



BUILDING FROM THE BOTTOM UP



PRODUCT:

12GHH Global High Performance High Head Pump

LOCATION:

Davison, Michigan

SCOPE OF ENGINE USE:

Cat® C18 Tier 4 Final, EU Stage V

CAT DEALER:

Michigan Cat

<https://www.michigancat.com>

WEBSITE:

<https://www.globalpump.com>



FEATURED TOPIC:
Industrial Engines

Recently, mining activity has increased across the country. With more mines needing to push deeper, the need for groundwater management has heightened. High head centrifugal diesel pumps are often required to run continuously, potentially pumping many thousands of gallons per minute. If one of these pumps fails, the entire pumping system could be flooded. It's essential to have a pump with a robust, reliable design that's able to operate through various conditions. Global Pump rose to the occasion to create a pump for these specific demands.

Global Pump was formed in 1997 from Mersino Dewatering, Inc., the Mersino family's business. Nine years prior, the parent company was founded to install groundwater dewatering systems with sub-grade pumping systems. Unsatisfied with the diesel pumps being purchased from other manufacturers, founder Rod Mersino set out to build a better product.

MORE FLOW, LESS FUEL

That's the approach that Global Pump has taken to its entire product line, including the portable 12GHH Global High Performance High Head pump. Used in a variety of pumping applications, including dewatering, sewer bypass and flood control, the 12GHH can deliver max flows of 7,950 gallons per minute and has a shut-off head approaching 700 feet. The double volute design means that water flows more smoothly through two passages inside the pump to balance out the pressure that would otherwise increase inside the shaft, while a state-of-the-art enclosed impeller secures high efficiency for major fuel savings.

"Our pumps are not only rugged and capable of uninterrupted operation, they also help customers save tremendous amounts of money on fuel consumption due to their efficiency. In many cases, the operational cost savings are enough to pay for a pump purchase in the course of only one year," noted Gino Mersino, president of Global Pump.

PUMPING TO THE LIMIT

Serving the rental and end user markets across all of North America and into South America, Global Pump knew that their products had to withstand more than

just routine wear and tear. They specifically set out to design the most rugged pump manufactured with only top quality materials. Cast steel is the standard construction for the 12GHH, which allows for field weld repairs that would not otherwise be possible with other alloys. And recently, Global Pump made the 12GHH available in a new high-grade duplex stainless steel. The CD4MCu alloy construction offers this 12GHH model superior corrosion and abrasion resistance, when facing gritty acidic and alkaline pumpage.

“We’ve invested more into our products so that we always put forth the best and most reliable performing product. When customers see our pumps in action, they observe first-hand the difference that can make,” Mersino commented.

POWERING UP FULL PUMPING CAPABILITIES

Global Pump’s engineering team selected and equipped the 12GHH with a Cat® C18 Tier 4 Final, EU Stage V diesel-driven engine, which has been proven to be exceptionally reliable for even the most strenuous pumping applications. Maxing out at 800 horsepower, the C18 aids the 12GHH by maintaining peak operating speeds in these situations that otherwise could result in catastrophic damage to the pump end.

“The Cat C18 not only provides us with the higher horsepower we need, but it also serves as a longer-life asset while meeting all clean-air requirements for Tier 4. We’ve had exceptional performance with it,” Mersino shared.

SAY WHEN AND WHERE FOR SERVICE

Since entering the business, Global Pump has had a close relationship with Caterpillar. Michigan Cat helped select the C18 engine and has since continued to support new modifications. But that’s not all that Global Pump relies on their Cat dealer for. Their technical support has helped Global Pump assist clients in remote regions around the world.



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LET'S DO THE WORK.™

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