

TX-450HC



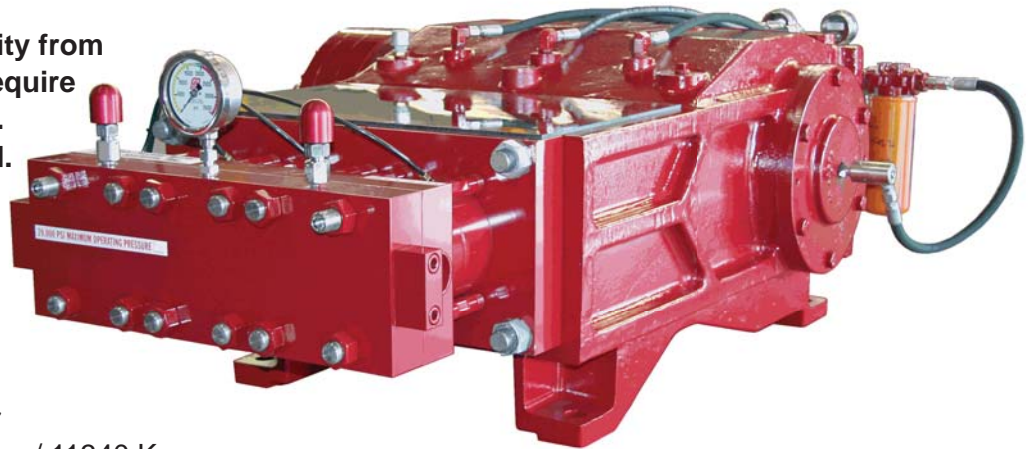
GARDNER DENVER
WATER JETTING
SYSTEMS, INC.

Pressures to 20,000 PSI
Flows to 54 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 14,000 PSI to 20,000 PSI.
- ♦ Flow rates from 15 GPM to 54 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.



Applications:

- ♦ Water Blasting
- ♦ Concrete Demolition
- ♦ Surface Preparation
- ♦ Hydrostatic Testing
- ♦ Water Disposal

Performance Specifications:

TX-450HC	PLUNGER DIA.	MAX. PRESSURE		FLOW					
		PSI	Bar	200 RPM		400 RPM		500 RPM	
				GPM	LPM	GPM	LPM	GPM	LPM
	1.250" - 32mm	20K	1379	15	56.7	29	109.8	36	136.2
	1.375" - 35mm	16.5K	1138	17	64.3	34	128.7	43	162.8
	1.500" - 38mm	14K	965	21	79.5	42	159.0	52	196.8

Note: Optional pump attached reduction gear.

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: 515 RPM • Weight: 4,658 lbs. / 2115 Kg

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

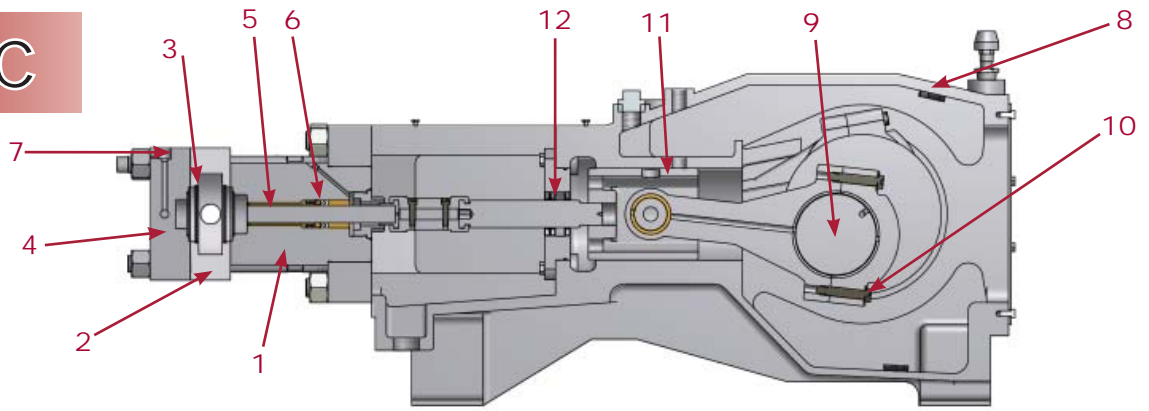
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TX-450HC



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, autofrettagged 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 solid tungsten carbide or 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.

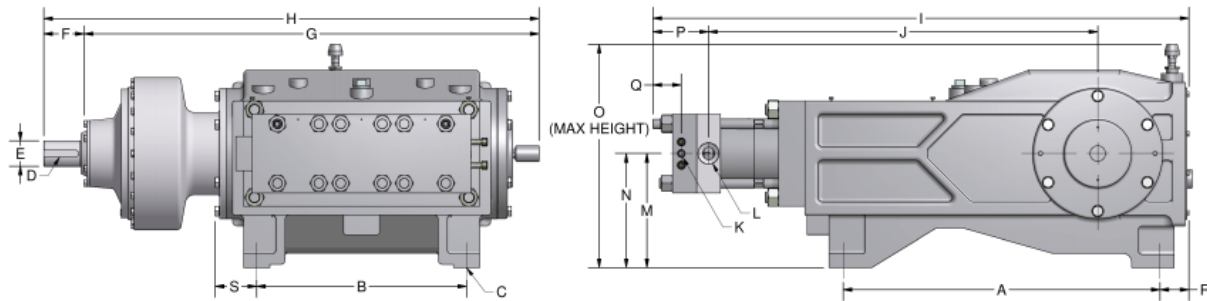
Power End

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	1	4 ¹ / ₄	7 ³ / ₄	40 ¹ / ₈	47 ⁷ / ₈	60	45	1" MP	2" NPT	12	12	23 ³ / ₈	7 ¹ / ₄	3 ¹ / ₂	2 ¹ / ₄	3 ³ / ₄
mm	921	610	34	25	108	197	1019	1216	1524	1143			305	305	594	184	89	57	96

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