

# FLUID HANDLING PUMPS AND SYSTEMS FOR THE MINING INDUSTRY



## INNOVATIVE, INDUSTRY-LEADING SOLUTIONS

As one of the largest positive displacement pump manufacturers in the world with a broad range of centrifugal technologies, CIRCOR supplies the pumps and engineered systems you need to ensure reliable mining and mineral processing operations with the utmost attention to lifecycle cost effectiveness. Our comprehensive pumping portfolio delivers the industry's broadest capabilities to handle mining-related liquids of every viscosity, pressure, flow rate and composition.

## TECHNOLOGY STRENGTHS

- ◀ Wide range of positive displacement technology
- ◀ Wide range of viscosity
- ◀ Smooth, pulsation-free flow
- ◀ Low shear for sensitive emulsions
- ◀ Abrasion – resistant designs and materials
- ◀ Corrosion-resistant designs and materials
- ◀ High Pressure capability
- ◀ Specialized centrifugal and propeller designs

## PERFORMANCE DATA RANGE

|                            |                           |
|----------------------------|---------------------------|
| <b>Viscosity:</b>          | 0.5 to 2 Million CP       |
| <b>Suction Pressure:</b>   | 0 to 1800 PSI             |
| <b>Discharge Pressure:</b> | Up to 2000 PSI            |
| <b>Temperature:</b>        | Up to 750° F              |
| <b>Flow rates:</b>         | 0.05 cc/rev to 1000's GPM |



ALLWEILER® HOUTTUIN™  
IMO® TUSHACO®  
WARREN® ZENITH®

## PROGRESSING CAVITY PUMPS

**Brand: Allweiler**

- ◀ Explosive emulsions
- ◀ Grout placing & strata control
- ◀ Flocculent injection
- ◀ Oily sludge and slop pump
- ◀ Drain sump pump
- ◀ Sewage, Tailings pump
- ◀ Separator feed pump
- ◀ Organic & electrolyte streams
- ◀ Slime, mud, flotation froth pulp
- ◀ Pregnant leach solutions, resins
- ◀ Ground lime pastes



## SPECIALIZED GEAR PUMPS

**Brand: Zenith**

- ◀ Flocculent metering
- ◀ Coagulant metering
- ◀ Additive metering



## SPECIALIZED CENTRIFUGAL PUMPS

**Brand: Allweiler**

- ◀ Chemical transfer
- ◀ Diluents
- ◀ Solvents or lixiviants
- ◀ Electrolytes, Electrowinning
- ◀ Chelating Agents
- ◀ Thermal fluids
- ◀ Hot water or glycols
- ◀ Surfactants, wetting agents (froth floatation)



## PERISTALTIC (HOSE) PUMPS

**Brand: Allweiler**

- ◀ Sump dewatering
- ◀ Sulphuric acid
- ◀ Slimes pumping
- ◀ Wastewater chemical additives



## SCREW PUMPS

**Brand: Allweiler, Houttuin, IMO, Warren**

- ◀ Ball mill lubrication
- ◀ Jacking oil
- ◀ Lube scavenging
- ◀ Hydraulic oil
- ◀ Fuel oil



## PROPELLER PUMPS

**Brand: Allweiler**

- ◀ Fresh water
- ◀ Wastewater
- ◀ Salt water
- ◀ Activated sludge
- ◀ Evaporation process



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