

High Pressure Triplex Plunger Pump

HW Series



2017

About Company



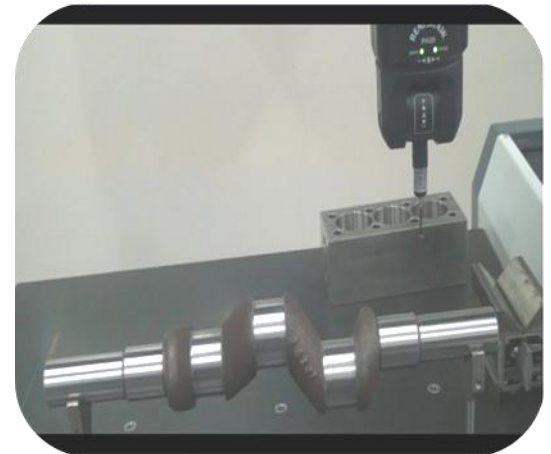
PressureJet Systems Pvt. Ltd. was established in 1996 in Ahmedabad, India. PressureJet (An ISO 9001:2008 certified company) is a leading manufacturer of high pressure, positive displacement, reciprocating triplex plunger pumps and relevant accessories. These pumps are most suitable for various applications like Water Jet Cleaning, Hydro test, Hydro jetting, Hydro blasting, Sewer jetting, Fire fighting & many more.

Today, PressureJet has a work force of more than 85 dedicated people. We have 11000 Sq. ft. area in Asia's premier industrial estate in Ahmedabad. Out of which, 5000 Sq. ft. area has been allocated for manufacturing activities.

Our Quality



All components are quality checked in the controlled environment of the Q. C. laboratory. We have the most modern measurement equipment such as 3D CMM (Coordinate Measuring Machine), surface roughness measurement Instrument, hardness tester etc. All components are tracked by barcode system with oracle ERP.



3D modelling is an important aid in designing the technical aspects of engineer's product.

Simulation can really help in making the correct design decisions during the development stage.

At PressureJet, we follow by using all necessary software.

Machine Shop



Our Ultra-modern machine shop enables us to manufacture an extremely wide range of components. We can be very flexible in our production planning, while maintaining a high standard of quality with fully automatic machining station. Computer controlled machining stations ensure constant dimensional accuracy.

Assembly & Testing



In this area, all components for the various pump units come together. Pumps and engine or motors are assembled on the skid frame, Accessories such as booster pump, Strainers, PRV, Safety Valve etc. are assembled.

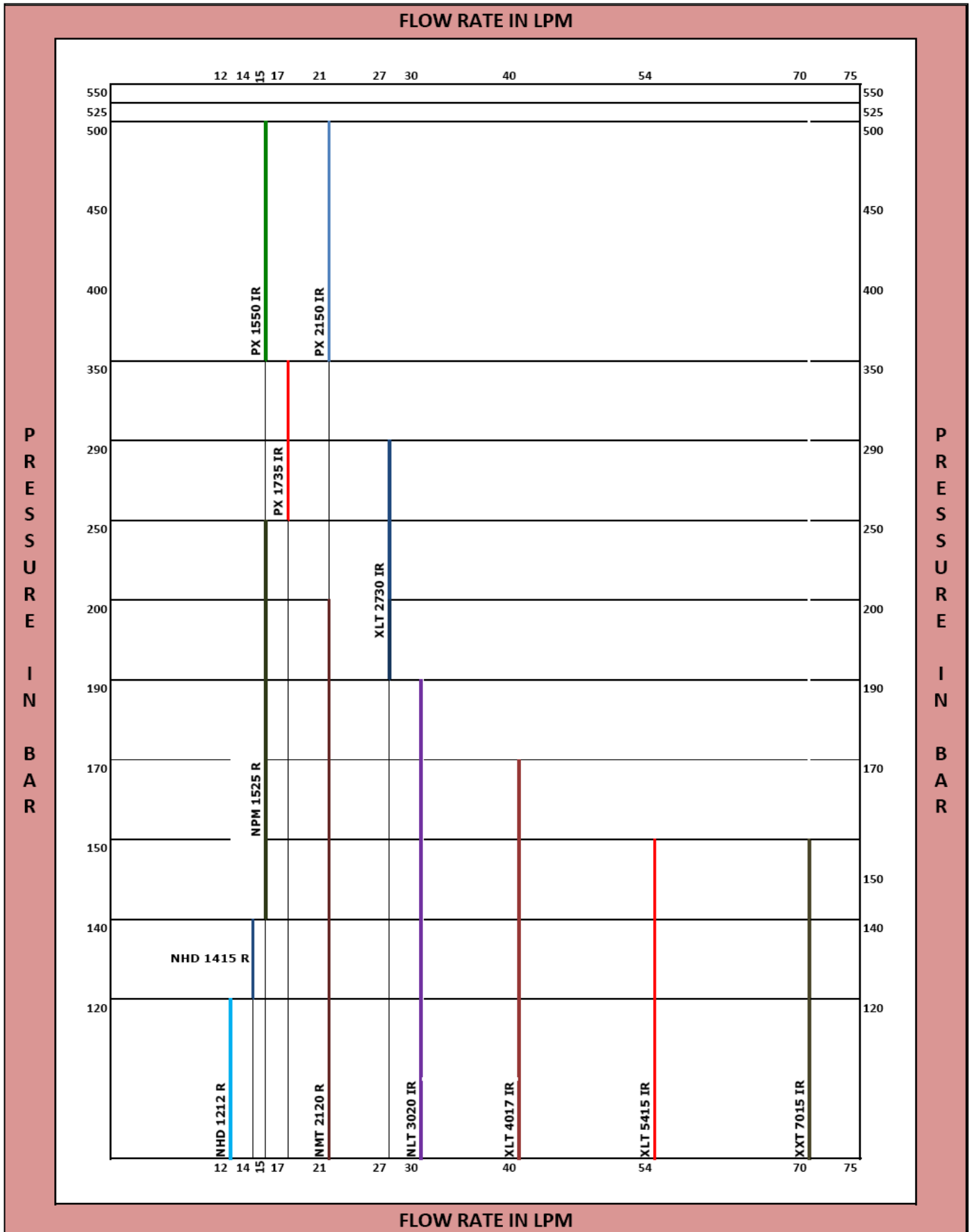
PressureJet products are subject to stringent quality control. All pumps are tested at maximum load prior to dispatch for decided time period. All measurement taken during the testing are electronically stored in computer through fully Automatic Test Bench and then it can be printed. Test report is always provided with the pump.

Store / Service



A product is only as good as the service backing it. We have a dedicated team of technicians available for 24 X 7. We keep majority of spares Ex-stock to reduce down time.

HW Series Model Selection Graph



HW Series Model Selection Chart

Pump model	Flow Rate (LPM)	Pressure (Bar)	Motor H.P.	RPM (50 Hz)	Inlet Connection (BSP)	Outlet Connection (BSP)	Working Fluid Temp. (°C)	Oil Capacity (Ltr)	Bare Pump Weight (Kg)	Bare Pump Dimension (LxWxH) in mm
NHD 1212 R	12	120	4	1450	1/2"	3/8"	60	0.4	6.6	250.5 x 213 x135
		90	3							
		60	2							
NHD 1415 R	14	140	5	1450	1/2"	3/8"	60	0.4	6.6	250.5 x 213 x135
NPM 1525 R	15	250	10	1450	1/2"	3/8"	60	0.7	9.5	273.5 x 238 x 144.5
		180	7.5							
NMT 2120 R	21	200	12.5	1450	1/2"	3/8"	60	0.7	9.5	273.5 x 238 x 144.5
		180	10							
		130	7.5							
		90	5							
NLT 3020 IR	30	190	15	1450	1/2"	3/8"	60	1.2	14.8	333 x 248 x 168.5
		155	12.5							
		125	10							
		90	7.5							
XLT 4017 IR	40	170	20	1450	3/4"	1/2"	60	1.2	17.2	341 x 263 x 168.2
		140	15							
		95	10							
		65	7.5							
XLT 5415 IR	54	150	25	1450	3/4"	1/2"	60	1.2	17.2	341 x 263 x 168.2
		130	20							
		100	15							
		70	10							
XXT 7015 IR	70	150	30	1450	1"	3/4"	60	1.2	18.4	344 x 263 x 168.2
		130	25							
		100	20							
		80	15							
		50	10							
PX 1550 IR	15	500	20	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
PX 1735 IR	17	350	15	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
PX 2150 IR	21	500	30	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
XLT 2730 IR	27	290	20	1450	3/4"	1/2"	60	1.2	17.2	341 x 263 x 168.2

NOTE :- All Pumps are suitable for 60Hz Motor also. At 60 Hz , Flow rate and required motor HP will be increase by 20 % approx.

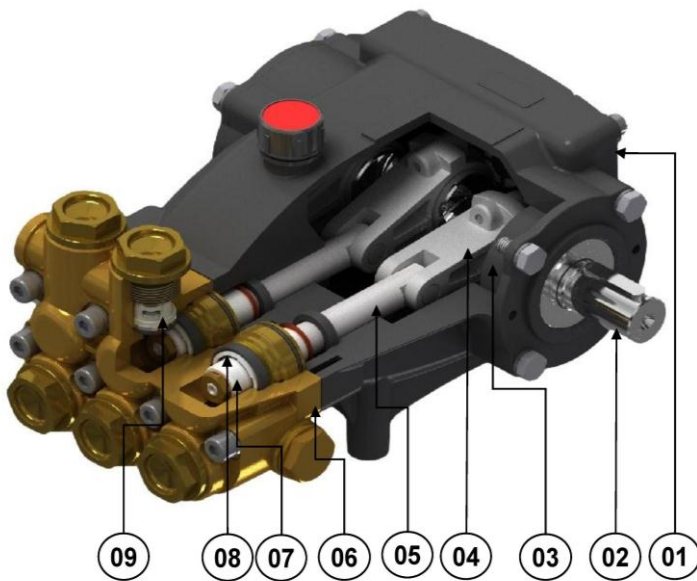
HW Series Bare Pump

➤ Silent Feature

- Field proven design.
- Forged Brass fluid end construction with high strength.
- Rigorously Subjected to full load testing.
- Manufactured on state of the art machinery.
- Light in weight & Heavy duty construction with Continuous duty model.
- Splash lubrication.
- Available direct couple 1750 rpm drives.
- Easy Field Maintenance.



➤ Material of Construction of Major Parts



1. **Crank Case:** - Crank Case made of High Strength Aluminum Pressure Die Casting, with fit led anti friction bush.
2. **Crankshaft:** - Crankshaft is made of Forged Alloy Steel, with Hardened & Ground.
3. **Bearing:** - Oversized for maximum life and load disbursement. Taper roller bearing enables it to handle 26% more load than other pumps.
4. **Connecting Rod:** - Forged Aluminum connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.
5. **Piston (Plunger Rod):** - Stainless Steel Construction for hard surface coating and super finish.

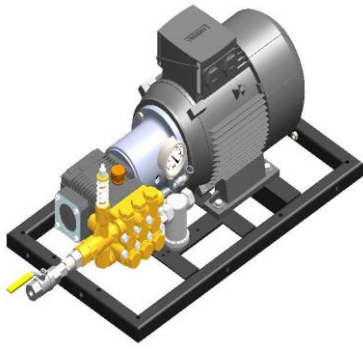
6. **Pump Head (Manifold Housing):** - Pump head is made of High Strength Forged Brass.

7. **Plunger:** - Primarily composed of High Finish Solid Ceramic Plunger and Surface roughness is extremely good i.e. <math><0.25\text{ Ra}</math> for less wear of Plunger seal.

8. **Plunger Seal:** - Durable Fiber Impregnated Buna-n Seal packing (Make Parker, Germany) for high compressive & tensile strength ensures effective sealing.

9. **Complete Valve:** - Valves made of Stainless Steel, anti-corrosion hard surface coated for long life. High volumetric efficiency, valves operate at more than 95% efficiency.

HW Series Various Types of Systems



Base Frame mounted System



Trolley Mounted System



Frame Mounted System with Control Panel



Trolley Mounted System



Trolley Mounted System



Trolley With Tank System

A system means integration of bare pump, and other accessories like base frame trolley, hoses, different valves, pressure gauge and almost all essential accessories to be fitted, to make a complete module as system, to perform particular task / application with optimum performance and safety.

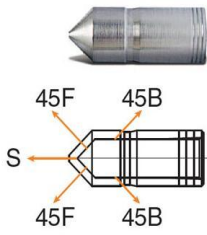




Surface Cleaning Accessories

			
<p>Trigger Operated Spray Gun</p>	<p>Unloader Valve</p>	<p>Safety Valve</p>	<p>Pressure Gauge</p>
			
<p>0° & 5° Surface Cleaning Nozzle</p>	<p>VAN - Variable Spray Angle Nozzle</p>	<p>Rotating Turbo Nozzle</p>	<p>Water Sand Blasting Nozzle</p>
			
<p>Chemical injector</p>	<p>High Pressure Hose</p>	<p>Insulated Lance</p>	<p>Rigid Lance</p>




Hydro Test Accessories

		
<p>Pressure Regulating Valve</p>	<p>External Non Return Valve</p>	<p>High Pressure Ball Valve</p>

Tube Cleaning Accessories

				
<p>Conventional Nozzle System</p>	<p>Multi Jet Rotating Nozzle</p>	<p>Tube Cleaning Rotating Nozzle</p>	<p>Foot Operated Valve</p>	<p>Flexible Lance</p>

Sewer Jetting Accessories

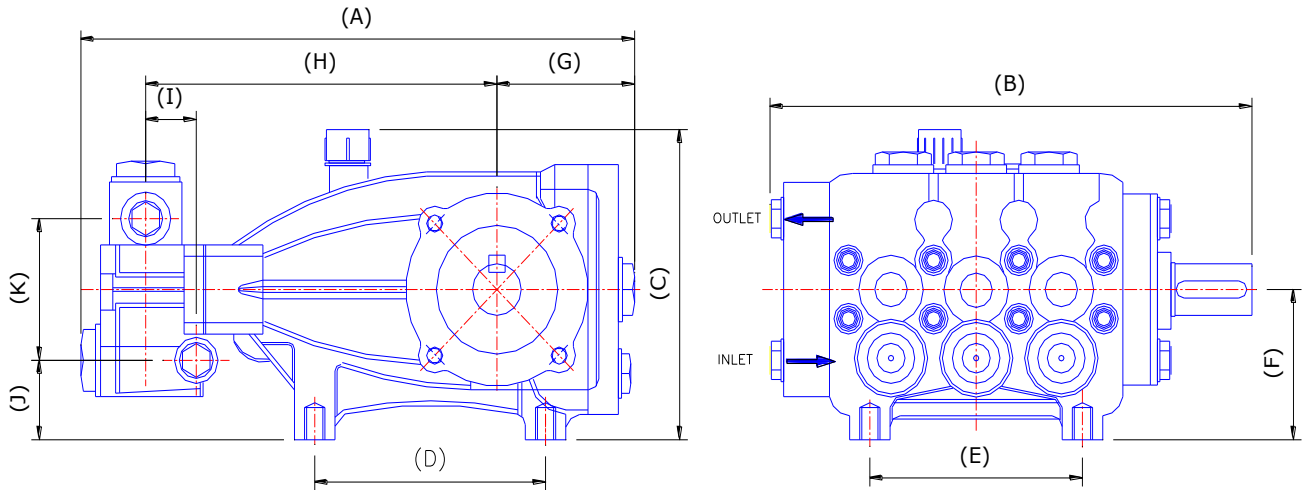
			
<p>Hose Reel</p>	<p>Sewer jetting Conventional Nozzle</p>	<p>Sewer Jetting Rotating Nozzle</p>	<p>Sewer Jetting Hose</p>

UHP Fire Fighting (Mist Fire System) Accessories

			
<p>UHP Fire Fighting Foam Gun</p>	<p>Misting Nozzle - Open Type</p>	<p>Misting Nozzle - Close Type</p>	<p>Misting Nozzle Tip</p>

HW Series Bare Pump Dimensional Drawing

(All Dimensions are in mm)



Model	A	B	C	D	E	F	G	H	I	J	K
NHD 1212 R	251	213	135	80	90	60.5	69	140	5	30.5	56
NHD 1415 R	251	213	135	80	90	60.5	68.5	140	5	30.5	56
NPM 1525 R	273.5	238	144.5	90	105	70	68	173.5	25	37	66
NMT 2120 R											
NLT 3020 IR	333	248	168.5	105	145	82	81.5	204.5	12	42	77
XLT 4017 IR	341	263	168.2	145	105	82	-	217.5	28	35	87
XLT 5415 IR											
XLT 2730 IR											
XXT 7015 IR	344	263	168.5	145	105	82	-	198.5	10	35	91
PX 1550 IR	303.5	263	168.5	145	105	82	81.5	244.5	12	40	82
PX 1735 IR											
PX 2150 IR											

Systems Application



Surface Cleaning



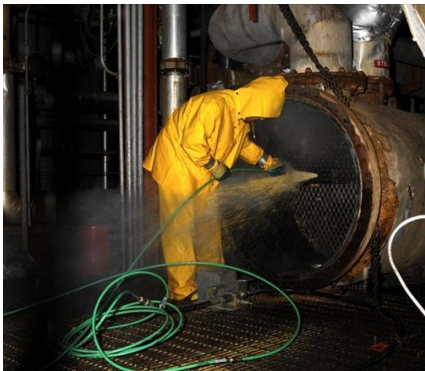
Industrial cleaning



Paint Removal
















Hydro Test



Tube Cleaning – Internal



Tube Bundle Cleaning – External

Partial List of Clients	
Company Logo	Client Name
	BHEL
	Larsen & Toubro
	Grasim
	Essar
	ONGC
	Thermax
	Godrej
	Tata
	Reliance
	Hindalco
	Alstom
	Dalmia
	ISGEC

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Our Website is fully informative, exhaustive and communicative. It is designed to provide maximum information in most precise form to help our valued customers to take a quick and right decision.

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