

TX-450SB



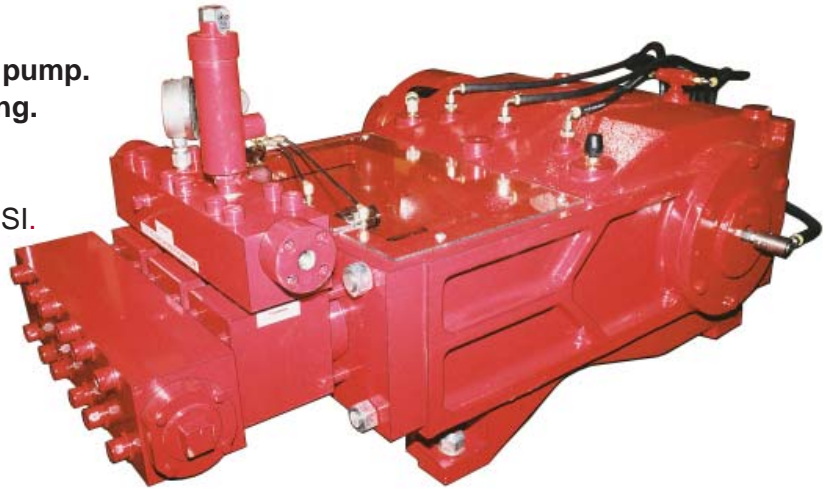
GARDNER DENVER
WATER JETTING
SYSTEMS, INC.

Pressures to 10,000 PSI
Flows to 105.6 GPM ♦ Power to 450 HP

Fast & Affordable Convertibility

Features:

- ♦ Pressure/flow convertibility from well of pump. Does not require unbolting and retorquing.
- ♦ No valve change required.
- ♦ Inline fluid end design.
- ♦ Pressure range from 7,000 PSI to 10,000 PSI.
- ♦ Flow rates from 27 to 105.6 GPM.
- ♦ Maximum frame load of 30,000 Lbs. / 13608 Kg. for multi-speed, and 25,000 Lbs. / 11340 Kg for single speed.
- ♦ Field proven design.
- ♦ Easy field maintenance.
- ♦ Stainless steel fluid end construction.
- ♦ High volumetric efficiency for maximum horsepower utilization.
- ♦ Rigorously subjected to full load testing.
- ♦ Manufactured on state-of-the-art machinery.
- ♦ Pump attached planetary gear reducer.



Applications:

- ♦ Water Blasting
- ♦ Concrete Demolition
- ♦ Hydrostatic Testing
- ♦ Water Disposal
- ♦ Industrial Process

Performance Specifications:

	PLUNGER DIA.	MAX. PRESSURE		FLOW					
		PSI	Bar	200 RPM		400 RPM		500 RPM	
				GPM	LPM	GPM	LPM	GPM	LPM
TX-450SB	1.750" - 44mm	10K	690	27.1	106.4	56.2	212.8	70.3	266.0
	1.875" - 48mm	8.8K	607	32.3	122.2	64.6	244.3	80.7	305.4
	2.000" - 51mm	7.8K	538	36.7	139.0	73.4	278.0	91.8	347.5
	2.125" - 54mm	6.8K	469	36.7	139.0	73.4	278.0	103.5	391.7
	2.250" - 57mm	6.1K	420	46.4	175.6	93.0	352.0	113.7	430.3

Note: All flows are based on 100% volumetric efficiency. Pressures shown are based on single-speed performance. See unit specification sheets for pressure ratings on multi-speed units.

Stroke: 4.5" / 114 mm • Max. Speed: 510 RPM • Weight: 4,658 lbs. / 2115 Kg

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

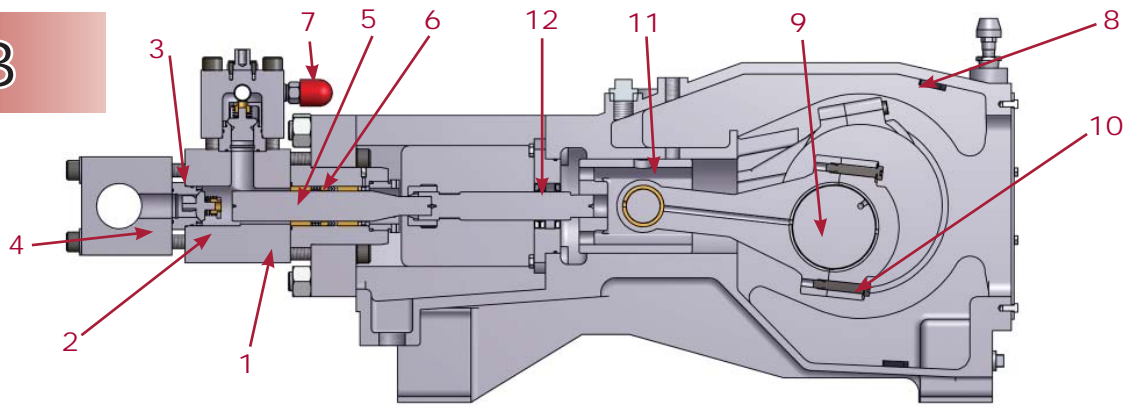
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TX-450SB



Fluid End

1. Stuffing Boxes: Three boxes machined from hardened stainless steel for extended life.
2. Suction Manifold: Hard, anodized aluminum. Also available in stainless for salt water applications.
3. Valve Assembly: Hardened stainless steel, autofret-taged for extended life. Valves are spring-loaded for positive closing with a common seat used for both suction and discharge valves.
4. Discharge Manifold: Manufactured from precipitation hardened stainless steel.
5. Plungers: Made of stainless steel with colmonoy coating.
6. Plunger Packing: Carbon filled Teflon™ and polyethylene base, spring-loaded, self-adjusting and easily replaceable from the rear of the stuffing box. Force-fed water provides lubrication and cooling.
7. Pressure Relief: Pressure safety head assembly (two rupture discs), mounted to the discharge manifold.

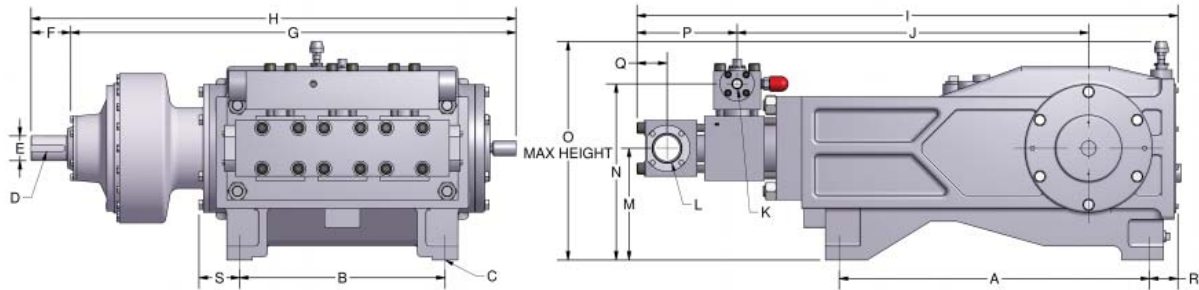
Power End

8. Power Frame: Manufactured from a single piece casting of high strength gray cast iron.
9. Crankshaft: Single extended steel with tapered roller bearings to minimize side thrust load.
10. Connecting Rods: Ductile iron with automotive type split insert bearings.
11. Crossheads: Large, piston type constructed of gray iron.
12. Diaphragm Seals: Installed with o-rings or gaskets and neoprene oil seals.

Reduction Gear: Constructed of top quality AGMA class 12 steel. Hardened and ground gears for strength and durability. Ratios available - 3.35:1, 4.20:1, 4.636:1, 5.21:1.

Forced Oil Lubrication System: Unique pump feature that allows oil to be forced through a rifle-drilled crankshaft lubricating each journal, connecting rod bearings and wrist pin bearings.

Dimensions:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
In.	36 ¹ / ₄	24	1 ⁵ / ₁₆	3/4	2 ⁷ / ₈	4 ⁵ / ₈	52	56 ⁵ / ₈	63 ¹ / ₈	41 ¹ / ₈	1" NPT	3" NPT	13	20 ¹ / ₂	25 ⁷ / ₁₆	11 ³ / ₄	3 ¹ / ₂	3 ⁵ / ₁₆	4 ³ / ₄
mm	921	610	34	19	73	118	1321	1438	1603	1045			330	521	646	299	89	84	121

GARDNER DENVER WATER
JETTING SYSTEMS, INC.
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