Finish Thompson Mag-Drive Pumps Prove Ideal for DEF Systems

"Finish Thompson pumps are a great fit for DEF applications. They improve productivity by providing the higher pressures and flow required to fill larger equipment tanks in short time periods through the specialized DEF filling nozzles... Fireball has made sales to new markets that wouldn't have been possible without the Finish Thompson MSDB pump."

Diesel Exhaust Fluid (DEF) has become an essential product for truck fleets and operations that support diesel-powered equipment. Due to its corrosive nature and high purity, DEF must be stored and handled carefully. Finish Thompson's mag-drive chemical pumps are ideal for these applications – for two reasons.

Reason #1: Comprehensive Solutions

"We have solutions for pumping everything from a five-gallon bucket to bulk supply tanks," explains Will Weathers, Finish Thompson Regional Manager. "Our broad range of products will suit portable, bulk, and drum dispensing systems. Finish Thompson pumps can service commercial fleets, agricultural equipment, construction equipment, as well as retail dispensing operations."

"Our SP Series self-priming pumps are perfect for medium- to high-flow requirements," notes Weathers. "For applications that require pulling from the bottom of a tank, we have our DB Series. And for emptying totes and other portable systems, we have drum pumps. Companies appreciate that we can provide solutions for all their systems. It simplifies the supply chain."

Reason #2: Sealless Technology

When exposed to air, DEF crystalizes. If the pumps used to transfer this fluid feature mechanical seals, the DEF will eventually crystalize around the seal. This breaks down the seal, damaging the pump and creating leaks that pose environmental and safety hazards and additional maintenance work.

"Finish Thompson mag drive pumps feature sealless technology," Weathers reports. "These pumps eliminate that exposure to the environment that causes leaks. This is a major advantage – a real game changer for DEF operations."

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FINISH THOMPSON INC.

Equipping DEF System Manufacturers to Reach New Markets

Fireball Equipment Ltd. specializes in commercial and industrial fuel and lubrication storage and dispensing systems. "With emissions regulations ramping up over the years, Fireball is expanding to larger applications and a bigger customer base," reports the local distributor. "Fireball needed a pump that could handle the engineering requirements for new on-site DEF dispensing systems."

Fireball DEF bulk storage and dispensing system for sites that require large storage volumes.

Andrew Gendre, Mechanical Engineer at Fireball, explains, "We have used Finish Thompson's DB6H pump for our smaller commercial dispense module – designed for use by municipalities, construction sites, and fuel retailers for highway vehicles. This pump provides the low-maintenance benefits of a sealless pump with the flow performance required for the smaller DEF tanks in these applications – economically. And now we've expanded operations and have used a multi-stage MSDB pump for our larger modules, designed for use by mine sites to fill haul trucks and other heavy construction equipment."

MSDB Series Multi-Stage Sealless Centrifugal Pumps

Multi-stage sealless centrifugal pumps are designed to produce much higher heads at lower flow rates for reliable, long-term, leak-free operation and are designed with the Finish Thompson sealless, magnetic drive system.

"The Finish Thompson pumps are a great fit for DEF applications," Gendre reports. "They improve productivity by providing the higher pressures and flow required to fill larger equipment tanks (400+ liters/100+ gallons) in short time periods (4 to 5 minutes) through the specialized DEF filling nozzles used on this equipment."

"Fireball has made sales to new markets that wouldn't have been possible without the Finish Thompson MSDB pump," reports the distributor.

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"The sealless design of our pumps makes them perfect for Fireball's applications," notes Juan Carlos Martinez, Finish Thompson Regional Manager. "Some of the mining locations using Fireball's products are in remote areas. The pumps need to be low maintenance due to the investment required to reach the area for repairs or replacement. The pumps also need to be able to work reliably when only used intermittently. Finish Thompson mag-drive pumps, with no mechanical seal, meet these requirements."

The distributor notes, "DEF is notorious for finding its way through connections and seals. Fireball liked the idea of a sealless mag-drive pump, which would result in reduced maintenance work hours, fewer part replacements, and definitely fewer issues with DEF seepage. They were also impressed with Finish Thompson's five-year warranty. No other manufacturer can top that for a magnetic drive pump."

"Finish Thompson has provided impeccable support and timely response through the entire process," adds the distributor. "Every design that Fireball has sent our way, someone at Finish Thompson has been there to respond and provide a solution."

Fireball Commercial DEF module.

Finish Thompson Inc. designs and manufactures pumps for the safe transfer of a wide variety of corrosive fluids. Products include sealless mag-drive centrifugal pumps with run-dry capability, mechanically sealed pumps, drum/barrel pumps, vertical mag-drive pumps, multi-stage pumps and the FTI Air line of air operated double diaphragm (AODD) pumps.

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