HYDROSTATIC TEST UNITS

Pressures to 40,000 PSI

Diesel and Electric Units Designed Especially for Production Testing.

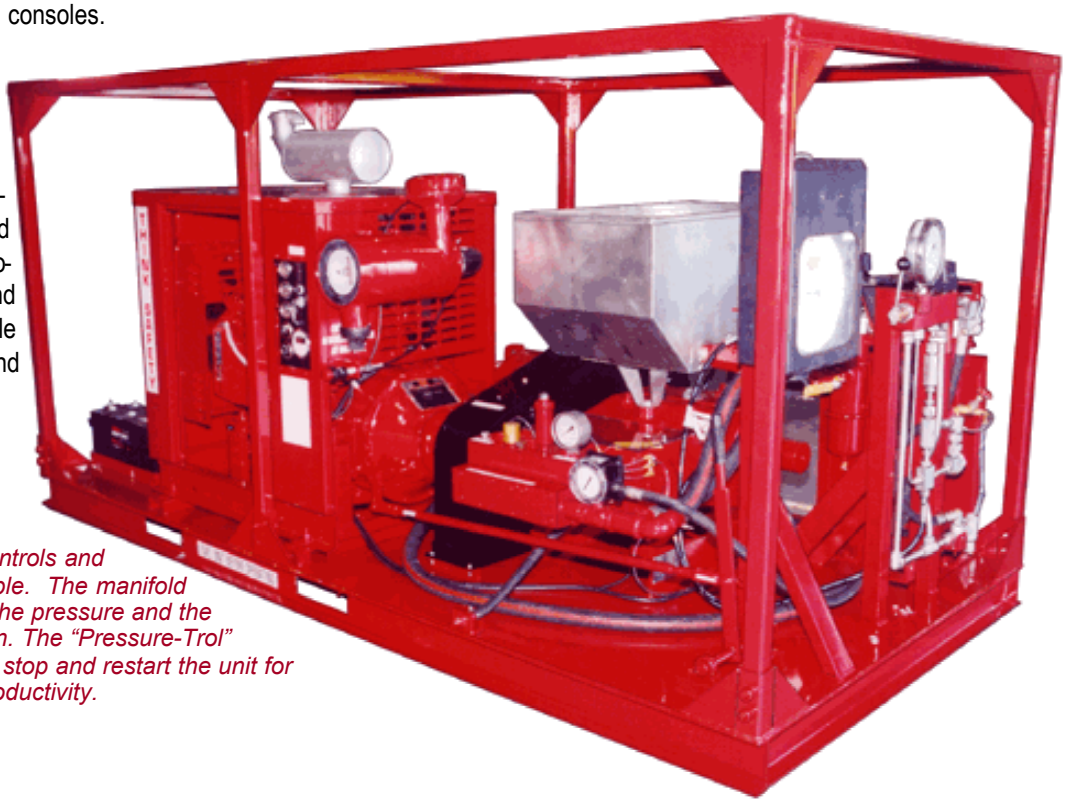
Gardner Denver Water Jetting Systems, Inc. engineers its Hydrostatic Testing Units specifically for oilfield and pipeyard pipe testing at pressures of up to 40,000 PSI in continuous operation. The Gardner Denver Water Jetting Systems Hydrostatic Testing Units are known for their efficiency world wide. Only one operator is required to conduct a complete hydrostatic evaluation to test the strength and integrity of drill and production pipe, casing or tubing.

Both the diesel and electric Hydrostatic Testing Units are designed for optimum portablility, and may be trailer or skid mounted. A special feature of these units is their exclusive "Pressure-Trol" system which allows the operator to regulate testing pressure and bleed-off with two centrally mounted levers without having to "clutch" the engine. All engine gauges and start/stop controls are conveniently located on centralized control consoles.

Advantages

- Possible testing rate of 450 pipes a day.
- Built for continuous daily duty.
- Increase in production with simple-to-operate system.
- Reduction boxes and electric clutches eliminated.
- Repetitious motor and pump start/stop eliminated.
- "Pressure-Trol" rated 40,000 PSI working pressure.
- "Pressure-Trol" high pressure connections rated 60,000 PSI autoclave.
- Field replaceable pump parts reduce downtime.

Both the electric and diesel Units' continuous testing capabilities depend upon the rugged Partek Triplex Pump. Partek pumps components are fabricated from precipitation hardened stainless steel to maximize corrosion resistance. Pump valve and valve seats are field replaceable in 30 minutes with ordinary hand tools.



A typical skid-mounted diesel Hydrostatic Testing Unit. All controls and instruments are easily accessible. The manifold has two levers: one regulates the pressure and the other bleeds the pressure down. The "Pressure-Trol" console eliminates the need to stop and restart the unit for each test, which maximizes productivity.

GARDNER DENVER WATER JETTING SYSTEMS, INC.

Partek • Liqua-Blaster • Geoquip • CRS Power Flow • Jetting Systems • American Waterblaster

800-231-3628 • 281-448-5800 • Fax 281-448-7500

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HYDROSTATIC UNITS VERSATILE, RELIABI

Every component of the Liqua-Blaster Hydrostatic Testing Units is designed with a specific customer benefit. Below is detailed information on other unit components.

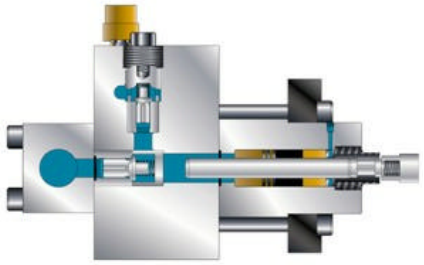
T-300M/H PUMP

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 "L" for pressures from 8,000 to 15,000 PSI and the inline (T-300H) for pressures from 15,000 to 20,000 PSI. For 40,000 PSI the TF-375UH pump is utilized.

Fluid End

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

- All high pressure wetted components are constructed of special high strength stainless steel to eliminate corrosion and maximize strength.
- Suction manifolds are manufactured from aircraft grade aluminum to facilitate field service. Stainless steel is available for salt water service.
- Standard "L" style fluid cylinders and inline style stuffing boxes and valve seats are *autofrettaged* to provide maximum strength and reliability. (Autofrettaging is a unique process that utilizes ultrahigh pressure to significantly increase component life.)
- Partek fluid end designs are characterized by minimal internal clearances to insure highest possible volumetric efficiency. High volumetric efficiency allows the pump to operate at slower, life extending speeds.
- Plungers are non threaded, collet style for positive alignment and rapid removal.
- 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 and spring loading 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.

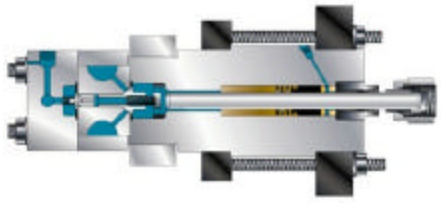


Standard "L" Operation to 15,000 PSI

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 to 40,000 PSI

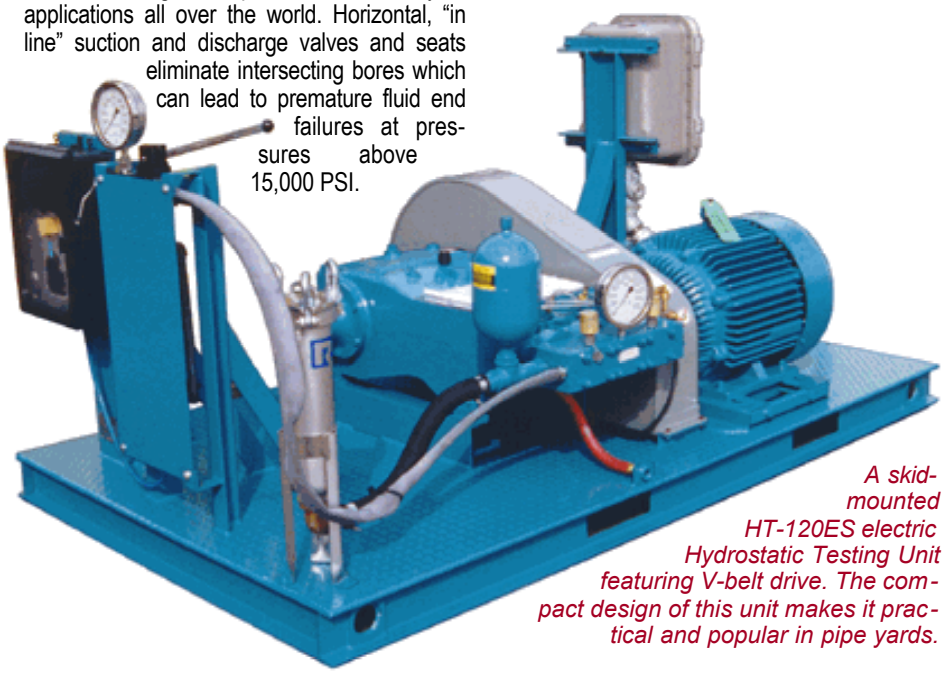
Since its introduction in 1982, the Partek inline fluid end design has performed flawlessly in applications all over the world. Horizontal, "in line" suction and discharge valves and seats eliminate intersecting bores which can lead to premature fluid end failures at pressures above 15,000 PSI.



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 sight gauge and safety system to shut down the unit if power end oil falls below or exceeds optimum operating level.



A skid-mounted HT-120ES electric Hydrostatic Testing Unit featuring V-belt drive. The compact design of this unit makes it practical and popular in pipe yards.

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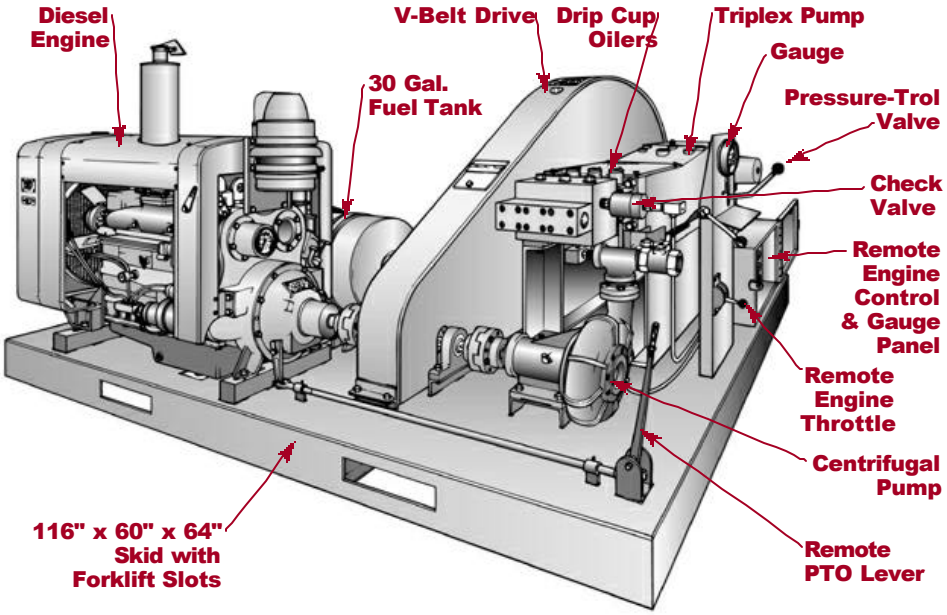
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APPLICATION-BASED UNITS.

DIESEL UNIT

Standard Equipment

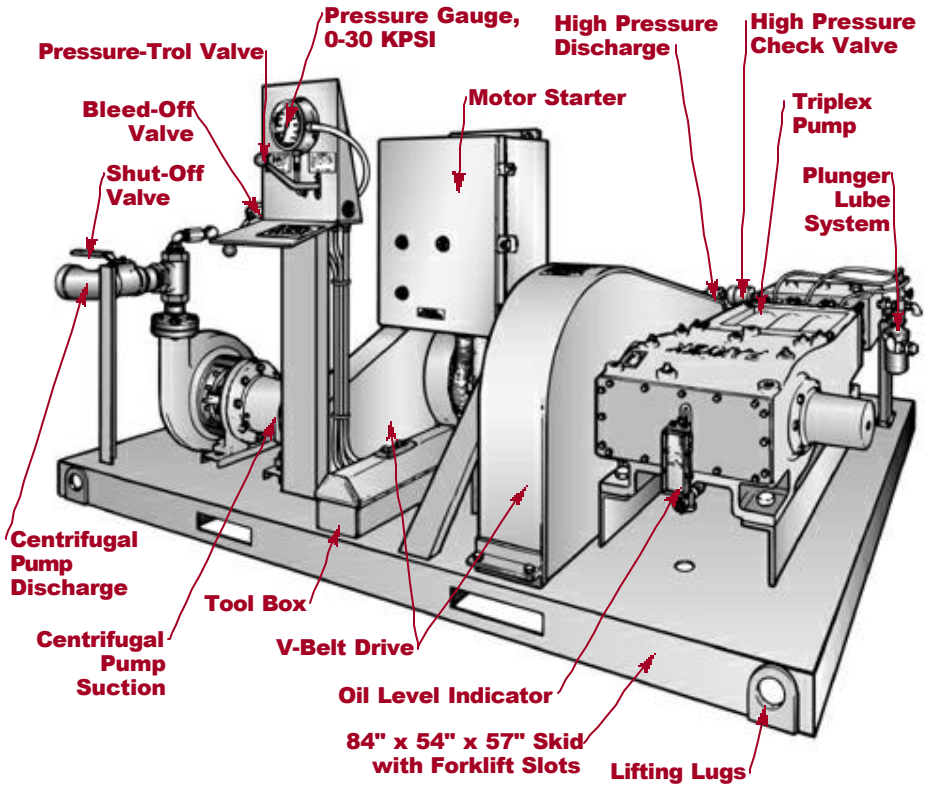
- Skid or trailer mounted available.
- Partek T-300 pump - direct drive.
- Diesel engine.
- High temperature / low oil pressure safety shut-down system.
- "Pressure-Trol" pressure control and pressure bleed-off system.
- 30-gallon gauged fuel tank.
- 12-volt heavy-duty battery.
- Rupture disc.



ELECTRIC UNIT

Standard Equipment

- Skid or trailer mounted available.
- Partek T-300 pump - direct drive.
- 50 HP TEFC 480 VAC heavy-duty electric motor.
- "Pressure-Trol" pressure control and pressure bleed-off system.
- Oil drip lube system (plungers).
- V-belt drive system.
- Rupture disc.



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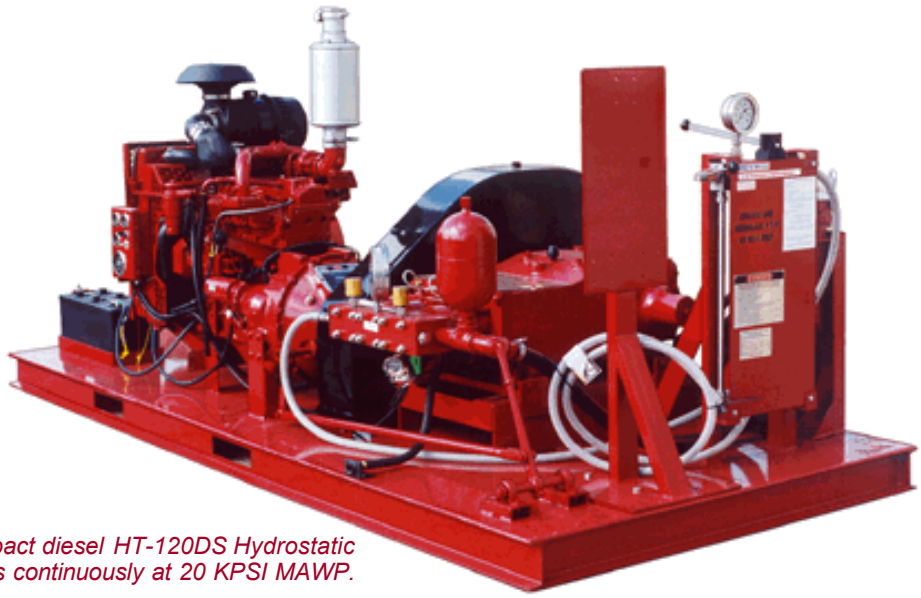
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HYDROSTATIC UNITS

Options

- Remote engine control panel with start/stop and gauges.
- Remote P.T.O. lever.
- Remote engine throttle control.
- Oil drip lube system (plungers).
- 0-60,000 PSI safety trip gauge.
- 15' and 25' suction and discharge "C" pump hoses with foot valve.
- 25' long high-pressure pump discharge hose (64,000 PSI burst pressure).
- Tool box.
- Pressure recorders.
- Water filter assembly.



This compact diesel HT-120DS Hydrostatic Tester works continuously at 20 KPSI MAWP.

Over the years, customers of Gardner Denver Water Jetting Systems have requested some very specific modifications for the Partek 100 Series Liqua-Blasters. 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.

For information about our custom options like roll cages, lifting bails, pressurized water tanks, and special mounted trailers, please call our professional sales staff at (800) 231-3628 or e-mail us at mktg.wjs@gardnerdenver.com. If calling from outside the United States, dial (281) 448-5800.

100 & 100X Approximate Weights & Dimensions

UNIT	HEIGHT		WIDTH		LENGTH		WEIGHT	
Model	In.	mm	In.	mm	In.	mm	Lbs.	Kg
Diesel Skid	69	1753	54	1372	102	2591	3650	1656
Diesel Trailer	89	2261	78	1981	136	3654	4320	1960
Electric Skid	50	1270	54	1372	84	2134	3200	1687
Electric Trailer	69	1753	78	1981	118	2997	3720	1687

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.

GARDNER DENVER WATER JETTING SYSTEMS, INC.
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Your local distributor/representative is: