



Custom Materials Processing & Recycling Program and Available Tolling Capabilities



New, Dedicated Material Crushing, Milling & Sizing Circuit for Recycling

- Jaw Crusher
- Roll Crusher
- Hammer Mill
- Pulverizer
- Ball-Breaker and Engineered Breaking Floor – for very large parts
- Screener System and integrated dust collection system



Newly recommissioned 3-phase electric arc fusion furnace

- Re-melt and Refine Materials
- Custom Fusions
- Additional Fused Zirconia Development

Milling Capacity



6) Jetmills

- (2) 24" Jetmills
- (2) 20" Jetmills
- (2) 15" Jetmills
- All are tungsten carbide lined
- 40-400 lbs./hour
- Volumetric feeders



(3) Sweco 80" D Vibrating Grinding Mills

- Model #M80
- Urethane lined
- 40 HP Drive
- ½" zirconia & alumina media
- 2500-4000 lbs. batches
- Able to pass mill



(3) 8' x 8' Harding Wet Batch Mills

- 2" alumina media balls/brick lined
- 75 HP motors
- 13,000-20,000 lbs. batches

Drying Capacity



4' W x 60' L Belt Dryer, gas fired, 10 burners

- Estimated 800-900°F operating temp.
- Belt is made of Stainless steel
- 1,000-2,000 lbs/hr of drying capacity
- Wet/dry feed system
- 3th Micro Plv system to take product from feed to final pack if desired



2) Quincy Tray Dryers

- Stainless steel pans
- 550°F max temp.
- 3,000 lbs. capacity, 18-24 hour drying cycle time

Firing Capacity



6' D x 60' L Rotary Calciner, gas, direct-fired

- Wet or dry feed
- Max temp. 2450°F
- 800-3,000 lbs./hour depending on feed rate desired
- Refractory lined

6' D x 50' L Rotary Calciner, gas, direct-fired



(3) Electric Rotary Harper Furnaces

- 6" x 4' long tube
- 3 zones
- Max temp. 1950°F
- Discharge magnet
- Volumetric feeders



Pusher Kilns, electric

- 3 double track and 10 single track;
- Wet or dry feed
- Max temp. 1260°C
- 16 Temperature zones (top/ bottom)
- Variable push rates 10 to 30 minutes
- Gas pre-heaters for wet feed to 800°C
- Saggars double stacked to max output

Blending Capacity



Large Cone Blender- Abbe 200 cubic foot

- 30,000 lbs. capacity
- Rotary air lock bottom valve
- 50 HP drive

50 cubic foot Cone Blender

- 5,000-7,500 lbs. capacity



(3) Patterson-Kelley V blenders

- 1600 lbs. capacity
- Intensifier bar (preset run times 1-5 minutes)



(26) Stainless and Rubber Lined Tanks

- Ranging from 750-22,000 gallon tanks for wet mixing products



Million Dollar Precision Weigh Station

- 2 side-by-side systems
- Computer recorded additions
- Able to read additions to .01
- 800 gallon stainless tank with lightning agitator for wet mixing
- Also able to make dry blends
- Available tanks to make +100,000 lbs. lots

Pulverizers



(4) 3ton/hr Micro Pulverizers 25 HP

- Screw fed
- (4) rows of hammers
- Various screens available

(1) 2ton/hr Micro Pulverizer, 10 HP

Idle Assets to be Utilized



Chemical plant used for Chemically precipitated BaTiO₃

- Fiberglass mix tanks
- Chiller system
- 4' x 40' Filter press
- Chemical storage tanks
- Solids/Neutralization system