

MillROC

THROUGHPUT

EFFICIENCY

LINER LIFE

RECOVERY

MAXIMISE
ASSETS

Orway IQ is at the forefront of minerals process optimisation globally. Our experts provide remote optimisation consulting services on live data to help mines increase throughput, recovery, power efficiency and reduced liner wear.

MillROC – Milling Remote Optimisation Consulting & Coaching

We apply process models and analysis to real-time plant data which help expert consultants to provide frequent and high level advice, which includes guidance on operating approaches and setpoints. Machine learning can also be applied to the datasets produced, searching for hidden relationships.

MillROC - Milling Remote Optimisation Consulting & Coaching
Remotely monitors and models circuits and processing plants to ensure optimal performance



Milling Remote Optimisation Consulting & Coaching

Monitors and models processing plants to ensure optimal performance

With decades of process experience, Orway IQ provides a virtual online milling expert to provide advice to keep the circuit at optimal performance. This aids to maximise throughput, increase power efficiency, improve recovery, reduce wear and promote longer liner life thus maximising asset utilisation.

Traditional comminution circuit reviews typically result in throughput improvements of more than 10%. However, improvements are often unsustainable due to changing conditions and ore types. Consequently, most grinding circuits operate sub-optimally for long periods of time. This can lead to millions of dollars in lost revenue. Merging expert consulting services with cloud-based computing effectively addresses this problem by having the consultant's recommendations continuously available to the plant.

Data in most comminution circuits is often of poor quality, making modern data analytics and machine learning ineffective. Orway IQ work with MillROC clients to understand key parameters driving performance, improving instrumentation and data acquisition to allow implementation of advanced data analytics and machine learning.



Orway IQ is a joint venture company established by Orway Mineral Consultants (OMC) and Process IQ Pty Ltd. We draw on OMC's comminution optimisation and Process IQ's expertise in IIoT cloud-based software called the VIP Data Platform.

Orway Mineral Consultants, a Metallurgy & Process Engineering Consultancy, is recognised as the world leader in comminution circuit design and optimisation, providing modelling services using in house and commercially available software.

OMC's expertise has expanded to include comminution, beneficiation and hydrometallurgy services to large and small companies across the globe.

Process IQ is a Perth-based METS company with expertise in metallurgy & process engineering.

Process IQ provide a proprietary IIoT platform, MillSlicer mill measurement technology and MillStar advanced process control aimed at improving throughput, recovery and efficiency.

Orway IQ

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