



Application Tech Sheet

Rock Crusher

Industry: Mining, Manufacturing, Cement
All mining plants, Drywall manufacturing, Portland cement production plants

Application: Raw Material Input, Finished Material Output, Storage
At every stage of the rock crushing process, there are uneven shapes, variable dust, mechanical and electrical noise.

Critical Factors: Construction, Low Maintenance

Rock crushing plants are very dirty and hard on switches. Any unit used must have a robust construction able to handle a lot of abuse. These plants are usually run with as few people as possible to save on overhead so maintenance is always an issue.

What to watch for:

- Uneven shapes
- Heavy dust
- Mechanical and electrical noise

Installation: Placement, size and shape of process

Use SOR®:

Advantages

- Adaptive Gain accounts for increases and decreases in dusty conditions.
- High power helps penetrate heavy dust.

Benefits

- More complete gain control
- High power
- Low frequency
- Adaptive gain

Key Questions:

1. Where is the possible location of the unit in relation to the fill stream?
2. What distance/amount of remote cable is needed?



Ultrasonic Paradigms:

Ultrasonic can't read during filling due to dust and are sensitive to angle of repose/aiming. echOsonix disproves this by providing a high-power, adaptive gain and simple installation without aiming tools.

Other Technology Options:

- Radar, Laser, Ultrasonic - Signals won't penetrate heavy dust.

Similar Applications:

- Bulk storage
- Gypsum manufacturing
- Powdered clay