

# 750 SERIES

Multi-Blasters® Up To 750 HP  
Pressures from 4,300 PSI - 20,000 PSI  
Flows from 51 - 274 GPM

**GD**  
GARDNER DENVER  
WATER JETTING  
SYSTEMS, INC.

## High Horsepower, High Flow Water Jetting



*This Model 760VSDS Multi-Blaster is fully equipped with a TGX-600HB triplex pump, clutched 7-speed power transmission that allows the operator to vary pressures from 6500 to 20,000 PSI, diesel engine, dual bag filtration, dual suction accumulators and a 300-gallon fuel tank with gauge.*



Gardner Denver Water Jetting Systems, Inc. has over 40 years of experience in designing and manufacturing water-jetting equipment with one goal in mind—to give our customers a rugged, dependable machine. By combining the exceptional efficiency of the Partek® TGX-600 pump with a correctly-sized power unit and drive train, Gardner Denver has created a perfectly-engineered system that will provide more useable energy than any other water-jetting product on the market.

Whether you choose the single or variable speed model, each Multi-Blaster® 750 Series unit includes Gardner Denver's Partek® TGX-600 pump with two fluid end options, diesel engine, fuel tank, pump filtration, pump instrumentation, and safety relief systems.

*The Gardner Denver 750 Series Multi-Blasters are perfectly suited for automated systems whether the unit is for plant installation or trailer mounted for easy transport. Its higher horse power allows you to get high flows even at higher pressures. The Model 750 is being used above with our Concrete Renovation Robot (CRR). The 750 Series also offers a reliable pump design that facilitates easy maintenance in the field. Fluid ends are configured to permit rapid removal of packing and plungers from the rear of the stuffing box cradle.*



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## TGX-600S/HB PUMP

The Partek TGX-600S/HB pump consists of the power end and a fluid end. The power end, consisting of crankshaft, connecting rods and crossheads transmits power from the pump driver which may be diesel or electric motor to the fluid

end. Utilizing plungers and valves, the fluid end converts inlet water to a high pressure stream. Two standard fluid ends are offered for the TGX-600S/HB; the Sectionalized "L" (TGX-600S) for pressures to 10,000 PSI and the Inline (TGX-600HB) for 20,000 PSI.

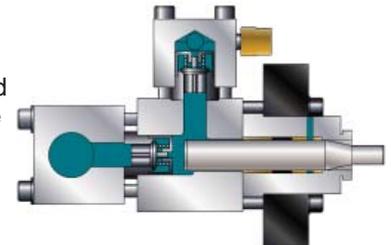
### Fluid End

All of the Partek fluid ends share several features to significantly improve the pump's life, performance and maintainability.

- ◆ All high pressure components are constructed of special high strength stainless steel to eliminate corrosion and maximize strength.
- ◆ Suction manifolds are manufactured from aircraft grade aluminum with stainless steel valve disc inserts to reduce wear. Complete stainless steel manifolds are available for salt water service.
- ◆ "L" style fluid cylinders and Inline style stuffing boxes and valve seats are autofrettaged to provide maximum strength and reliability.
- ◆ Partek fluid ends are designed to insure highest possible volumetric efficiencies, allowing the pump to operate at slower, life extending speeds.
- ◆ Plungers are non threaded, collet style for positive alignment and easy and rapid removal and replacement.
- ◆ Plungers and packing are lubricated and cooled by water. Unlike messy oil or grease systems, water lubrication is environmentally safe, inexpensive and requires minimal maintenance.
- ◆ Partek's APC (advanced polymer composite) packing systems utilize space age materials to deliver long, even wear.
- ◆ Partek fluid ends are configured to permit rapid removal of packing and plungers from the rear of the stuffing box through the pump cradle.
- ◆ Valve seats utilize o-rings to facilitate sealing, reducing high internal stresses caused by traditional tapered valve seats.
- ◆ Packing loading is automatic by an internal spring, eliminating gland nut adjustments as on other pumps.

### Sectionalized "L" Operation to 10,000 PSI (TGX-600S)

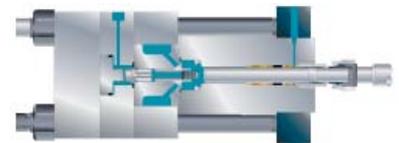
The Sectionalized "L" fluid end is clearly the water jetting industry's standard of excellence. Sectionalized design reduces replacement costs and facilitates maintenance. This simple design allows you to easily remove valves, plungers and packing one section at a time for fast, efficient field maintenance. Plungers are colmonoy coated stainless steel which, unlike fragile ceramic styles, are not affected by thermal shock.



The Sectionalized "L" has unique suction and discharge valves designed to handle "dirty" water with little wear to the seats. Inexpensive replaceable inserts extend valve life. Both suction and discharge ports are flanged to facilitate use of different threads.

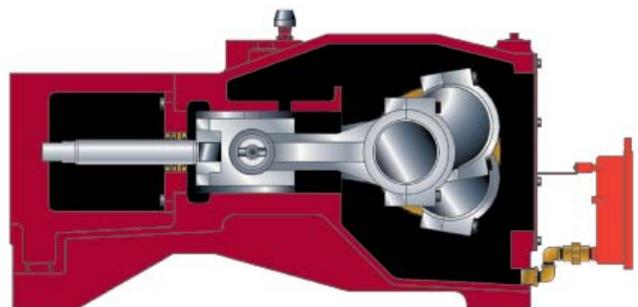
### Inline Operation from 10,000 to 20,000 PSI (TGX-600HB)

Horizontal "in line" suction and discharge valves and seats eliminate intersecting bores which can lead to premature fluid end failures at pressures above 15,000 PSI. Plungers are solid polished tungsten carbide resulting in exceedingly long plunger and packing life. Patented fluid end stud extenders provide rails for supporting fluid end components during maintenance, thereby eliminating the need for hoisting mechanisms. Gardner Denver Water Jetting offers a unique reconditioning service for valves and seats which adds hundreds of hours of life while reducing operating costs.



### Power End

- ◆ Extra-heavy, steel crankshaft, tapered roller bearings and large cylindrical crossheads assure accurate alignment and long life.
- ◆ All components run in a heavy, precision machined cast iron frame.
- ◆ High-capacity, forced oil system through rifle-drilled crank shaft for thorough lubrication even at low RPMs.
- ◆ Triple-lip baffle seals and splash deflectors avert power end oil contamination.
- ◆ Equipped with oil level sight gauge.
- ◆ Maximum frame load is 200,000 lbs.



# UNIT PACKAGE

## Diesel Power

- ◆ Fuel filters, dip stick, oil drain and other service points are conveniently located.
- ◆ Large, convenient engine-mounted instrument panel includes key ignition, throttle control, low oil pressure and high water temperature shut down for maximum engine protection.
- ◆ Engine is equipped with front and rear cowling and a hood for added protection.
- ◆ 300 gallon fuel tank.
- ◆ A three-plate 14" clutched PTO installed between the engine and pump drive permits independent operation of the engine. Sealed pilot bearing eliminates frequent lubrication requirements.

## Electric Power

The Multi-Blaster 750 Series can also be equipped with an electric motor (700 HP). Motors come in TEFC, explosion proof or open drip enclosures with a variety of voltages. Starters are also available.

## Drive System

The Multi-Blaster 750 Series uses an oversized, heavy duty shaft-mounted gearbox for longer life. The Multi-Blaster 750VS is equipped with a five-speed heavy duty transmission. This provides five distinct pump speeds without changing plungers or fluid ends (see page one for ranges).

- ◆ Clutch is engaged or disengaged via foot pedal for maximum operator convenience.
- ◆ Power is transmitted to the pump through a short-coupled drive shaft, which provides low vibration operation, reduces maintenance, and is tolerant of misalignment.

## Discharge Plumbing

- ◆ Gardner Denver Water Jetting Systems offers a wide variety of adapters to accommodate most applications.
- ◆ Pressure gauge is stainless-steel, glycerine-filled with an internal snubber to extend gauge life.
- ◆ The Inline fluid end includes dual rupture discs for redundant over pressure protection.
- ◆ Standard "L" fluid ends are equipped with stainless steel relief valve and rupture disc assembly.

## Suction Plumbing

- ◆ Suction piping is corrosion-resistant and includes a Y-strainer.
- ◆ Bladder style pulsation dampener minimizes potential for cavitation.

## Base

The Multi-Blaster 750 Series base is constructed of heavy 10-inch steel channel.

- ◆ Rigid skid design allows unit to be lifted and moved without causing drive misalignment.
- ◆ The entire footprint of the engine and pump are welded directly to structural members providing an extremely strong, low vibration design.
- ◆ The skid surface is quarter-inch thick steel floor plate to create a safer, non-slip work surface and to enhance the structural integrity of the skid.
- ◆ Fork-lift slots are standard.

# OPTIONAL FEATURES

**Water Tank.** A 300-gallon stainless-steel tank is available.

**Suction Dampener.** Optional bladder style pulsation dampener minimizes potential for cavitation.

**Trailer Mounting.** Trailers have four wheels per 10,000-pound tandem axle with heavy-duty tongue, fenders, and adjustable height hitch. Trailer units have correct center of gravity for safe highway towing. Trailers have an oversized jack to facilitate vehicle connection. Brakes are mounted on all four wheels and can be either electric or pneumatic.

**Engine Throttle Control.** Engine is at idle RPM with gun(s) in dump mode. RPM climbs to preset level when gun trigger is depressed.

**Hoses, Rack & Fittings.** Hoses are available in standard 50' (15.2m) sections with a minimum burst of 2.5 times the working pressure. Hose rack made of tubular steel with 150' capacity. Stainless steel quick connect couplers are available for 10,000, 15,000 or 20,000 PSI working pressure. Other lengths available upon request.

**Lifting Eyes and/or Bail.**

**Whisperized® Enclosure.** Allows you to use the unit in areas that have noise restrictions. Sound-attenuating enclosure covers the engine.

**Filtration.** Over-sized stainless steel filter delivers clean water to the pump to increase plunger, valve and packing life. 50 micron filtration is standard for 10,000 PSI; 10 micron is standard for 20,000 PSI.

**Safety Shutdowns.** When power-end oil level falls below proper level or inlet water pressure drops below a safe level.



*The Multi-Blaster 750 Series whisperizing cabinet allows access for ease of service from any angle.*

# 750 SERIES

## CUSTOMIZATION

Over the years, customers of Gardner Denver Water Jetting Systems have requested some very specific modifications for our Multi-Blaster water jetting units. From top mounted motors to extra-large water tanks, Gardner Denver Water Jetting Systems is able to build the unit that meets your exact specifications.

Custom systems and options are available. Please contact your Gardner Denver sales representative or authorized dealer for details. Gardner Denver Water Jetting Systems, Inc. offers a complete line of accessories for surface preparation, tube cleaning, jet cutting and other applications. Please call or write for a free catalog today.

## Quality Parts, Reasonable Costs

Gardner Denver Water Jetting Systems, Inc. parts are designed and manufactured to fit perfectly and to last. Because every part we design is manufactured by Gardner Denver, each part is inspected to meet our demanding quality standards before it goes into a product or inventory. And with thousands of units in service, parts are manufactured in high volumes to keep your costs low.



The Multi-Blaster 750 Series unit shown trailer-mounted with an available noise reducing enclosure.

	UNIT		PRESSURE		FLOW		PUMP			
	Model	PSI	Bar	GPM	LPM	Model				
Model 660VSD Diesel	660-10VS	3,300-10,000	228-690	274-100	1041-379	<b>TGX-600S</b>				
	660-20VS	6,500-20,000	448-1379	139-51	528-193	<b>TGX-600HB</b>				
Weights/Dims.	UNIT		HEIGHT		WIDTH		LENGTH		WEIGHT	
	Model	In.	mm	In.	mm	In.	mm	Lbs.	Kg	
	Diesel Trans. Skid	100	2540	96	2438	290	7366	20,000	9072	

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### NOTES:

- Consult factory for other plunger options.
- Flow rates based on 100% volumetric efficiency; ratings may vary according to engine/motor speed.
- Actual brake horsepower required varies and is dependent on pressure rating, displacement, fluid compressibility and both mechanical and volumetric efficiency.

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