

# 300 SERIES

Multi-Blasters® Up To 300 HP  
Pressures from 4,000 PSI - 40,000 PSI  
Flows from 6 to 60 GPM

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

## Versatile High Pressure Water Jetting



*This 170DT is fully equipped with an air compressor and tank, a water tank, pump filtration and a hose rack. At 170 HP, the Partek TY-375UH triplex pump pushes 6 GPM at 40,000 PSI.*

Gardner Denver Water Jetting Systems, Inc. offers the most complete line of high-pressure water jetting units in the industry with more choices to solve your cleaning problems. Gardner Denver designs and manufactures water-jetting equipment with one goal in mind: to give our customers a cost-effective, rugged, dependable machine. By combining the exceptional efficiency of the Partek® TY-375 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 150, 170, 200, 250 or 300 HP model, each Multi-Blaster® 300 Series unit includes a Partek® TY-375 pump with three fluid end options, diesel engine or electric motor, belt drive system, pump filtration, fuel tank (for diesel units), unit instrumentation and safety relief systems.

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## TY-375S/HC/UH PUMP

The TY-375 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 (either diesel or electric) to the fluid end. Three standard fluid ends are offered for the TY-375; the standard "S" for pressures from 4,000 to 15,000 PSI, the "HC" for pressures from 10,000 to 20,000 PSI and the UH for pressures up to 40,000 PSI.

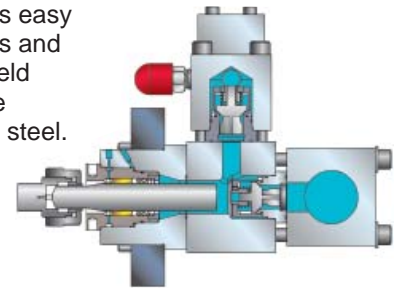
### Fluid End

All of Gardner Denver's 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. Stainless steel is 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 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.

### Standard "S" Operation to 15,000 PSI (TY-375S)

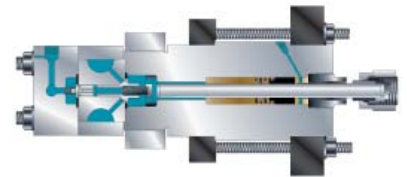
This simple design features easy removal of valves, plungers and packing for fast, efficient field maintenance. Plungers are colmony coated stainless steel. Valves are of the inserted type suitable for "dirty water".



### Inline Operation from 10,000 to 40,000 PSI (TY-375HC/UH)

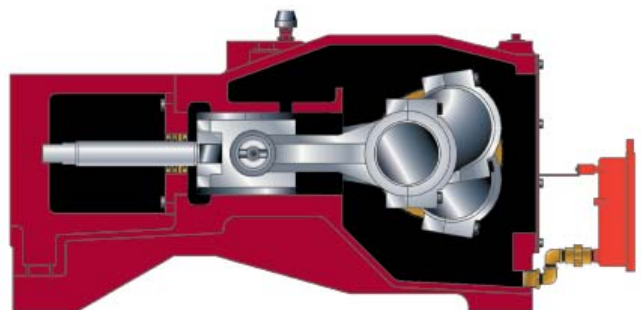
Horizontal, "in line" suction and discharge valves and seats eliminate intersecting bores which can lead to premature fluid end failures at pressures above 15,000 PSI.

Gardner Denver Water Jetting offers a unique reconditioning service for valves and seats which adds hundreds of hours of life while reducing operating costs. Plungers are solid polished tungsten carbide resulting in exceedingly long plunger and packing life.



### 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, gravity splash oil system provides even, thorough lubrication.
- ◆ Double-lip baffle seals and splash deflectors avert power end oil contamination.
- ◆ Equipped with oil level sight gauge.



## 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, vernier 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.
- ◆ 100 gallon fuel tank.
- ◆ An 11" or 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 300 Series can also be equipped with an electric motor. Motors are available in TEFC, explosion proof or open drip enclosures with a variety of voltages and starting options.

### Drive System

The Multi-Blaster 300 Series uses a fully enclosed v-belt drive system that is conservatively rated. It is tolerant of minor 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.

### Base

The Multi-Blaster 300 Series base is constructed of heavy 8-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 on skid units only.

## OPTIONAL FEATURES

**Water Tank.** An 80-gallon stainless-steel tank is available.

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

**Trailer Mounting.** 300 Series units have four-wheel, 6,000-pound tandem axles with heavy-duty tongue, fenders, and hitch with interchangeable couplers to enable towing by almost any truck. Trailer units are safe for highway towing and have an oversized jack for easy vehicle connection. Brakes can be either electric or hydraulic surge.

**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, and 1 micron is standard for 40,000 PSI.

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

## 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.



*A compact skid mounted Multi-Blaster 150ES unit with a 150 HP electric motor and a TY-375S Partek pump capable of 60 GPM flow rate at 4,000 PSI.*



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**NOTES:**

Flow rates based on 100% volumetric efficiency; rates may vary according to pump speed.

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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.

	UNIT		PRESSURE		FLOW		PUMP
	Model		PSI	Bar	GPM	LPM	Model
Model 150E Electric	150-08	8,000	552		31.6	119.6	TY-375S
	150-10	10,000	689		23.2	87.8	TY-375HC
	150-15	15,000	1034		16.1	60.9	TY-375HC
	150-20	20,000	1379		12.5	47.3	TY-375HC
	150-40	40,000	2758		6.4	24.2	TY-375UH
Model 170D Diesel	170-08	8,000	552		31.9	120.7	TY-375S
	170-10	10,000	689		23.4	88.6	TY-375HC
	170-15	15,000	1034		16.3	61.7	TY-375HC
	170-20	20,000	1379		12.6	47.7	TY-375HC
	170-40	40,000	2758		6.4	24.2	TY-375UH
Model 200E Electric	200-08	8,000	552		41.7	157.8	TY-375S
	200-10	10,000	689		30.6	115.8	TY-375HC
	200-15	15,000	1034		21.3	80.6	TY-375HC
	200-20	20,000	1379		16.5	62.4	TY-375HC
	200-40	40,000	2758		8.4	31.8	TY-375UH
Model 225D Diesel	225-08	8,000	552		41.8	158.2	TY-375S
	225-10	10,000	689		30.7	116.2	TY-375HC
	225-15	15,000	1034		21.3	80.6	TY-375HC
	225-20	20,000	1379		16.6	62.8	TY-375HC
	225-40	40,000	2758		8.4	31.8	TY-375UH
Model 250E Electric	250-08	8,000	552		52.1	197.2	TY-375S
	250-10	10,000	689		38.3	144.9	TY-375HC
	250-15	15,000	1034		26.6	100.7	TY-375HC
	250-20	20,000	1379		20.7	78.3	TY-375HC
	250-40	40,000	2758		10.5	39.7	TY-375UH
Model 260D Diesel	260-08	8,000	552		52.0	196.8	TY-375S
	260-10	10,000	689		38.2	144.6	TY-375HC
	260-15	15,000	1034		26.5	100.3	TY-375HC
	260-20	20,000	1379		20.6	77.9	TY-375HC
	260-40	40,000	2758		10.5	39.7	TY-375UH
Model 300E Electric	300-08	8,000	552		59.1	223.7	TY-375S
	300-10	10,000	689		43.4	164.2	TY-375HC
	300-15	15,000	1034		30.1	113.9	TY-375HC
	300-20	20,000	1379		23.4	88.6	TY-375HC
	300-40	40,000	2758		11.9	45.0	TY-375UH
Model 325D Diesel	325-08	8,000	552		60.3	228.2	TY-375S
	325-10	10,000	689		44.3	167.7	TY-375HC
	325-15	15,000	1034		30.8	116.6	TY-375HC
	325-20	20,000	1379		23.9	90.5	TY-375HC
	325-40	40,000	2758		12.2	46.2	TY-375UH

	UNIT		HEIGHT		WIDTH		LENGTH		WEIGHT	
	Model		In.	mm	In.	mm	In.	mm	Lbs.	Kg
Approximate Weights & Dimensions	Diesel Skid		82	2083	67	1702	146	3708	8,500	3856
	Diesel Trailer		102	2591	91.25	2318	205.25	5213	9,800	4445
	Electric Skid		57	1448	67	1702	118	2997	7,000	3175
	Electric Trailer		82	2083	91.25	2318	166	4216	8,300	3765

GARDNER DENVER WATER JETTING SYSTEMS, INC.  
12300 North Houston Rosslyn Road  
Houston, TX 77086

Your local distributor/representative is:



GARDNER DENVER WATER JETTING SYSTEMS, INC.

Partek • Liqua-Blaster • CRS Power Flow • Jetting Systems • American Water Blaster

1-800-231-3628 ♦ 281-448-5800 ♦ Fax: 281-448-7500

www.waterjetting.com ♦ E-mail: mktg.wjs@gardnerdenver.com