100 SERIES

Liqua-Blasters® Up To 100 HP

Pressures from 8,000 PSI - 20,000 PSI
Flows from 18.4 - 6.5 GPM

GARDNER DENVER
WATER JETTING SYSTEMS INC.

Affordable High Pressure Water Jetting



This 110DT features a diesel engine, a 60 gallon water tank, and a T-300M pump capable of 12 GPM at 10,000 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 to give our customers a cost-effective, rugged, dependable machine. By combining the exceptional efficiency of the Partek® T-300 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 75 HP or 100 HP model, each Liqua-Blaster® 100 Series unit includes Partek's T-300 pump with two fluid end options, diesel engine or electric motor, v-belt drive system, pump filtration, with fuel tank and unit instrumentation, and safety relief systems.

100 SERIES THE MOST VERSATILE AND

T-300M/H PUMP

The T-300 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. Two standard fluid ends are offered for the T-300; the standard "M" for pressures from 8,000 to 15,000 PSI and the "H" for pressures from 15,000 to 20,000 PSI.

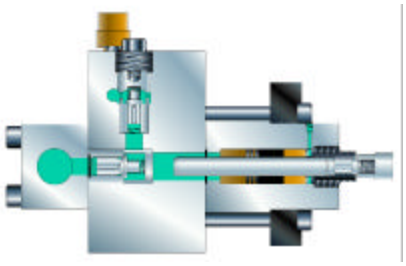
Fluid End

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'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.

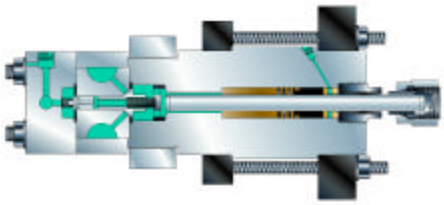
Standard "L" Operation to 15,000 PSI (T-300M)

With thousands in service, the "L" fluid end is clearly the water jetting industry's standard of excellence. This simple design features easy removal of valves, plungers and packing for fast, efficient field maintenance. Plungers are colmonoy coated stainless steel, which, unlike fragile ceramic styles, are not affected by thermal shock.



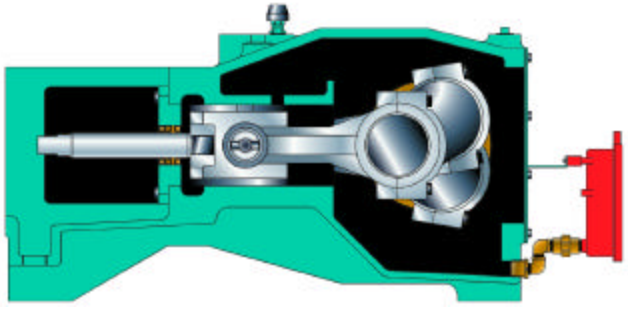
Inline Operation from 15,000-20,000 PSI (T-300H)

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 Systems 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.



RELIABLE WATER-JETTING UNITS AVAILABLE.

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.
- 30 gallon fuel tank.
- A single-plate 11" 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 Liqua-Blaster 100 Series can also be equipped with an electric motor. The Model 100 utilizes a 75 HP motor, while the 100X model utilizes a 100 HP motor. Motors are available in TEFC, explosion proof or open drip enclosures with a variety of voltages and starting options.

Drive System

The Liqua-Blaster 100 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 external 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 Liqua-Blaster 100 Series base is constructed of heavy 5-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. A 60-gallon stainless-steel tank is available allowing the use of salt water and the introduction of detergents.

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

Trailer Mounting. 100 Series have 2 wheel trailers; 100X Series have four-wheel, 3,500-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.

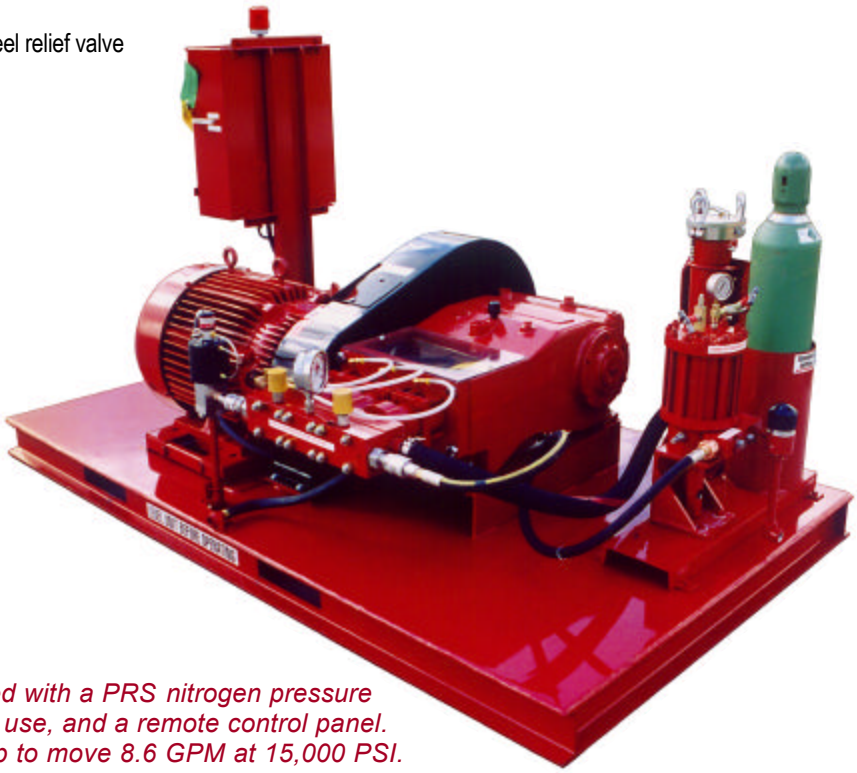
Hoses, Rack & Fittings. Hoses are available in 50' (15.2m) sections with a minimum burst of 2.5 times the working pressure.Hose rack made of tubular steel with 150' capacity. Stainless steel quick connect couplers are available for 10,000, 15,000 or 20,000 PSI working pressure.

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 Shutdown. When power-end oil level falls below proper level.



This 115ES is equipped with a PRS nitrogen pressure regulator for multi-gun use, and a remote control panel. It uses a T-300H pump to move 8.6 GPM at 15,000 PSI.

100 SERIES

CUSTOMIZATION

Over the years, customers of Gardner Denver Water Jetting Systems have requested some very specific modifications for our Liqua-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.

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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		PLUNGER		PUMP
	Model	PSI	Bar	GPM	LPM	In.	mm	Model
Model 100D Diesel 75 HP (56 kW)	108D	8,000	552	14.2	54.0	0.945	24	T-300M
	110D	10,000	690	12.2	46.3	0.875	22	T-300M
	115D	15,000	1034	9.0	34.0	0.750	19	T-300M/H
	120D	20,000	1379	6.7	25.5	0.650	17	T-300H
Model 100E: Electric 75 HP (56 kW)	108E	8,000	552	13.7	51.8	0.945	24	T-300M
	110E	10,000	690	11.7	44.4	0.875	22	T-300M
	115E	15,000	1034	8.6	32.6	0.750	19	T-300M/H
	120E	20,000	1379	6.5	24.5	0.650	17	T-300H
Model 100DX: Diesel 100 HP (75 kW)	108DX	8,000	552	18.4	69.8	1.000	25	T-300M
	110DX	10,000	690	16.5	62.3	0.945	24	T-300M
	115DX	15,000	1034	10.4	39.3	0.750	19	T-300M/H
	120DX	20,000	1379	7.8	29.5	0.650	17	T-300H
Model 100EX: Electric 100 HP (75 kW)	108EX	8,000	552	17.7	67.0	1.000	25	T-300M
	110EX	10,000	690	15.8	59.9	0.945	24	T-300M
	115EX	15,000	1034	9.9	37.7	0.750	19	T-300M/H
	120EX	20,000	1379	7.5	28.3	0.650	17	T-300H

100 & 100X Approximate Weights & Dimensions	UNIT	HEIGHT		WIDTH		LENGTH		WEIGHT	
	Model	In.	mm	In.	mm	In.	mm	Lbs.	Kg
	Diesel Skid	60	1524	60	1524	104	2642	3650	1656
	Diesel Trailer	80	2032	84	2134	140	3556	4320	1960
	Electric Skid	38	965	60	1524	104	2642	3200	1452
	Electric Trailer	57	1448	84	2134	140	3556	3720	1687

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

GARDNER DENVER WATER JETTING SYSTEMS, INC.
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Houston, TX 77086 USA

Your local distributor/representative is: