

TOP MOUNTED

REMOTE MOUNTED

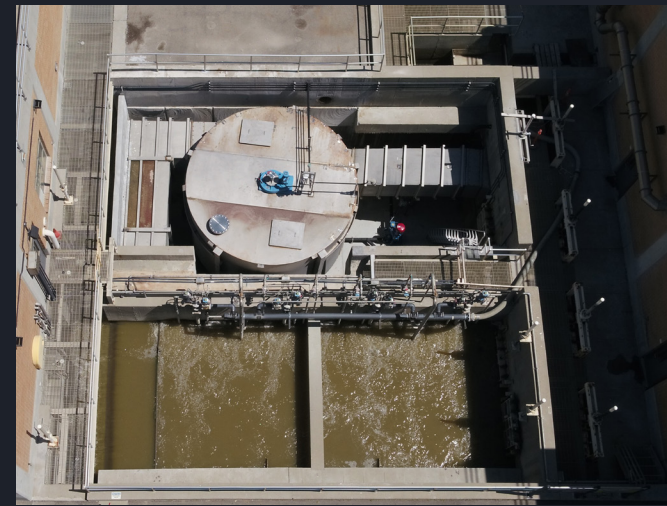
The innovative **PISTA® TURBO™** Grit Pump is available in both top-mounted vacuum-primed and remote mounted flooded suction. Special features include a Ni-Hard volute, Ni-Hard recessed impeller, stainless steel shaft, heavy-duty bearings and mechanical seal.

Email retrofit@smithandloveless.com to start your order for the **PISTA® TURBO™** Grit Pump with four-inch and six-inch piping arrangements based on your needs.

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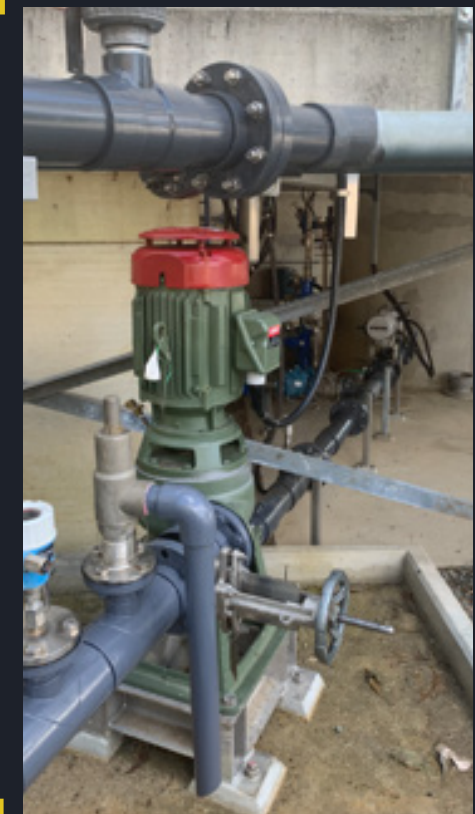


- **1960s – The vacuum primed pump was created**
- **1980s – The first grit pump was created**
- **1980s – The vacuum primed grit pump was created**
- **Eliminates additional excavation required for a pump room**
- **Drops prime after each cycle, minimizing the potential of clogging**
- **Options for additional redundancy (spare rotating assembly - pump motor, pump seal and impeller)**

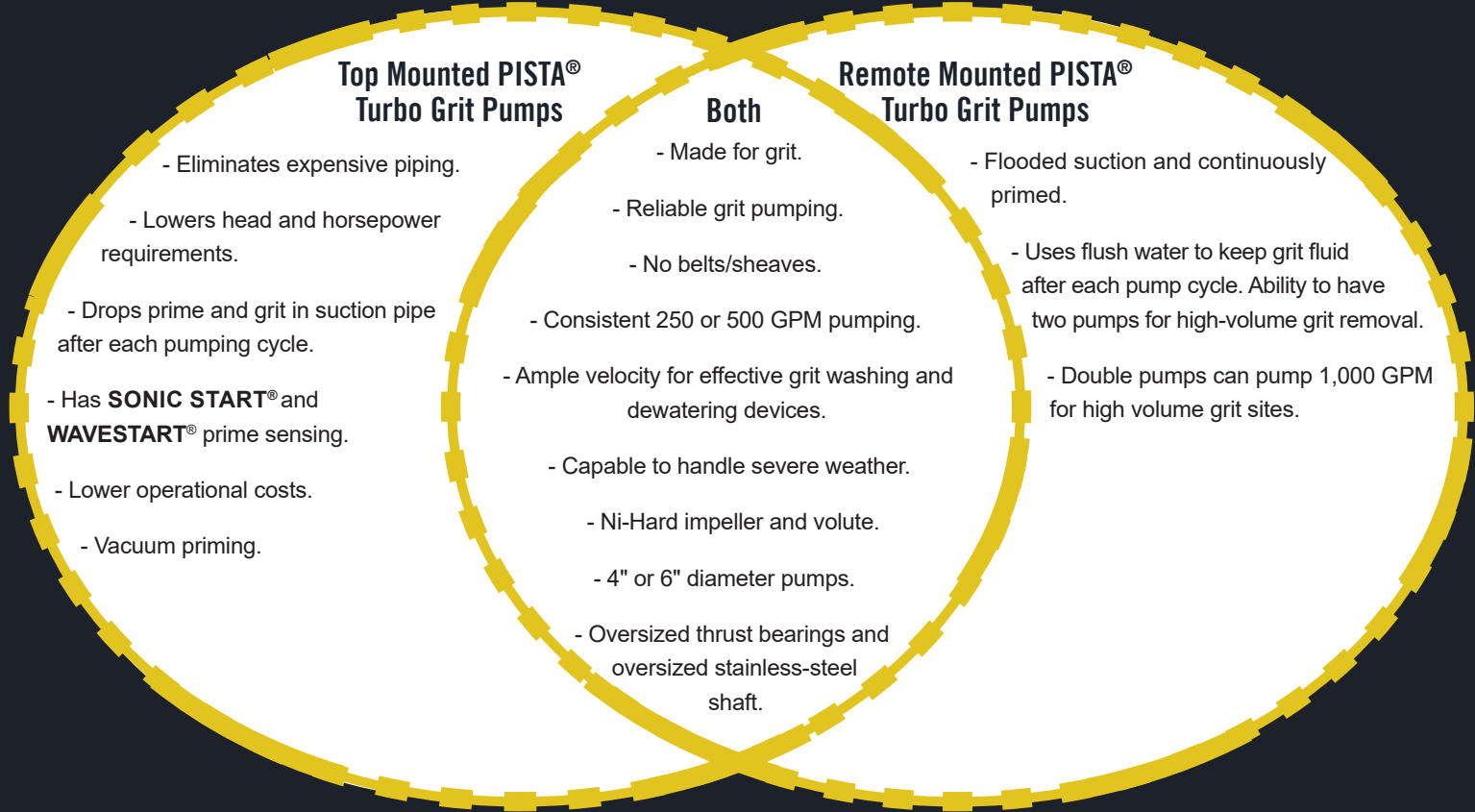


- **No priming cycle required**
- **Allows for two pumps per chamber**
- **Uses flush water to fluidize suction pipe**

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VACUUM PRIMING VS. FLOODED SUCTION



Need redundant pumps?

We recommend each pump has its own suction and discharge line. Opt for straight, 10-feet maximum suction pipe length that discharges all the way to the hydrocyclone.

OPERATION OF THE PISTA® Flushing vs. Fluidization

Flushing

- Injection of plant effluent water into the suction side of a flooded suction grit pump, reduces chances for clogs or slug of grit entering the pump.
- Not required for a top mounted grit pump.

Fluidization

- Uses agitation to prevent grit compaction in the lower chamber.
- Uses fluidizing vanes rather than fluidizing water. Fluidizing vanes are attached to an extended drive tube and extend into the lower chamber, providing mechanical agitation.
- Fluidizing vanes eliminate the need for using constant fluidizing water.

S&L VS. HORIZONTAL BELT DRIVEN GRIT PUMPS

S&L Grit Pumps

- Vertical, direct coupled pump, easier to maintain.
- No belt maintenance.
- Keep grit slurries inside the pump volute when accessing impeller or removal of the rotating assembly.
- Take up less space.
- Do not require shaft sleeves.
- Driven by a solid stainless steel shaft.

Horizontal Belt Driven Grit Pumps

- Grit slurry spills when split open for accessing the impeller.
- Belt maintenance required.
- Take up more space.

Both

- Non-clogging, recessed impeller, torque-flow vortex type.
- Contain Ni-Hard impellers and Ni-Hard volutes per specifications.