

NICO DRONA NANOBUBBLE SYSTEM PRECISION WATER OPTIMIZATION FOR MINING & MINERAL PROCESSING

Mining operations require efficient, scalable, and environmentally responsible water management across complex processing systems. The **NICO DRONA Nanobubble System** is engineered to enhance water quality, optimize mineral recovery, and improve process stability, delivering high-performance outcomes across mining and mineral processing operations.

Challenges In Mining Water Systems

Managing mining water and process systems presents critical challenges:



Poor Oxidation & Metal Removal

Limits efficiency in contaminant and heavy metal treatment



High Chemical Dependency

Increases operational cost and environmental impact



Tailings & Slurry Instability

Creates handling, storage, and environmental risks



Inefficient Water Recycling

Leads to excessive freshwater consumption



Suboptimal Flotation Performance

Reduces mineral recovery and process efficiency

Key Benefits

Delivering measurable improvements across mining operations:



Enhanced Water Treatment & Oxygenation

Improves oxidation, contaminant breakdown, and water clarity



Optimized Mineral Recovery

Boosts flotation efficiency and processing performance



Reduced Chemical Usage

Lowers reliance on reagents and treatment chemicals



Improved Water Management

Enables effective recycling and reduces environmental impact



Seamless Integration

Compatible with existing mining systems and infrastructure

Why NICO DRONA?

NICO DRONA is purpose-built for mining environments, delivering advanced performance through nanobubble technology:



Enhances oxidation and heavy metal removal efficiency



Improves flotation performance and mineral recovery rates



Reduces chemical usage across treatment processes



Supports stable microbial and chemical balance in water systems



Seamlessly integrates into existing mining infrastructure

Key Application Areas

Designed to optimize water and process systems across mining operations:



Mine Tailings Water Treatment

Stabilizes and cleans tailings water for safe reuse or discharge



Acid Mine Drainage (AMD) Remediation

Neutralizes acidity and removes harmful contaminants



Heavy Metal Oxidation

Enhances removal of dissolved metals from process water



Process Water Recycling

Improves water quality for reuse, reducing freshwater demand



Mineral Flotation Enhancement

Boosts separation efficiency and recovery rates



Cyanide Destruction

Breaks down cyanide in leach water for safer handling and compliance



ISO Certified Quality Standards



Global Presence



Customizable, Application-Specific Solution

Redefine Mining Water Performance with Advanced Nanobubble Technology

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