



MISSION 2500-AG Centrifugal Slurry Pump

The MISSION™ 2500-AG™ Centrifugal Slurry Pump is proven as a premium lagoon pump. The 3-vane semi-open impeller is capable of producing high pressures and volumes without clogging. The 2500-AG centrifugals are able to perform suction and discharge to pass a 2 $\frac{7}{8}$, 3 $\frac{7}{8}$, 4 $\frac{7}{8}$ and 5 $\frac{7}{8}$ in. sphere respectively. The semi-open impeller design reduces the amount of solids behind the impeller thus increasing the life of the stuffing box, impeller and mechanical seal. The 2500-AG impellers are wide, allowing exiting fluid to blend smoothly with recirculating fluid. This reduces eddy flow patterns, essentially reducing wear caused by sand and other abrasive fluids.

Complimenting the 3-vane impeller is the concentric casing design. The casing is an equal distance from the impeller OD throughout the ID of the casing. This creates a smooth flow pattern and allows the pump to be operated at near shut-in without damage.

The frame is a strong cast iron body with solid base plate. The shaft is 2 $\frac{1}{2}$ in. in diameter at the seal area and 3 in. in diameter between the bearings. This heavy-duty shaft design reduces shaft deflection to less than 0.005 of an inch. A shaft sleeve at the seal area protects the shaft while the bearings are protected by labyrinth bearing cap seals. 2500-AG centrifugals utilize top quality bearings engineered for high loads. All of these features combine to produce a low maintenance pump that will provide dependable trouble free service.

2500-AG pumps are provided with tungsten carbide vs. tungsten carbide type I mechanical seals as standard. The tungsten carbide material has proven to be superior when handling abrasive fluids. Olympia™ double mechanical seals are available upon request. Olympia seals are a double mechanical seal that are lubricated by a barrier fluid. These seals are not affected by the fluid being transferred and will not be damaged if the pump fluid end is allowed to run dry. Pumps with shaft packing are also an option.

2500-AG pumps are available in the following sizes: 4x3x13, 5x4x14, 6x5x14 and 8x6x14.

Custom operators respect the abilities of the 2500-AG.

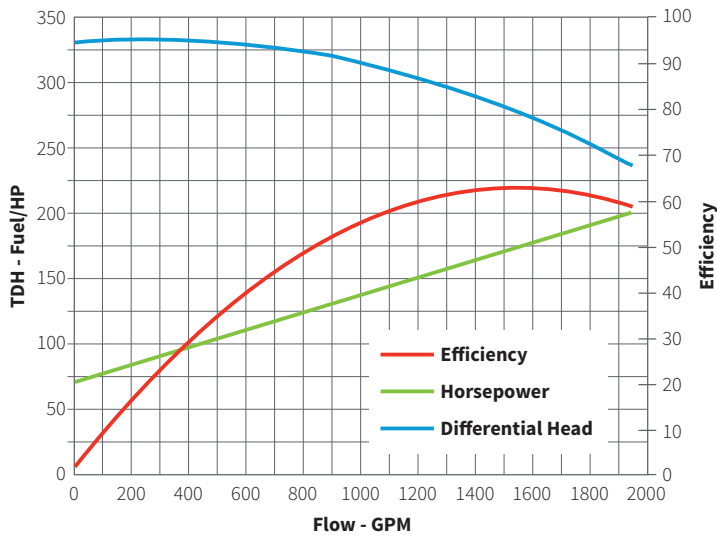
One customer reports, "I have three 2500-AG pumps in my fleet with over 7,000 hours of operation pumping over 300 million gallons of sawdust and sand lagoons. 2500-AG pumps have reduced my operating costs and eliminated our down time. We no longer have problems with our lagoon pumps plugging."



3-vane impeller displayed without casing

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**6x5x14 2500-AG with 14 in.
3-Vane Semi Open Impeller at 2200 rpm**



**8x6x14 2500-AG with 14 in.
3-Vane Semi Open Impeller**

