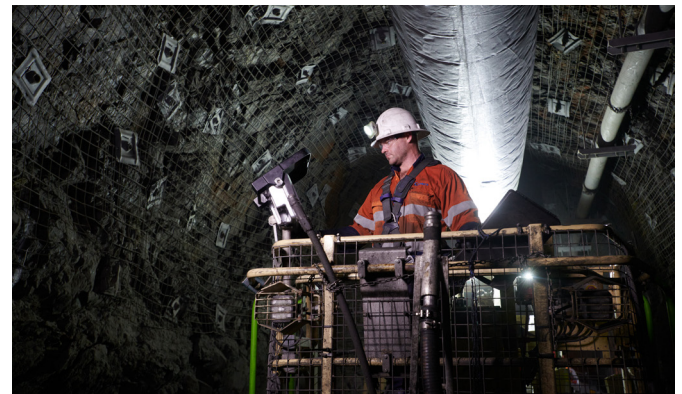


Figure 2. Seamless and precise execution of blast designs with LOADPlus™.

To learn more about 4D™ Bulk Systems and how it can support your operations today, please contact your local Orica representative, or visit [orica.com/4D](https://orica.com/4D)

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