

HEAVY
PUMPS

TOYO
PUMPS



DIESEL-POWERED MOBILE SLURRY PUMPS

THE INDUSTRY'S ONLY HIGH CHROME SOLIDS-
HANDLING MOBILE SELF-PRIMING SYSTEM

DIESEL MOBILITY, CAPABLE OF TRANSPORTING CLASS 4 SLURRIES, BUILT TO YOUR SPECIFICATIONS

DIESEL-DRIVEN SLURRY SOLUTIONS

PUMPING WHEN POWER IS NOT AN OPTION

Hevvy/Toyo Pumps' Mobile Diesel-Driven Slurry System is the industry's only engine and slurry pump in one contained compact portable unit designed in-house, in North America, and engineered for the most rugged applications. Hevvy/Toyo's Mobile Diesel-Driven Slurry System allows you to have a heavy duty High Chrome pumping unit, capable of pumping up to class 4 slurries, when electric power is out of reach and portability is key.

TRAILER

KEY FEATURES

- ▶ Structural steel frame
- ▶ Integral tubular design
- ▶ Lockable fuel tank and control panel
- ▶ Pressure-tested fuel cells
- ▶ Torsional flex axles
- ▶ Liquid cooled diesel engine
- ▶ **Available package options:**
 - ▼ skid,
 - ▼ trailer,
 - ▼ sound attenuated,
 - ▼ or custom package



BUILT TO YOUR SPECIFICATIONS

Our diesel-driven slurry solutions are as modular as our pump design; best of all, you can place a heavy duty Hevvy/Toyo horizontal high chrome slurry pump anywhere you want.

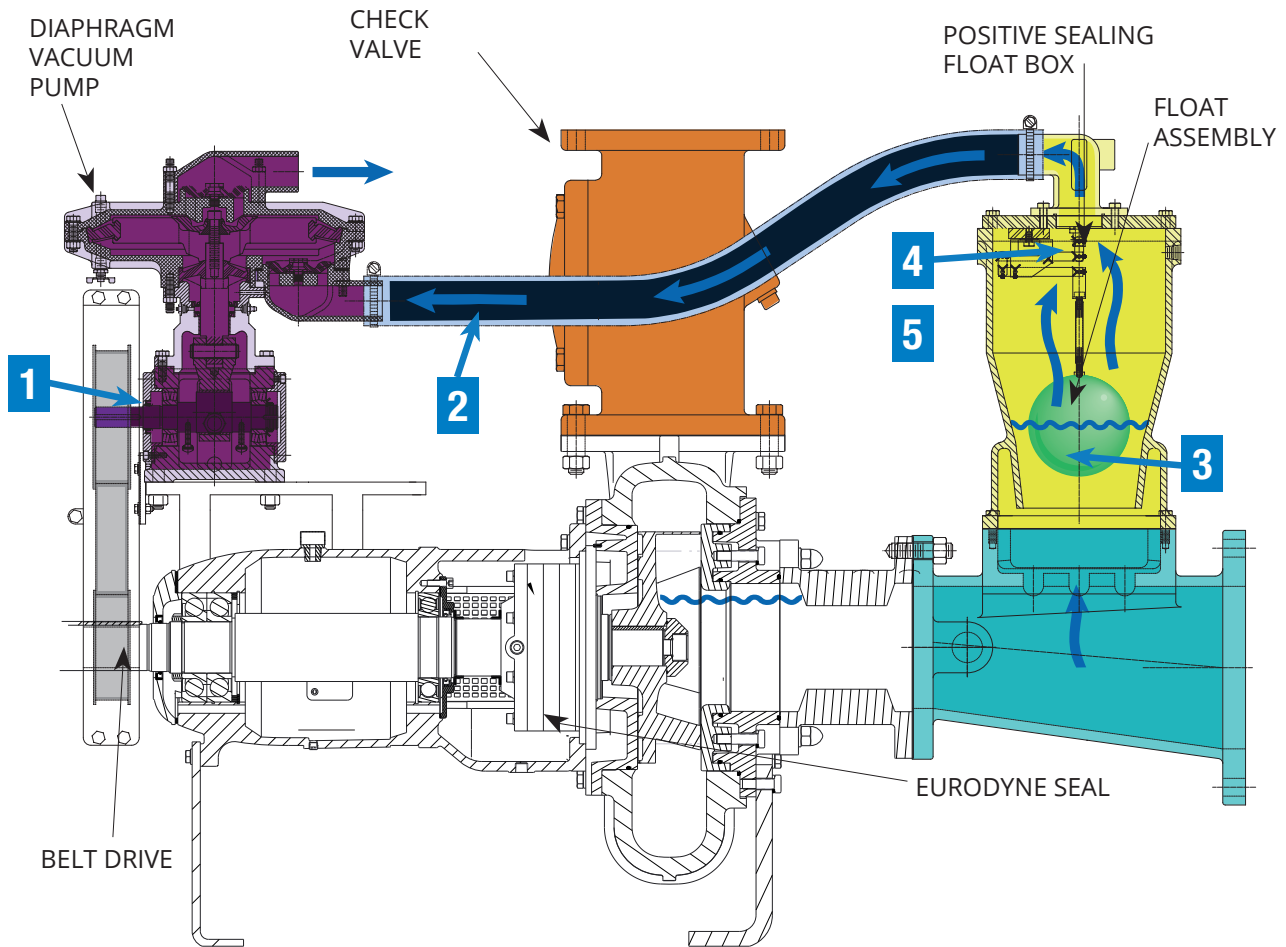
PRIMING SYSTEM

FULLY AUTOMATIC PRIMING AND REPRIMING

- ▶ Rapidly primes and re-priming completely unattended
- ▶ Patented EuroDyne and Double Mechanical Run-Dry seal options
- ▶ Does not impede solids handling of pump
- ▶ No change in suction lift capacity and flow rates
- ▶ Check valve eliminates any liquid carry over
- ▶ Environmentally safe priming system designed to prevent product leakage



CROSS-SECTIONAL



- 1** Vacuum pump begins operation via v-belt connected to main pump.
 - a. Simple design allows for quick start ups, and zero maintenance during operation.
 - b. No need for operator supervision or checks, designed to run hands free.
- 2** Air is evacuated and discharged from the top of the vacuum pump. Vacuum pump capacity is 50 CFM for quick and consistent air evacuation.
- 3** As the main pump is being primed, the water level in the priming chamber will begin rise. This in turn will raise the float ball.
- 4** Once pump is primed the float assembly cuts off supply to vacuum pump, preventing liquid ingress.
 - a. The float ball is connected to a mechanical arm that cuts of air supply to the vacuum pump when lifted past a certain level.
 - b. There is no need to adjust anything when priming chamber cuts off air supply, the vacuum pump is still operational and can continue being run safely.
- 5** Should pump lose its prime, the float will drop, and the cycle continues again from step 2.

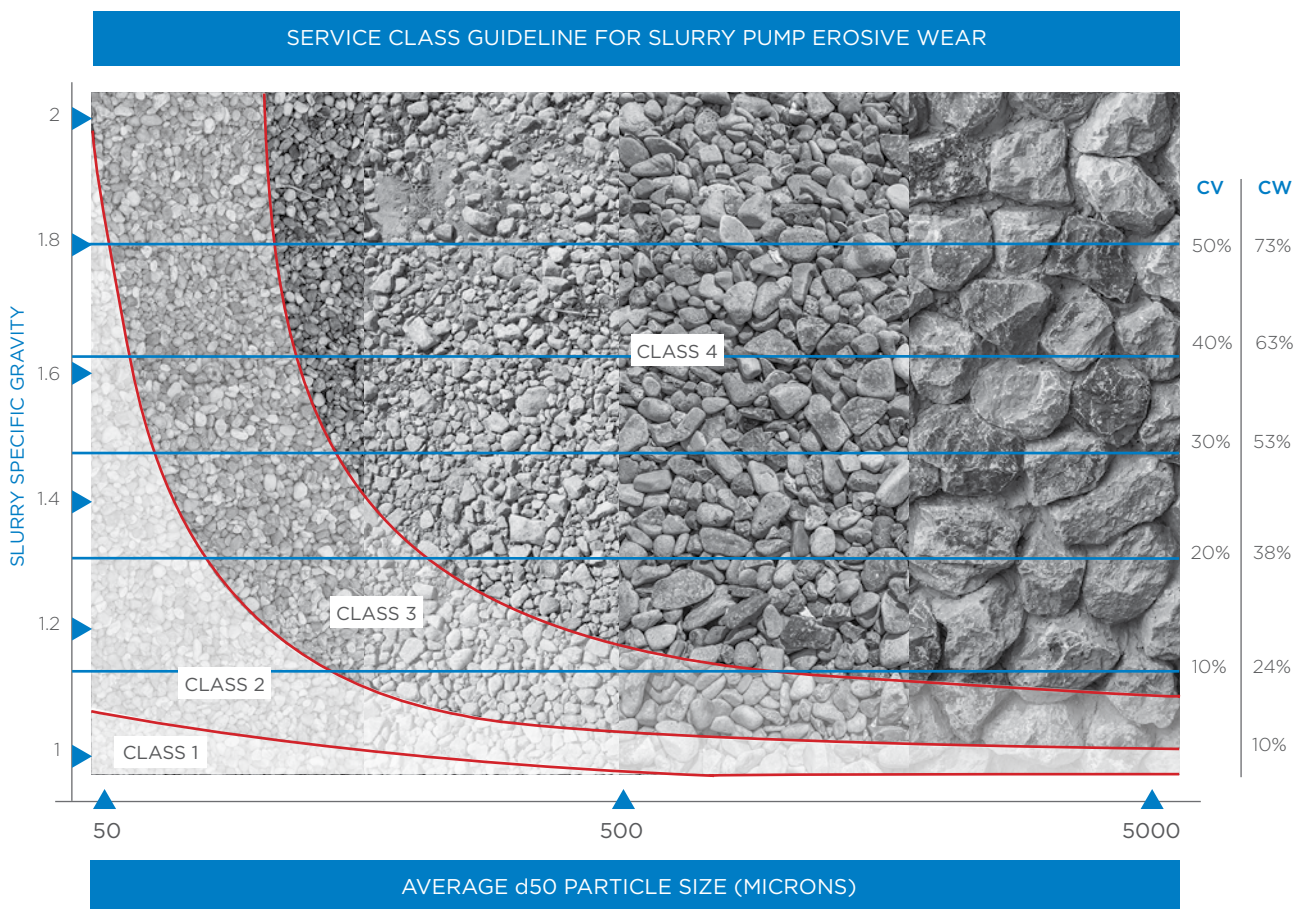
HEVVY SLURRY

CLASSIFICATIONS

At HEVVY PUMPS we were born out of our passion for pumping solids. The majority of pumping companies began life as a water pumping company. Therefore, if they now offer a “slurry” pump, they’ve simply adapted one of their water pumps to do a slurry pumps’ job. This is not always the ideal solution (similar to asking a pick-up truck to do a dump truck’s job).

To find the right solution for your application it is important to first understand what it is you are trying to pump. Slurries come in many shapes, sizes, weights, levels of abrasion or corrosion and consistency. For your convenience, the industry defines slurries by classes. We have included a very simplified chart (see below) to assist you in understanding what slurry class you might be dealing with. As always we are happy to help you choose the right solution for your application. Please give us a call if this is all as clear as well... slurry.

SLURRY TYPES: SILT | SAND | TAILINGS



The above chart is for use as a guide only. It assumes 2.65 Ss silica-based solids. Adjust rating to account for solids of different abrasivity using ASTM G75-95. The chart is based on the Hydraulic Institute’s Slurry Class guideline. For more information about the HI Slurry Classes please visit <http://pumps.org> or call HEVVY PUMPS for assistance.

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