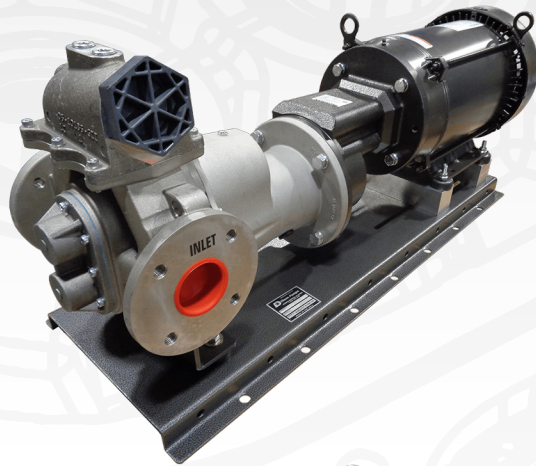


DIXON PUMPS

Innovative Fluid Transfer, Filtration, and Tank Cleaning Systems

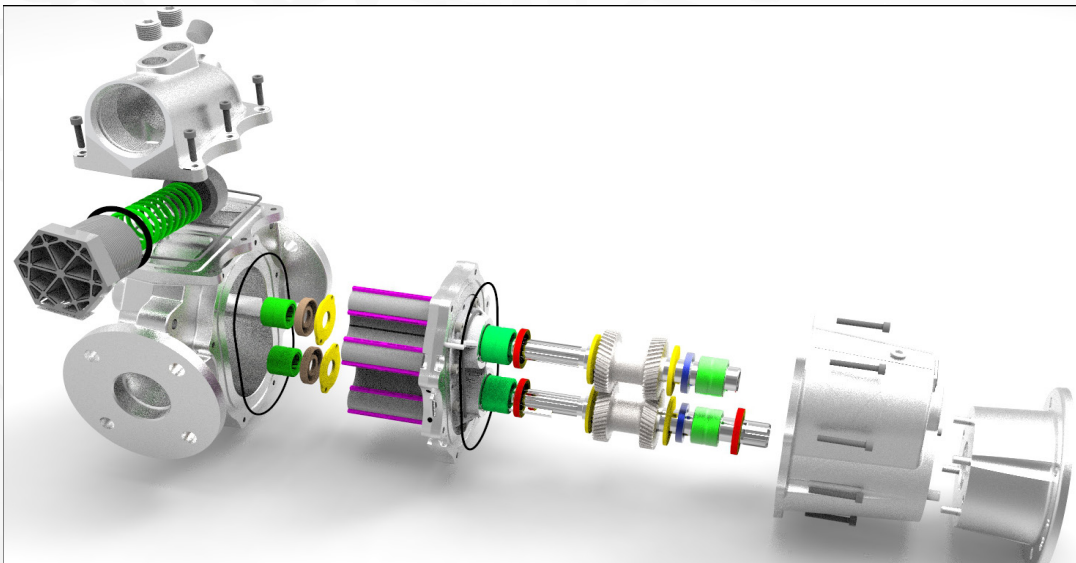




ABOUT DIXON PUMPS

For more than 30 years, Dixon Pumps has manufactured high quality positive displacement transfer pumps and systems. Our innovative pump design has set a new standard for quality and performance in the positive displacement pump industry, combining years of research and development with our patented design to produce the most durable and reliable pumps on the market today.

Our goal is to offer customers a class of products that they simply cannot find anywhere else. Powered by our patented Tri-lobe pump technology, our transfer skids, filtration systems, and tank cleaning systems are delivered to our customers' locations ready to go, providing a complete solution for every application.



DIXON PUMPS

 **DIXON PUMPS**

A SHAW DEVELOPMENT COMPANY



ABOUT SHAW DEVELOPMENT

Shaw Development is a global supplier of fluid management systems providing innovative solutions to OEMs and end users. Shaw has built a portfolio of companies that operate in diversified and highly demanding markets. Shaw Development engineers and develops proprietary products for commercial and military heavy-duty on and off highway ground vehicles. Shaw Development focuses on fuel, oil (hydraulic, lubrication and other), diesel exhaust fluid and other on-vehicle fluids. Aerox engineers and provides proprietary oxygen components and systems for production and in-service aerospace markets; and, Dixon Pumps engineers and industrializes proprietary products for industrial markets including oil and gas. Common values, vision and mission across all three companies ensures quality of technical development and superlative customer service. Our experienced staff dedicated to operational excellence is poised to become your technology partner.



To engineers, purchasers, and decision makers at global heavy-duty work equipment manufacturers, Shaw Development is an honest, client-oriented manufacturer of quality fluid management systems with a highly educated, advanced-degreed engineering team that is committed to continually improving its products. You will have confidence in your product and receive support, because this agile, all-in-one developer becomes your partner and provides comprehensive systems engineering with proven, field-tested products and extensive technical support throughout the products' life cycle.

ISO 9001:2008, ISO14001:2004, ISO/TS 16949 (Compliant)



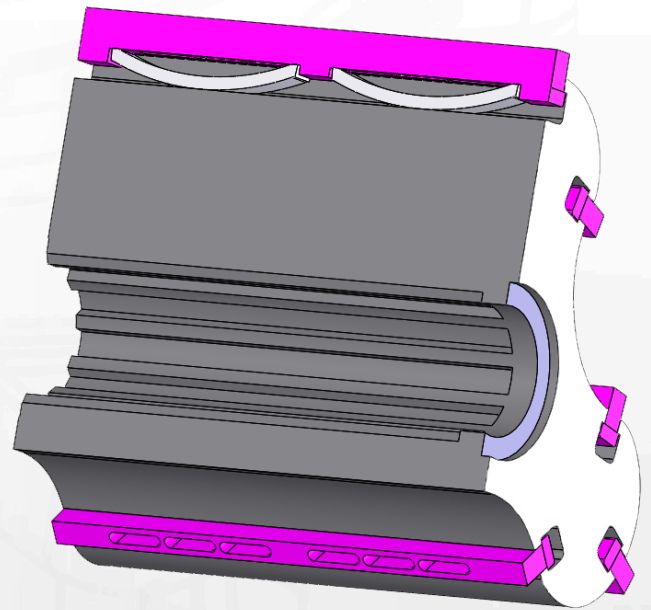
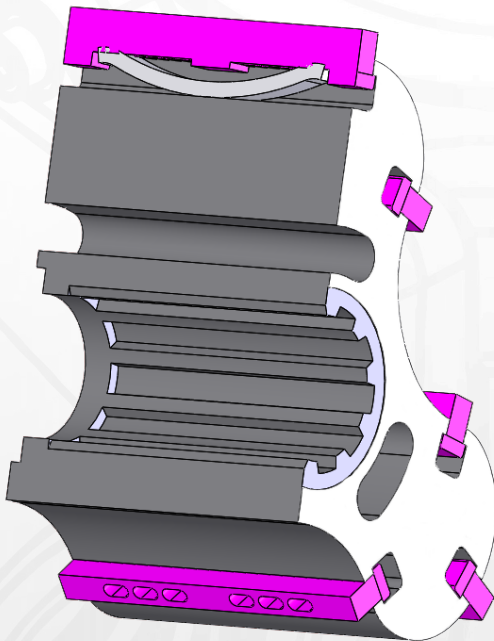
DIXON PUMPS



The Dixon Pumps Tri-Lobe impeller technology is the power behind every pump and pumping system we make.

The patented “wiper blade” vanes and Tri-lobe impeller design provide flow and vacuum performance like no other positive displacement pump in the market.

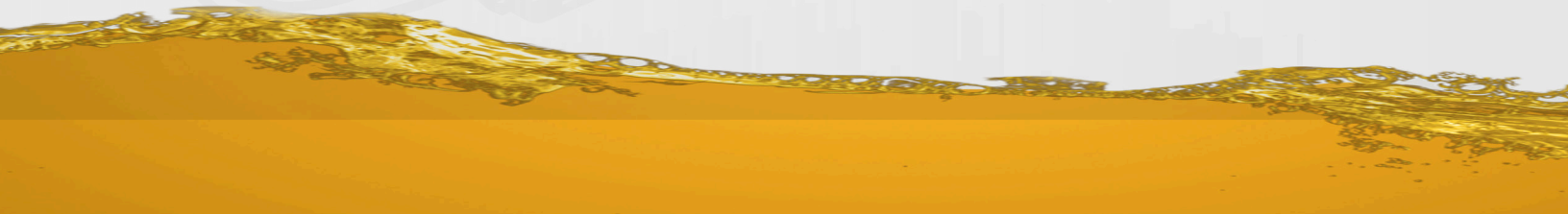
The Tri-lobe impeller configuration was designed to minimize harmonic resonance, which can cause destructive vibration. This allows for a wide range of pump shaft speeds, from 0 to 1,400 rpm, without damaging the pump, and out-performing competitive pumps that have shaft speed limitations.



Each vane is constructed of proprietary engineered resin, maintaining a tight seal against the pump housing and opposing impeller using an innovative spring mechanism constructed of the same material.

The Dixon Pumps proprietary engineered resin and innovative impeller/vane design are what drives the amazing performance of our pumps.

DIXON PUMPS





DRY-RUN DURABILITY

Our pump can run dry for over 20 days! That means longer product life-cycle and lower cost-of-ownership.

SUPERIOR FLOW RATES

Beats competitive PD pumps by as much as 200%! Off-Load/On-Load fluids faster....time is money!

DRY VACUUM

As much as 20 inches Hg - that's over 27 feet of water lift! This is why Dixon filtration and tank cleaning units filter and clean better and faster than competitive systems.

Bypass spring strength options – 20, 50, 75, and 100 psi

Bi-Directional Flow - Just reverse the bypass and shaft rotation. For operating in two directions using a VFD, add an external bypass for the reverse diection.

Tri-Lobe Impeller Design – engineered resin, high speed, 18 self-adjusting vanes

Full-Flow Bypass – Bypass flow path dimensions are similar to inlet-outlet dimensions, so there is less damage to shear-sensitive fluids when in bypass mode.

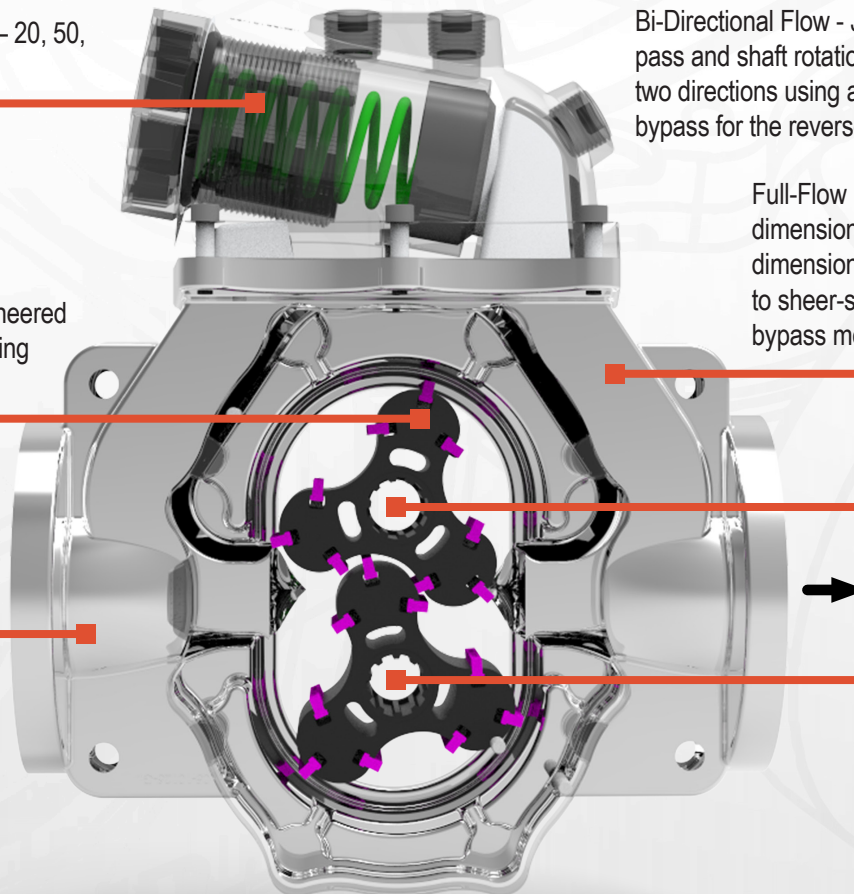
FORWARD FLOW →

Inlet/Outlet Port Design – smooth flow paths, minimal resistance

Top Shaft
Forward Flow Rotation: Clockwise

Bottom (Drive) Shaft
Forward Flow Rotation: Counter-Clockwise

Synchronized (geared) Shafts

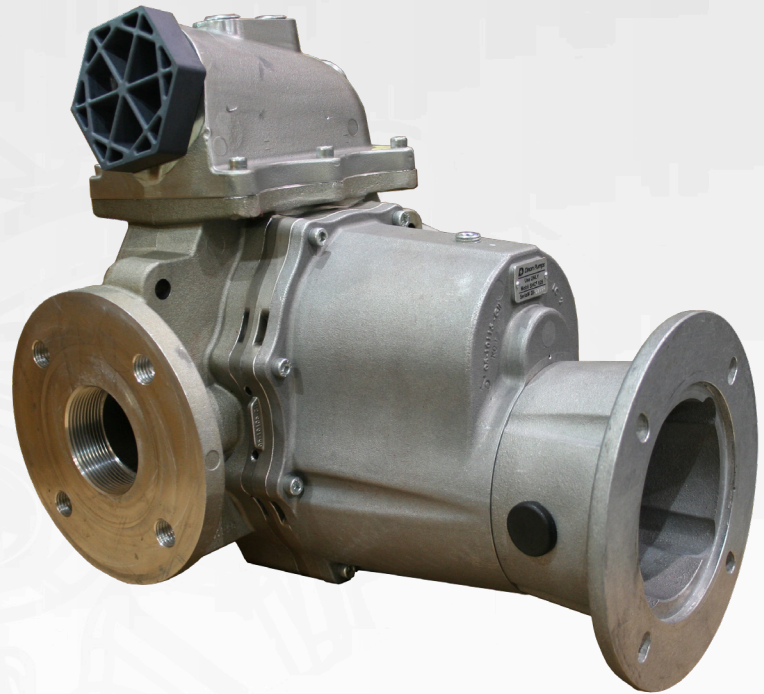




PUMP ENDS

Our pump is the most incredible positive displacement pump you have ever seen!

- » **Dry-Run capability** like no other PD pump in the market
- » **Vacuum lift performance** that lets you pull from deep below the pump
- » **Flow performance** that beats the competition...just speed it up
- » **Easily reversible** - just six bolts to change the by-pass



Our pump has been used in PTO and Hydraulic motor applications for years, primarily on truck-mounted systems where minimizing off-loading time is important. Unlike other pumps, our pump can take the higher revolutions that often occur on trucks when operators try to speed things up.

Dixon Pumps' unique pump ends can be used in many other applications where OEM customers want to create a system of their own, combining superior Dixon pump technology with their own products.

DIXON PUMPS

Pump Series	Pump Inlet/Outlet		Maximum Speed (Continuous)	Flow Rate (at 50 psi Diff. Press.)		Max Pressure			
						Differential Pressure		Working Pressure	
	Size	Type		RPM	GPM	LPM	PSI	BAR	PSI
1500 Series	1.5"	NPT	1,400	0 - 105	0 - 400	150	10.3	180	12.4
2000 Series				0 - 180	0 - 680				
		Operating Temperature		Viscosity Range		Max Particle Size	Material of Construction		
		°F/°C	°F/°C	cSt	SSU	micron	Housing	Impeller / Vanes	Seals
		-20 / -28	250 / 121	3,000	14,500	300	Aluminum	Engineered Resin	Viton / Buna

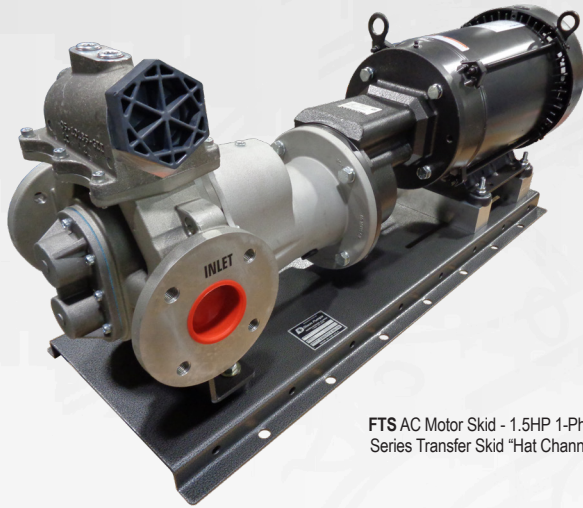
*Standard By-Pass Spring Options: 20, 50, 75, and 100 psi, External bypass required for pressures over 100 psi



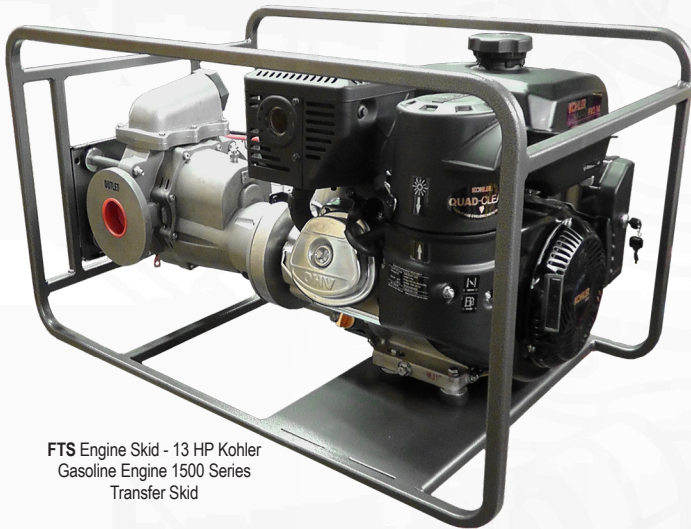
TRANSFER SKIDS

Our Transfer Pump Skids are tough, easily transportable, and ready to plug-and-play.

- » Includes Pump End, Gear Reducer, Motor or Engine
- » TEFC and Explosion-Proof Models
- » Self-Priming
- » Amazing Dry-Run Capability
- » Outstanding vacuum lift performance



FTS AC Motor Skid - 1.5HP 1-Phase 2000 Series Transfer Skid "Hat Channel" Model



FTS Engine Skid - 13 HP Kohler Gasoline Engine 1500 Series Transfer Skid

Electric Motor AC skids can be connected to a standard 115 wall socket, or hard-wired into more permanent applications.

For more remote operation where a 12 or 24 volt battery is available, our DC models provide lots of performance where there's no power grid nearby.

Our Engine-driven pump skids provide the ultimate performance in remote locations. Speed control on these units allows for a wide range of flows and the power capability of these units offers outstanding pressure performance.

Power Type	Pump Series	Power		Flow Rate (at 50 psi Diff. Press.)		Max Pressure			
						Standard Bypass		Max Bypass*	
		HP	KW	GPM	LPM	PSI	BAR	PSI	BAR
DC Motor	1500	1.0	0.75	55	205	20	1.4	20	1.4
AC Motor	1500 and 2000	1.5 - 10.0	1.1 - 7.5	20 - 115	76 - 435	20 - 100	1.4 - 6.9	150	10.3
AC Motor with VFD				10 - 180	38 - 680			150	10.3
Diesel Engine		9.4	7.0	10 - 150	38 - 570	50 - 100	3.4 - 6.9	120	8.3
Gasoline Engine		11.7 - 13.4	8.7 - 9.9	10 - 180	38 - 680			150	10.3
Hydraulic Motor		9.0	6.7					150	10.3
Air Motor		10.0 - 15.0	7.5 - 11.1	10 - 180	38 - 680				

*Standard By-Pass Spring Options: 20, 50, 75, and 100 psi, External bypass required for pressures over 100 psi



TRANSFER DOLLY

Our Pump Transfer Mobile units let you easily transport a high-performance pumping system to remote and difficult-access locations.

They are also a great solution when there is a need for a highly mobile pumping station.

- » General bulk fuel and oil transfer
- » Railroad - locomotive refueling
- » Large construction equipment refueling
- » Custody transfer



FTS Dolly - 35 GPM - With LC Meter - Mechanical Register



FTS Dolly - 35 GPM

INCLUDES

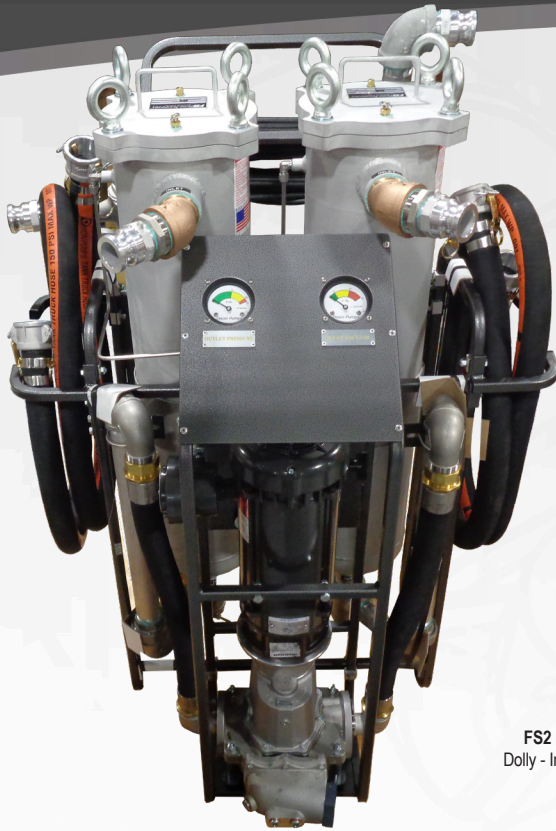
- » Self-Priming Dixon Pumps Tri-Lobe Pump End
- » Grove Gear Reducer
- » Explosion Proof or TEFC Marathon Motor with on/off switch
- » Protective Powder-Coated Frame
- » 10 ft. Suction Hose
- » 10 Ft. Discharge Hose
- » 3 Ft. Suction Drop-Pipe
- » 1.5 inch Manual Discharge Nozzle
- » 50 ft. of power cord
- » Catch tank and drip tubes to keep your work area clean
- » OPTIONAL: Custody transfer meters

DIXON PUMPS

Power Type	Pump Series	Power		Flow Rate (at 50 psi Diff. Press.)		Max Pressure			
						Standard Bypass		Max Bypass*	
		HP	kW	GPM	LPM	PSI	BAR	PSI	BAR
AC Motor - EP*	1500	1.5 - 3.0	1.1 - 2.2	27 - 63	102 - 238	20 - 50	1.4 - 3.4	100	6.9
AC Motor - Non-EP	1500	1.5 - 3.0	1.1 - 2.2	27 - 63	102 - 238	20 - 50	1.4 - 3.4	100	6.9

* EP: Explosion-Proof

*Standard By-Pass Spring Options: 20, 50, 75, and 100 psi, External bypass required for pressures over 100 psi



FILTRATION DOLLY

Fuel and lube quality is critical for dependable operation and maintenance of construction and mining equipment, large trucks, buses, and other vehicles.

The amazing pressure and vacuum performance of the Dixon Pumps Tri-lobe impeller pump design provides optimum filtration and polishing of fuels and lubes. New coalescing and water separation capability gets the water out fast and efficiently!

FS2 Mobile Filtration - 35 GPM - 2-Wheel Dolly - Inlet: Bag Filter, Outlet: Coalescing/Water Separation/Cartridge Filter



INCLUDES

- » Inlet Bag Filter Housing
- » Outlet Coalescing/Water Separation/Particulate Filter Housing
- » Self-Priming Dixon Pumps Tri-Lobe Pump End
- » Grove Gear Reducer
- » Explosion Proof or TEFC Marathon Motor with on/off switch and 50 ft. of power cord
- » Protective Powder-Coated Frame
- » 10 ft. Suction Hose & 10 Ft. Discharge Hose
- » 3 Ft. Suction Drop-Pipe
- » 1.5 inch Manual Discharge Nozzle
- » Catch tank and drip tubes to keep the work area clean

Power Type	Pump Series	Power		Flow Rate (at 50 psi Diff. Press.)		Max Pressure			
						Standard Bypass		Max Bypass	
		HP	kW	GPM	LPM	PSI	BAR	PSI	BAR
AC Motor - EP*	1500	1.5	1.1	35	132	50	1.4	50	3.4
AC Motor - Non-EP	1500	1.5	1.1	35	132	50	1.4	50	3.4

* EP: Explosion-Proof

DIXON PUMPS



TANK CLEANING DOLLY

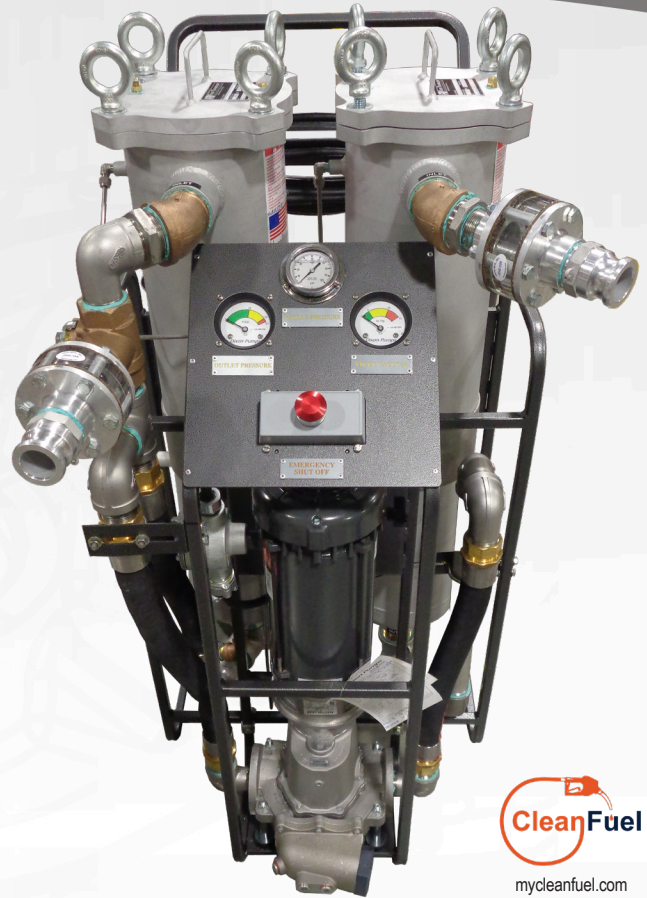
When storage tanks are affected by fuel additives or age, fuel quality suffers, and the best way to address the problem is to clean out debris, sludge, and grime from the floor and walls of the tank.

Our Tank Cleaning Unit (TCU) can be transported easily, can be moved around quickly from tank to tank, and can get into tight places.

Applications include storage tanks for rental facilities, fleet service centers, filling stations, and emergency gen-sets.

INCLUDES

- » Inlet Bag Filter Housing
- » Outlet Coalescing/Water Separation/Cartridge Filter Housing
- » Self-Priming Dixon Pumps Tri-Lobe Pump End
- » Grove Gear Reducer
- » Explosion Proof Marathon Motor with On/Off Switch
- » Heavy-Duty Powder-Coated Frame
- » 10 ft. of 1.5" Suction Hose with Camlok Fittings
- » 10 ft. of 1.5" Outlet Hose with Camlok Fittings
- » 7 ft. Debris Suction Drop-Pipe
- » 7 ft. Fluid Suction Drop Pipe with 2" Bung
- » 1.5" 90 Manual Nozzle
- » 50 ft. of Power Cord
- » Sold Separately: Gamma Jet Assembly with 2" Bung



TCU Series - Tank Cleaning Unit



With enhanced coalescing and water separation features, the TCU provides a mobile platform for dealing with water in fuel, one of the most damaging challenges for a Fuel Quality Management program. Removing damaging water helps control microbial growth in tanks. The two-stage 8" aluminum housing uses a 6"x18" coalescer filter and 7" water separator solution for meeting engine manufacturer's purity standards.

Power Type	Pump Series	Power		Flow Rate (at 50 psi Diff. Press.)		Max Pressure			
						Standard Bypass		Max Bypass	
		HP	KW	GPM	LPM	PSI	BAR	PSI	BAR
AC Motor - EP*	1500	1.5	1.1	35	132	50	1.4	50	3.4
AC Motor - Non-EP	1500	1.5	1.1	35	132	50	1.4	50	3.4

* EP: Explosion-Proof



MULTI-COMPONENT PUMPING SYSTEMS

When our customers are looking for something just right for their application, they turn to Dixon Pumps for multi-component transfer and filtration systems that can do what others can't.

With our Tri-lobe impeller technology driving each system we build, there is no limit to the possibilities when it comes to creating a valuable pumping system designed for our customers' applications.

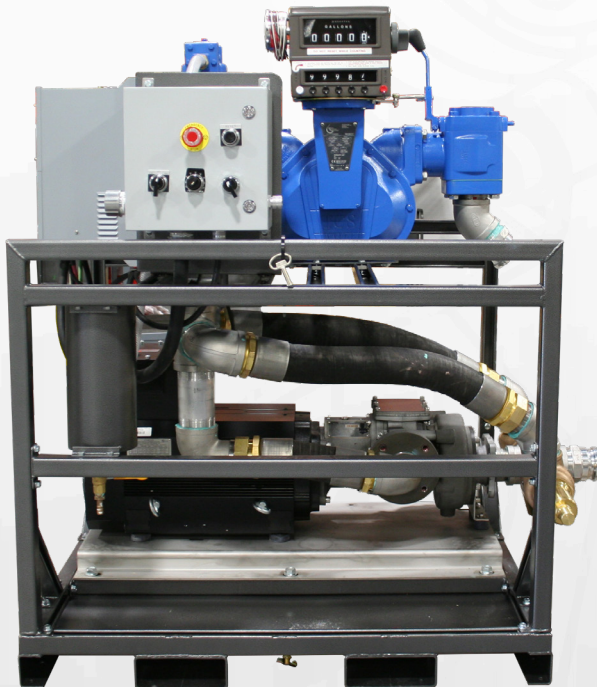
- » Dixon Pumps Tri-lobe Pump End
- » Multiple power options: Electric, Gas, Diesel, Air, Hydraulic
- » Variable Frequency Drives offering a range of flow rates
- » Standard or Custody Transfer Meters with printers and presets
- » Stationary or mobile configurations



FTS4640 Transfer Unit - 10 to 175 GPM - Stationary with Hose Reel and Electronic Custody Transfer Metering

OTHER OPTIONS:

- » Electronics and Controls (Simple Speed and Reversing Controls, Remote Control, Communications, Constant Pressure)
- » Hose Length Options
- » Hose Management Systems (e.g. Reels, Racks)



FTS4640 Transfer Unit - 20 to 280 GPM - Stationary with Variable Speed Control and Custody Transfer Metering



FTS4630 Transfer Unit - 10 to 175 GPM - Mobile with Variable Speed Control and Custody Transfer Metering

DIXON PUMPS



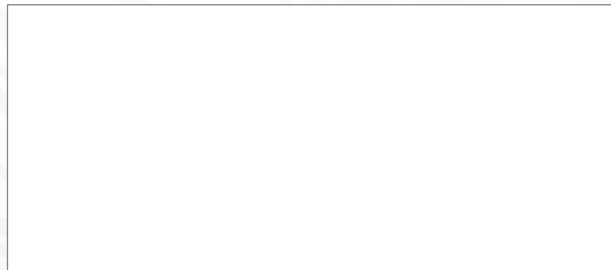
DIXON PUMPS

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DIXON PUMPS

SHAW  **DEVELOPMENT**

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