

## PUMPS • MIXERS

### PROCESS PUMPS

- Low shear screw centrifugal
- ANSI
- API



### MOLTEN SULFUR

- Vertical bearing
- Vertical cantilever



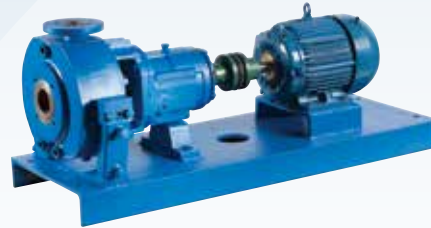
### VERTICAL CANTILEVER

- Recessed impeller and ANSI wet ends
- Wide range of material options



### HORIZONTAL MOLTEN SULFUR

- Full jacketed design
- Available in variety of metallurgy
- Special mechanical seal design



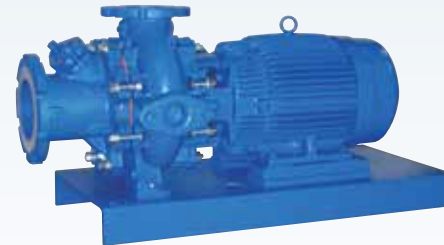
### SUBMERSIBLE

- Chopper
- Recessed impeller
- Screw centrifugal



### CLOSE COUPLED

- Lower shaft deflection
- No bearing frame to maintain
- Space saving footprint



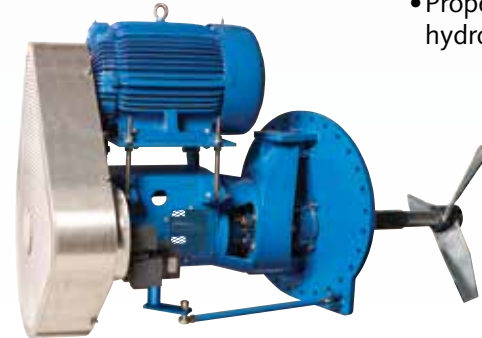
### DYNAMIC IN-LINE

- High shear mixing
- Small footprint
- Quick, complete dispersion



### PSE SIDE ENTRY

- Fixed or swivel design
- Tank shut-off device
- High efficiency hydrofoil impeller



### PORTABLE

- Compact, rugged design
- Baseplate, flange or clamp mount
- Propeller or hydrofoil impellers



### TOP ENTRY

- Wide range of HP and RPM
- Full range of hydrofoil impellers
- Computational fluid dynamics
- Mixing lab/test tank

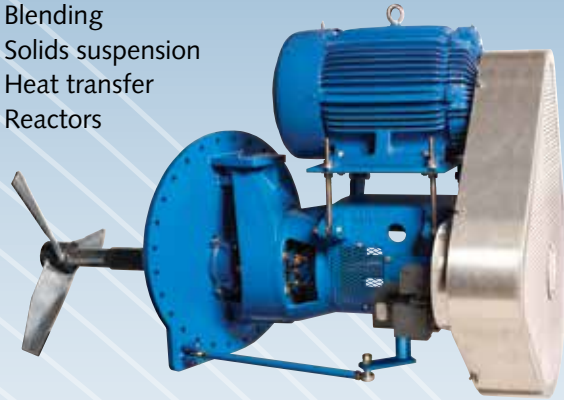


## GENERAL INDUSTRY

### MIXER

#### Common Mixer Applications:

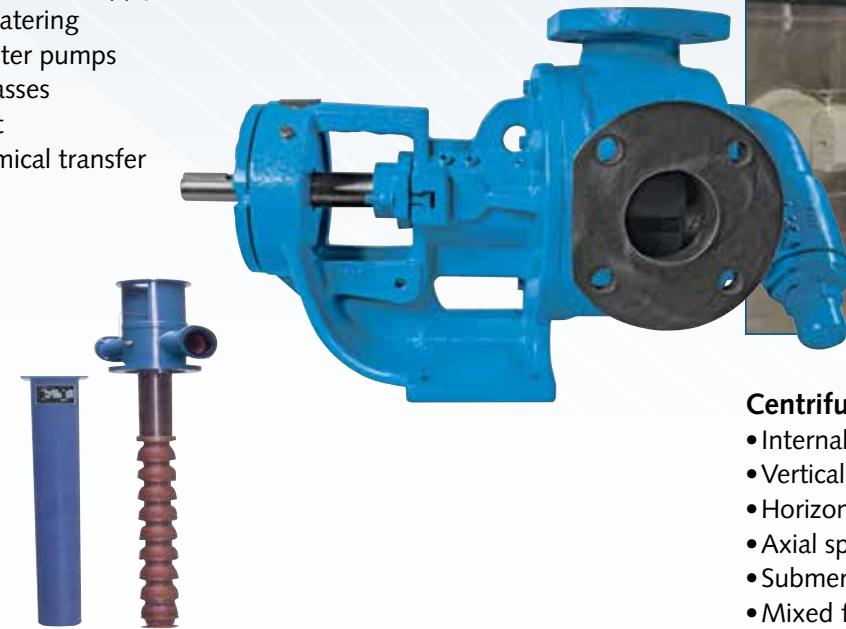
- Blending
- Solids suspension
- Heat transfer
- Reactors



### PUMP

#### Common Pump Applications:

- Fresh water supply
- Dewatering
- Booster pumps
- Molasses
- Paint
- Chemical transfer



#### Centrifugal Pump Designs:

- Internal gear
- Vertical turbine
- Horizontal multi-stage
- Axial split double suction
- Submersible
- Mixed flow

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PUMPS & MIXERS

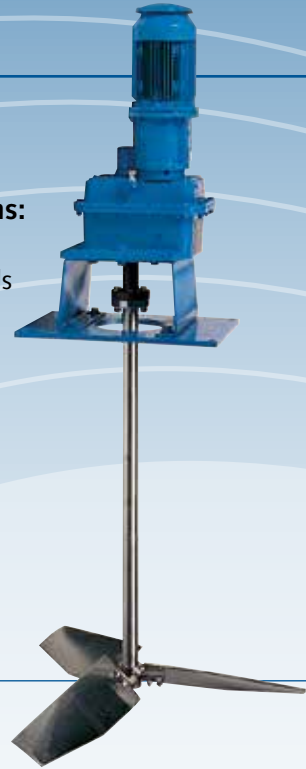


## CHEMICAL

### MIXER

#### Common Mixer Applications:

- Blending
- Suspending/wetting out solids
- Dissolving
- Dispersion/shear
- Heat transfer
- Mass transfer
- Polymers
- Crystallization



### PUMP

#### Common Pump Applications:

- High flow/low head
- Plant effluent
- Shear sensitive fluids
- Oil water separation
- Waste sludge and disposal
- Plastics
- Delicate slurries



#### Centrifugal Pump Designs:

- Screw centrifugal
- ANSI process
- Chopper
- Recessed impeller
- Vertical bearing and cantilever
- Submersible
- Cast iron, 316ss, hi-chrome, ni-hard
- CD4MCU, Alloy 20, Alloy C

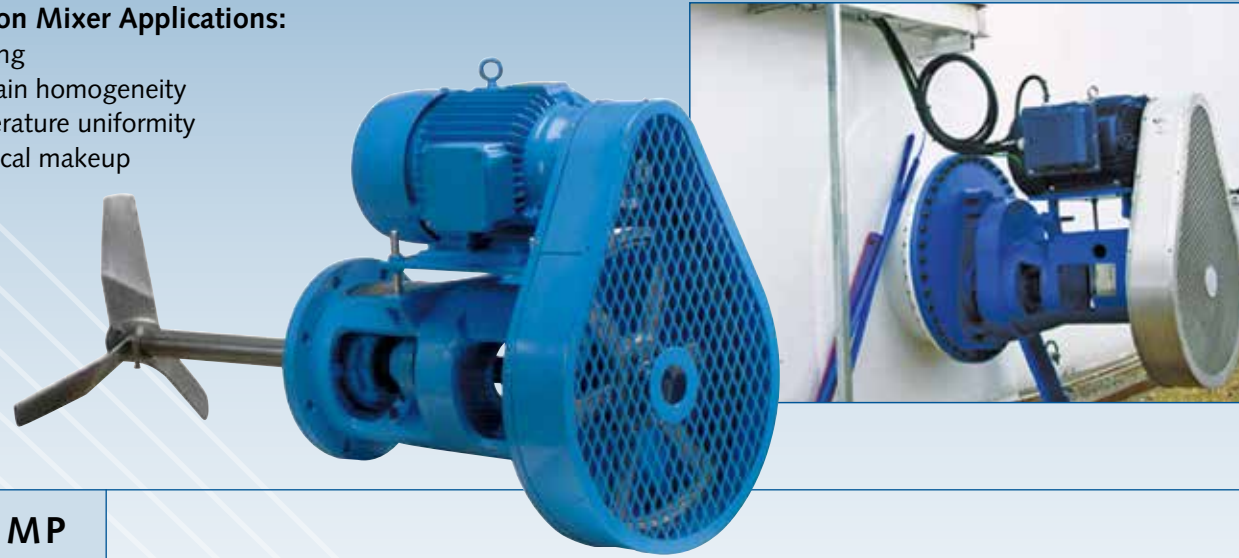


## OIL & GAS

### MIXER

#### Common Mixer Applications:

- Blending
- Maintain homogeneity
- Temperature uniformity
- Chemical makeup



### PUMP

#### Common Pump Applications:

- High flow/low head
- Plant effluent
- Shear sensitive fluids
- Oil water separation
- Waste sludge and disposal
- Plastics
- Delicate slurries



#### Centrifugal Pump Designs:

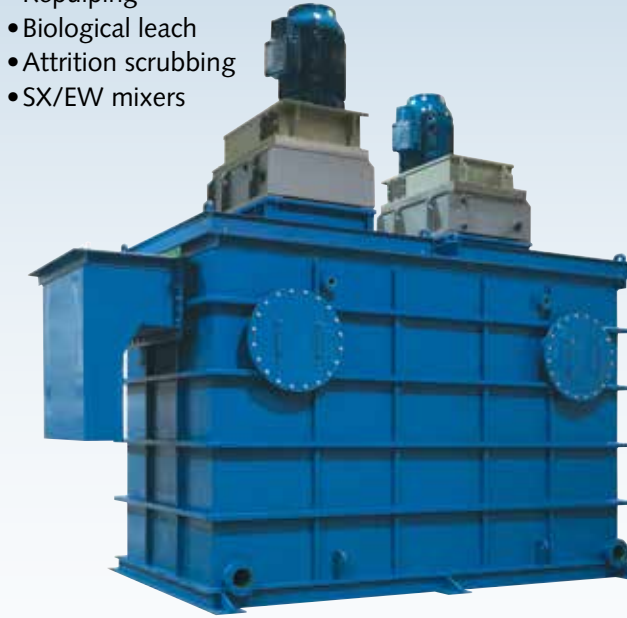
- Screw centrifugal
- ANSI process
- Chopper
- Recessed impeller
- Vertical bearing and cantilever
- Submersible
- Cast iron, 316ss, hi-chrome, ni-hard

## MINING

### MIXER

#### Common Mixer Applications:

- Cyanide leach
- CIL/CIP
- Pressure oxidation
- Conditioning tanks
- Filter feed
- Pipeline and concentrate storage
- Nickel and cobalt reduction
- Repulping
- Biological leach
- Attrition scrubbing
- SX/EW mixers



### PUMP

#### Common Pump Applications:

- Organic/aqueous solutions
- Crystallizers
- Lime/limestone slurry
- Electrolyte recirculation
- Coal slurries
- Delicate brine slurries
- Carbon transfer
- Thickener underflow
- Tailings water
- Roaster feed

