TX-450HB

Pressures to 25,000 PSI
Flows to 43.4 GPM • Power to 450 HP

Features



- Inline fluid end design.
- Pressure range from 15,000 PSI to 25,000 PSI.
- Flow rates from 14.4 GPM to 43.4 GPM.
- Maximum frame load of 30,000 Lbs. / 13608 Kg for multi-speed, and 25,000 Lbs. / 11340 Kg for single speed.
- High volumetric efficiency for maximum horsepower utilization.
- Field proven design.
- Easy field maintenance.
- Stainless steel fluid end construction.
- Manufactured on state-of-the-art machinery.
- Rigorously subjected to full load testing.

Applications

- Water Blasting
- Concrete Demolition
- Chemical Injection
- Hydrostatic Testing
- Boiler Feeding
- Process Water Disposal

Performance Specifications

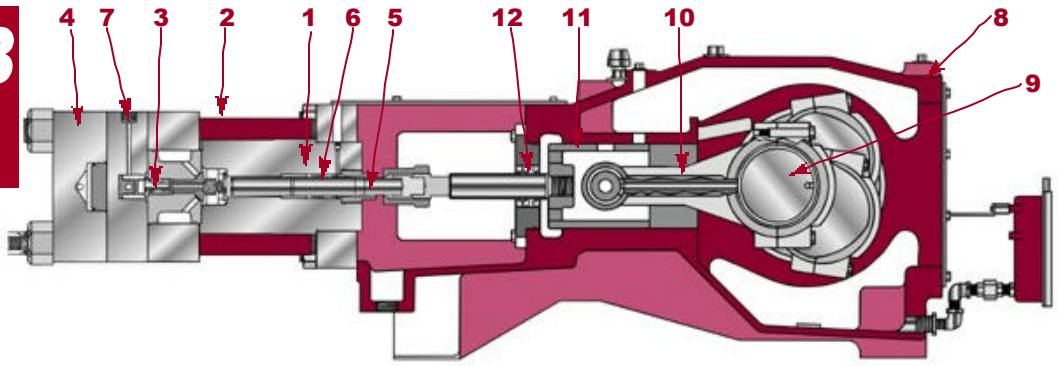
		MAX. PRESSURE		FLOW							
				200 RPM		300 RPM		400 RPM		500 RPM	
	PLUNGER DIA.	PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
TX-450HB	1.2500” - 32mm	25K	1724	14.4	54.3	21.5	81.5	28.6	108.3	n/a	n/a
	1.2500” - 32mm	20K	1379	14.4	54.3	21.5	81.5	32.3	122.2	35.8	136
	1.3750” - 35mm	15K	1034	17.4	65.7	26.1	98.7	39.1	147.8	43.4	164.3

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:** 520 RPM • **Weight:** 4,658 Lbs. / 2115 Kg

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
www.waterjetting.com • mktg.wjs@gardnerdenver.com

TX-450HB PUMP



Fluid End

1. **Fluid Cylinder Body:** Three cylinders 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, autofrettaged 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:** Collet style, made of solid tungsten carbide.
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.

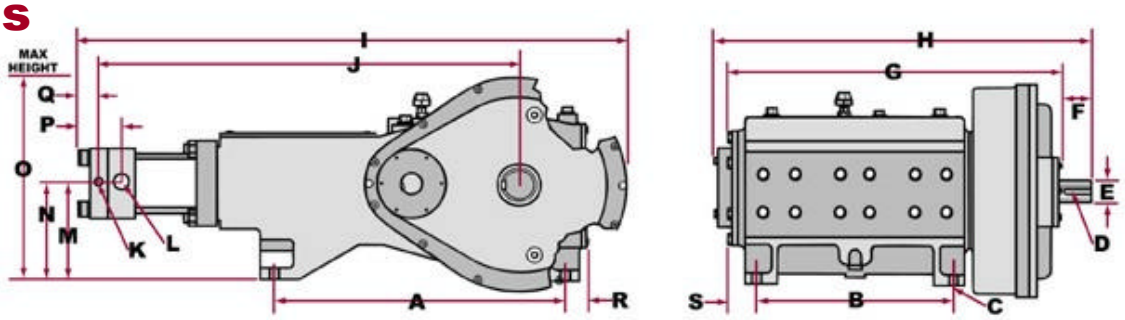
Power End

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 bull and pinion gears for strength and durability. Ratios available - 3.542:1, 4.143:1, 4.737:1.*

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 TX-450HB



	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 3/16	3/4	2 7/8	4	44 5/8	52 1/8	63 3/8	36 1/2	1MP	2NPT	12 3/4	12 3/4	31 1/8	6 1/4	2 3/4	3 3/8	2 1/4
mm	921	610	33	19	73	102	1133	1324	1610	927			324	324	791	159	70	86	57

Gardner Denver Water Jetting Systems reserves the right to change specifications without notice.

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

Your local distributor/representative is: