



## Attrition Scrubbers

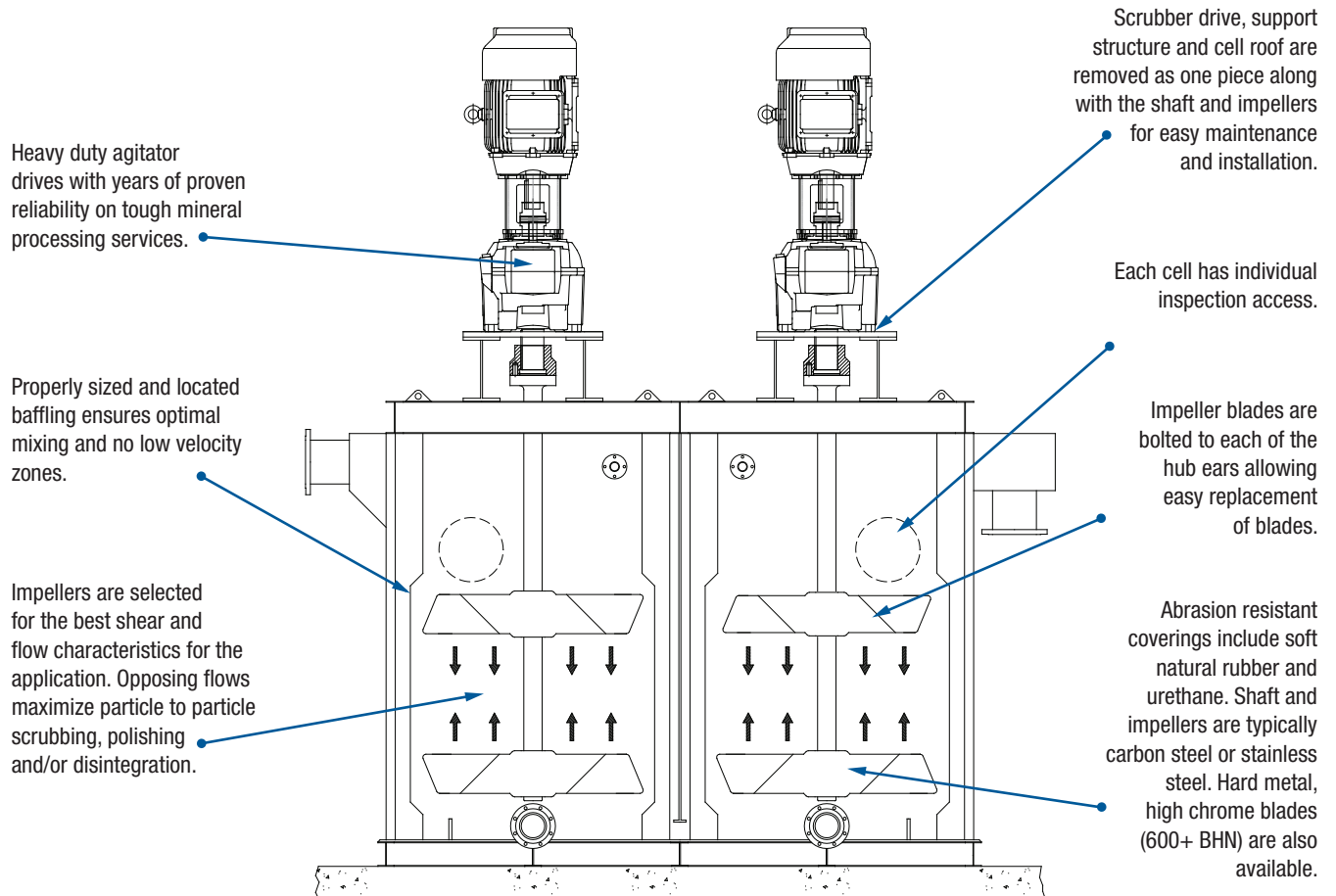
Attrition scrubbing is the process where a mineral is scrubbed primarily by the action of the slurry particles impacting one another. This type of particle scrubbing achieves the desired “cleaned” particles while minimizing wear on the equipment.



### Results of scrubbing:

- Exposes fresh surface of particles to reagents
- Cleans particle surface of contaminants, oxides, slimes, clay and calcium
- Reduces particle size

As mixing specialists, we at Hayward Gordon can choose the optimum impeller style from our large selection and identify the spacing and number of blades most suitable for your application. In addition, ideal cell and baffle geometry and configuration is selected by our experienced mixing application engineers.



# APPLICATIONS

## POTASH PROCESSING

Cleaning of potash crystals of clay and other surface contaminants, which is essential to flotation recovery. Scrubbing also reduces the crystal size which is required before washing.

## CLEANING OF SILICA SAND FOR GLASS MAKING

Removes calcium, iron oxide and other surface contaminants from the silica particles, improving the clarity of the finished glass.

## PHOSPHATE PROCESSING

Particle cleaning reduces reagent consumption and improves recovery in flotation operation.

## SOIL REMEDIATION

Washing of soil particles.

## KAOLIN PROCESSING

Dispersion of agglomerated clay.

## CLEANING OF FILTERING SANDS

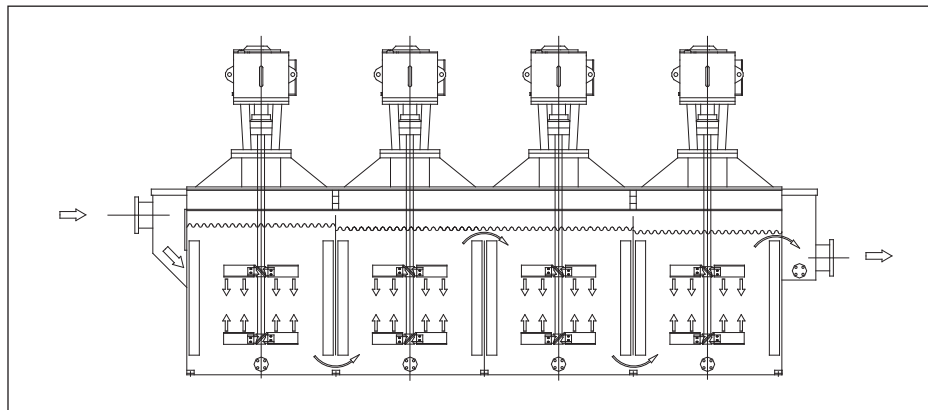
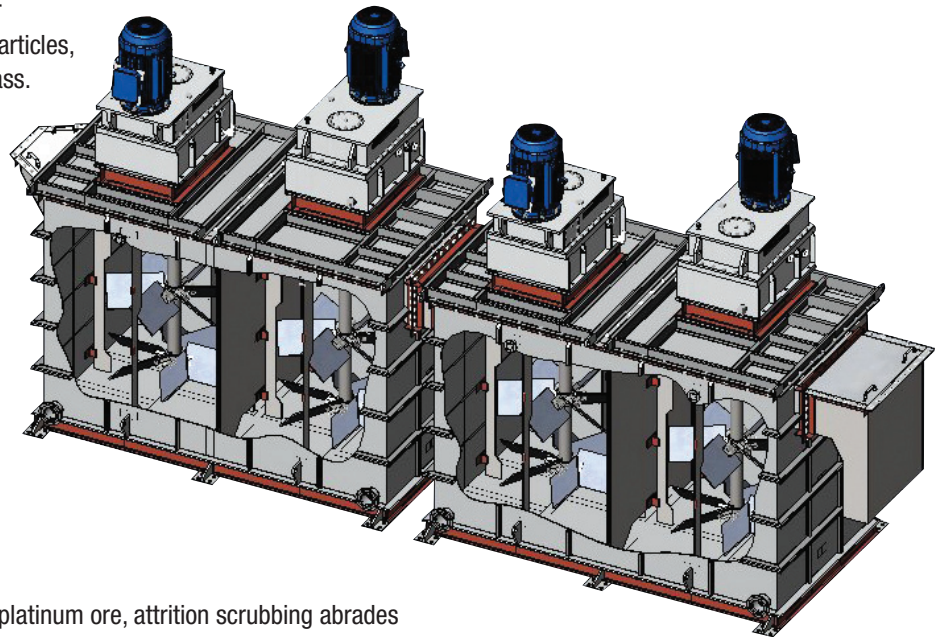
Removes surface contaminants.

## PLATINUM PROCESSING

Gangue quartz is the host material for platinum ore, attrition scrubbing abrades the quartz exposing the mineral to reagents for processing through the flotation cells.

## NICKEL, COPPER & COBALT PROCESSING

Particle cleaning reduces reagent consumption and increases recovery in the flotation operation.



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