

# TF-450HC



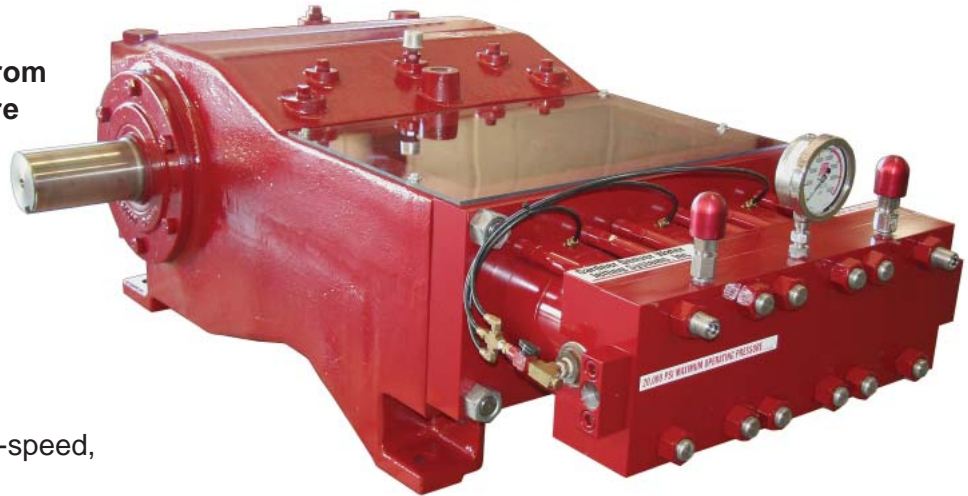
**GARDNER DENVER**  
WATER JETTING  
SYSTEMS, INC.

Pressures to 20,000 PSI  
Flows to 54 GPM ♦ Power to 330 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 10,000 PSI to 20,000 PSI.
- ♦ Flow rates from 10 GPM to 54 GPM.
- ♦ Maximum frame load of 20,750 Lbs. / 9420 Kg. for multi-speed, and 18,000 Lbs. / 8165 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:

	PLUNGER DIA.	MAX. PRESSURE		FLOW					
		PSI	Bar	200 RPM		400 RPM		500 RPM	
				GPM	LPM	GPM	LPM	GPM	LPM
TF-450HC	1.062" - 26mm	20K	1379	10	37.9	21	79.5	26	98.4
	1.250" - 32mm	15K	1034	14	53.0	29	109.8	36	136.2
	1.375" - 35mm	12K	827	17	64.3	34	128.7	43	162.8
	1.500" - 38mm	10K	689	21	79.5	42	159.0	52	196.8

Stroke: 4.5" / 114 mm • Max. Speed: 515 RPM • Weight: 2,600 lbs. / 1179 Kg

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

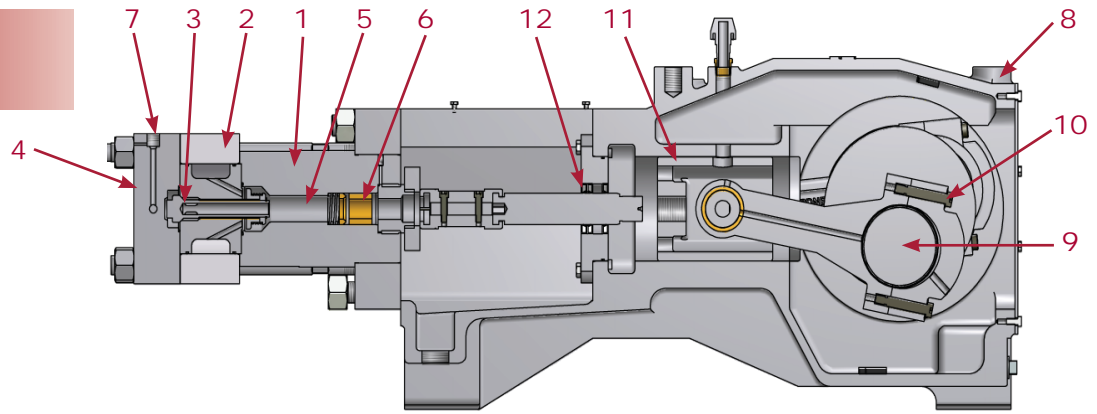
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## Fluid End

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, autofretaged 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.

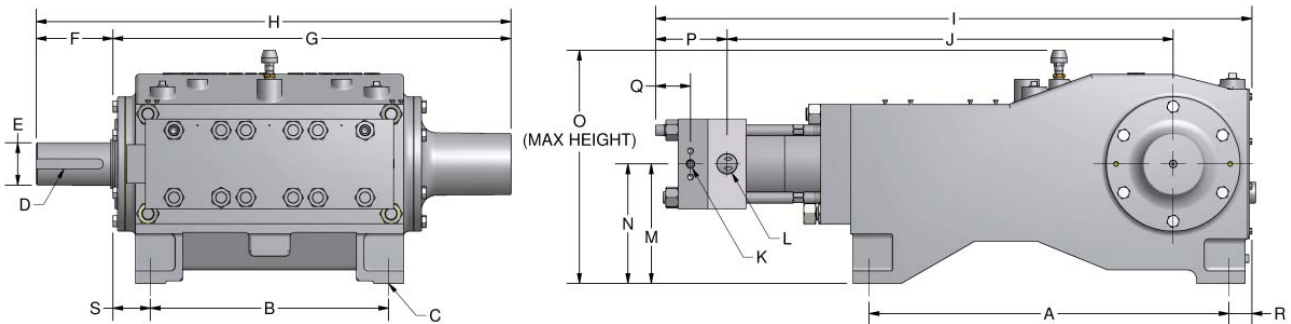
## Power End

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.

Utilizes a belt or poly-chain drive system.

Bearings and crossheads are oil lubricated with a combined splash gravity system that insures adequate circulation at speeds as low as 200 RPM.

## Dimensions:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
In.	36 <sup>1</sup> / <sub>4</sub>	24	1 <sup>5</sup> / <sub>16</sub>	1	4 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	40 <sup>1</sup> / <sub>8</sub>	47 <sup>7</sup> / <sub>8</sub>	60	45	1" MP	2" NPT	12	12	23 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>
mm	921	610	33	25	108	197	1019	1216	1524	1143			305	305	594	184	89	57

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