

PROMAT

THE PERFECT GRAVIMETRIC LIME SLAKING SYSTEM

Projects are engineered to meet the process needs as dictated by site conditions and considering time constraints. Projects can be constructed, commissioned and operational in a minimum amount of time to keep your production **ON SCHEDULE AND ON BUDGET**.

Projects that PROMAT has recently completed are:

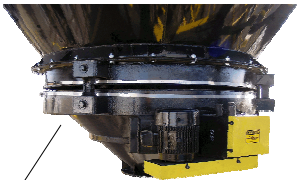
- A 500 ton lime slaking system for a large uranium company in the Canadian far north
- A turnkey lime slaking system for a major mining operation in Northern Ontario
- A lime slaking system with a vibrating bin discharger, retrofitted to existing silos for a major mining company
- A 150 tonne lime slaking system for a multinational mining company in Northern Europe
- A 200 tonne lime slaking system for a large mining operation in South America
- A portable lime slaking system for a company in Northern Manitoba



THE PERFECT GRAVIMETRIC LIME SLAKING SYSTEM



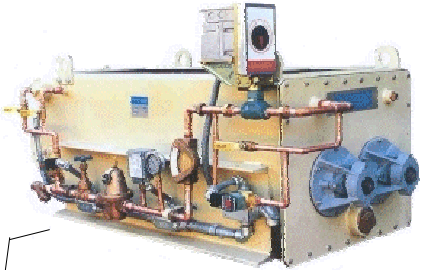
**GRIT DISCHARGE
SCREW CONVEYOR**



BIN ACTIVATOR



**WELDED OR BOLTED STEEL
LIME STORAGE SILO**



LIME PASTE SLAKER

The Heart of the Perfect Gravimetric Lime Slaking system is the Paste Slaker. The Paste Slaker utilizes two sets of counter rotating mixing shafts to provide proper mixing efficiencies, bringing lime and water into uniform, intimate contact. The



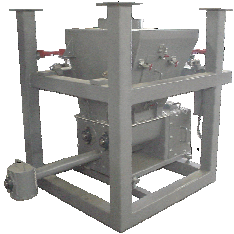
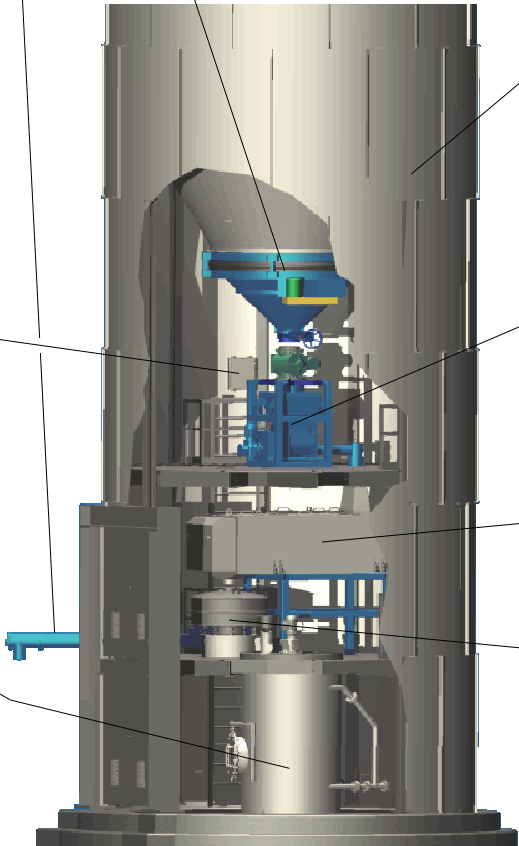
paste flows over a weir to the dilution chamber where spray nozzles provide dilution water while helping separate the lime particles from the grit. The resulting suspension exits the slaker into the vibrating circular screen separator for removal of inert material.

The Perfect Gravimetric Lime Slaking system comes with a complete controls system. The system components can be controlled with Local Panels, useful for setup, testing, and maintenance as well as a fully automated PLC based control system. The controls system can be tied to a plant DCS or can run the system as an independent unit.

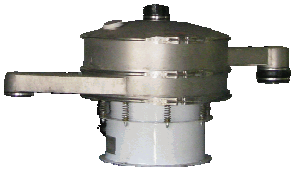
COMPLETE SYSTEM CONTROLS



**SLURRY AGITATION TANK AND
DUAL PUMP SKID**



LOSS-IN-WEIGHT SCREWFEEDER



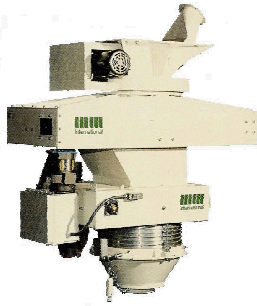
**VIBRATING CIRCULAR SCREEN
SEPARATOR**

PROMAT

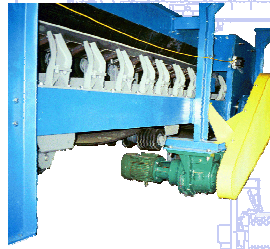
PROMAT ALSO ACTIVELY SUPPLIES



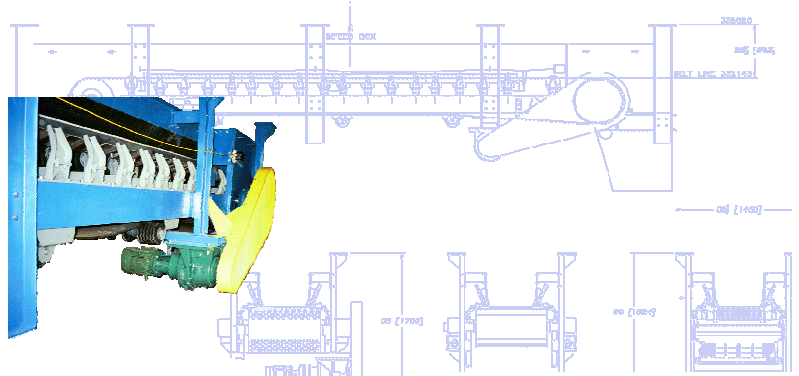
**BULK BAG UNLOADER
& BATCHING SYSTEM**



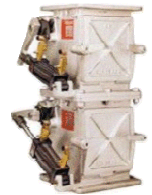
**DUST FREE
LOADING**



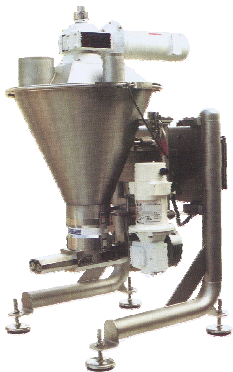
HEAVY DUTY BELT CONVEYOR



- **VOLUMETRIC FEEDERS**
- **INDUSTRIAL BLOWERS**
- **ROTARY FEED VALVES**
- **DIVERTER VALVES**
- **STORAGE SILOS (WELDED/BOLTED)**
- **LIME SLAKER (PASTE/DETENTION/ BALL)**
- **CHEMICAL FEED SYSTEMS (WET/DRY)**
- **EXTREME TEMPERATURE AND ABRASION FEEDERS**
- **EXPANSION JOINTS**



**DOUBLE FLAP
VALVE**



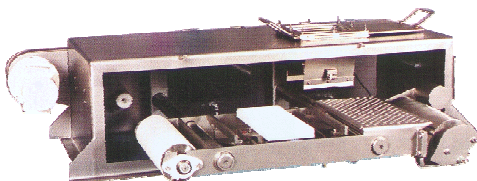
LIW FEEDER



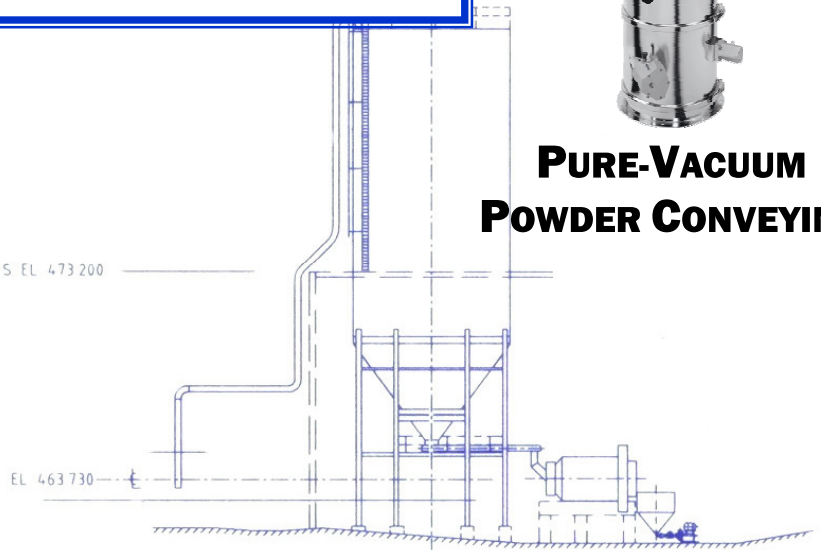
IN-LINE SIEVING



**PURE-VACUUM
POWDER CONVEYING**



WEIGHBELT FEEDER



STORAGE SILO & PNEUMATIC CONVEYING SYSTEM



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