



**SMART
TURNER
PUMPS**

Manufacturing of 6WJFS Vertical Non -Clog Centrifugal Pump System for the Sewage / Wastewater Industry



Rendering of the Pump

When a wastewater client contracted **Smart Turner Pumps Inc** to develop a non-clog centrifugal pump system to transport raw sewage for treatment and processing, we knew that the system would need to conform to high design standards. Taking into consideration the rating, capacity, and performance benchmarks of end user requirements, our expertise and experience enabled us to deliver an effective overall product including an 8" diameter inlet and 6" diameter discharge with a flow of 1934 USGPM and a 150' head.

In order to further increase the pump's efficiency, we applied two coats of a Performance Coating, which also increased abrasion and chemical resistance and is safe for the municipal wastewater use. We built the pump's vertical mount, and supplied the 100 HP motor to NEMA premium efficiency standards, ensuring reliable and virtually uninterrupted operation for our customer.

Project Highlights of a Non-Clog Centrifugal Pump System

Product Description	This 6WJFS Pump is used within the sewage industry to pump raw sewage, and can handle solids up to 3".	
Capabilities Applied/Processes	Lathe, Vertical lathe, Horizontal boring mill, Milling Machine	
Overall Pump Dimensions	Length (Pump Only): 54.0625" Width: 22" Height: 22"	Suction Inlet: Ø8" Discharge Outlet: Ø6"
Tightest Tolerances	±.0005 (I assume this is referring to the manufacturing of the unit).	
Material Used	Casing, Impeller: Cast Iron ASTM A48 Class 30 Shaft: 1045 Steel	Shaft Sleeve: 316 Stainless Steel
Finish	Performance Coating on Pump Internals 2 Coats Increases pump Efficiency up to 7%	Increases abrasion resistance Increases chemical resistance

Features	Pump 1,934 USGPM 150 feet of head 1,780 RPM 125# ANSI Flat Faced Flanged Connections Motor Specifications: 100 HP	1,800 RPM 3/60/575 Volt TEFC Enclosure Vertical Mount IEEE841 Severe Duty Motor NEMA Premium Efficiency
Fluid Transported	Fluid: Raw Sewage Temperature of 60°F	
Estimated Part Weight	1,225 lbs.	
Industry for Use	Sewage	
Quantity	1	
Turn Around Time	8-10 Weeks After Receipt of Order	
Delivery Location	Camrose, Alberta, Canada	
Standards Met	Customer supplied specifications	
Product Name	Manufacturing of 6WJFS Non-Clog Centrifugal Pump	