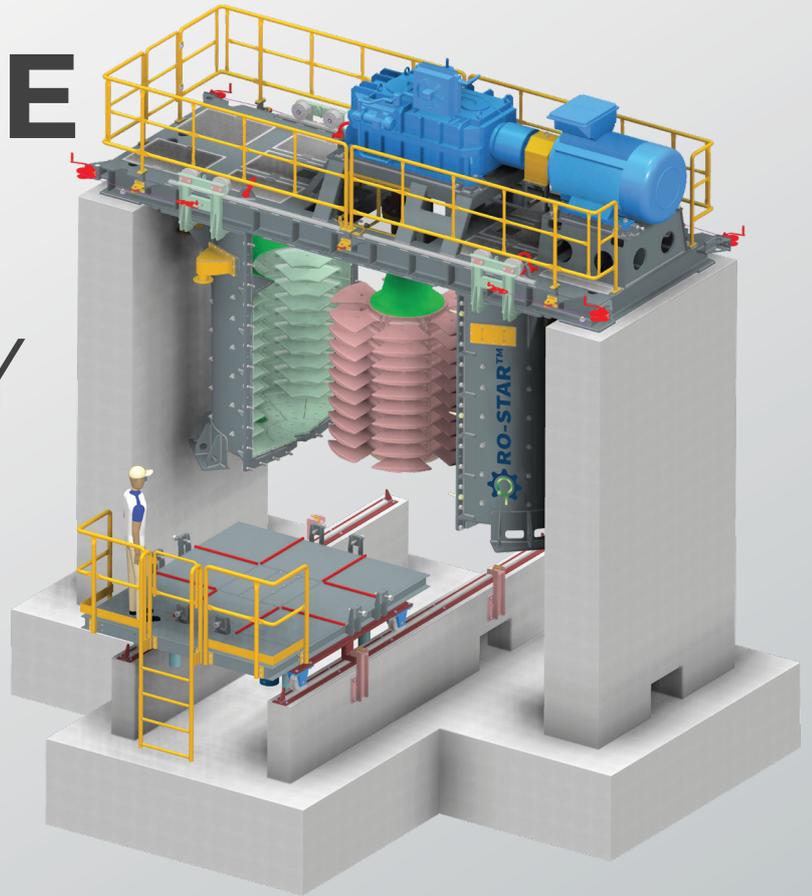




**RO-STAR™**  
ULTRA-FINE GRINDING MILL

# Ro-Star™ ULTRA-FINE GRINDING TECHNOLOGY



**Innovative Fine Grinding Solutions for Maximum Efficiency**

**Ro-Star mill** delivers superior fine grinding with reduced maintenance and lower operating costs.



**High Efficiency**

Advanced patented design ensures optimal energy utilization.



**Versatile Applications**

Ideal for a wide range of fine grinding processes.



**Extensive Test Facilities**

Backed by extensive test work and real-world applications.

Our expertise in fine grinding technology ensures **better results, lower costs, and improved sustainability** for your operations.



# RO-STAR™

ULTRA-FINE GRINDING MILL

The **Ro-Star™** is a vertical stirred media mill developed by **Maelgwyn Mineral Services (MMS)** and manufactured in collaboration with **Ersel Heavy Machinery** for ultra-fine grinding applications.

The technology has been developed in response to the industry's increasing move away from conventional ball milling in ultra-fine duties, where energy efficiency and effective stress application reach practical limits, and toward stirred milling solutions better suited to these requirements.

At the core of the Ro-Star design is a suspended, bottom-fed vertical configuration incorporating a rotor-stator grinding chamber. This geometry relocates the active grinding zone away from the shaft and toward the mill shell, promoting more uniform stress distribution, reducing inactive grinding zones, and improving the transfer of energy to the grinding media. The wider, lower grinding chamber also supports improved wear behaviour and accessibility for inspection and maintenance.

The Ro-Star has progressed through a structured programme of

- ✓ laboratory testwork,
- ✓ pilot development, and
- ✓ industrial-scale design.

A dedicated laboratory mill and repeatable test procedure enable transparent benchmarking against established ultra-fine grinding technologies, while industrial-scale units of up to **500 kW** have been mechanically completed in collaboration with **Ersel Heavy Machinery**.



**Ro-Star™**

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**MAELGWYN**

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