SiC Ceramic Slurry Pump for Abrasive Applications

This slurry pump is designed for applications in mining, metallurgy, and chemical processing. It is capable of handling large solids and slurries with high weight concentrations, such as mineral or ash slurry.

Product Overview

High-Performance SiC Ceramic Slurry Pump

The HAH and ZVT series are heavy-duty centrifugal pumps engineered for demanding industrial environments, including mining, metallurgy, coal power plants, and chemical processing. Featuring advanced sintered silicon carbide (SiC) ceramic wet parts, these pumps offer exceptional abrasion and corrosion resistance, delivering a service life 3 to 8 times longer than traditional metal pumps. Their versatile design supports high slurry weight concentrations, making them an ideal solution for optimizing efficiency and reducing operational costs.

Technical Specifications

Wet Parts Material	Sintered Silicon Carbide (SiC) Ceramic
Sintering Temperature	1400 °C
Available Seal Types	Gland Seal, Packing Seal, Expeller + Gland Seal, Mechanical Seal

Performance Metrics

Slurry Concentration Handling

60 %	45 %
Mineral Slurry Max Weight	Ash Slurry Max Weight

pH Range	pH 0-12

Advantages

Key Performance Benefits

- Abrasion resistance 4x higher than high-chrome alloys
- Corrosion resistant to most acids and alkalis
- High impact resistance for large solids
- 3-8x longer lifetime compared to metal pumps
- Energy saving and cost reduction of 20-40%

Design Features

Adjustable Features

- Adjustable discharge direction via bolt connection
- Gap adjustment between impeller and throat bush for peak efficiency