

# High Pressure Triplex Plunger Pump

## HW Series



**2021**



- ✓ Established in 1996 in Ahmedabad, India.
- ✓ An ISO 9001:2015 certified company
- ✓ Manufacturer of high pressure, positive displacement, reciprocating triplex plunger pumps and relevant accessories.
- ✓ More than 85 dedicated people.
- ✓ 15000 Sq.ft. area in Asia's premier industrial estate in Ahmedabad.



**MORE THAN 5000 CUSTOMERS WORLD WIDE...**

## OPEN CHALLENGE

### Not ONE Indian manufacturer can match the following BASIC USPs of PressureJet!!!

1. We test each model for 500 hours of rigorous, continuous duty performance before it is introduced in the market. All our pumps undergo rigorous, continuous test at full test parameters for 500 hours, to ensure trouble free and a long life of our pumps in the field. PressureJet can produce proof of such tests, no other manufacturer can! More than 90% manufacturers do not have a test bench where they can take such test!!

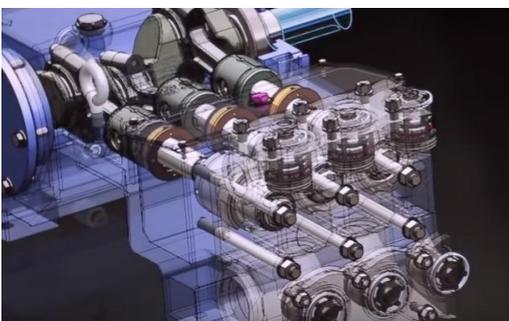


2. Thoroughly check each component of DIFFERENT pumps and accessories, using over 257 quality checking instruments including CMM. No other manufacturer can claim to have such variety of Quality checking instruments, which are essential to ensure technically correct products.

3. PressureJet implemented Oracle EBS 12.1.3. There are innumerable features which many other software do not have. One of the features is: 80% Purchase Orders for items that go in your pump are sent automatically. Less human intervention means faster processes, correct and timely purchases, and reduced employee cost. This is the reason why PressureJet is very competitive in spite of being No. 1 in Quality.



4. Incorporate "BLIND QUALITY CONTROL" feature that prohibits inspection team access to data on quality checks. Ensures 100% quality deliverance for client, reduces overall costs.



5. Use Work Stations with licensed 3-D Solid Work Software. Increases accuracy through better designs, reduces costs through increased productivity and guaranteed lab test design parameters, which saves unbelievable resource cost on the account of Trial and Error.



6. Assemble your pump in a totally dust-free environment to which ensures a long life of your pump. In case the assembled pump has tiny dust particles, you can't even imagine that how much it will cost you in the long run.

7. PressureJet is probably the only Indian High PressureJet Pump manufacturer that carries a million-dollar inventory. For this reason, you don't need to worry about in-time delivery of spares when you exhaust your inventory!!!

8. Use state-of-the-art Atlas Copco make electric torque wrench to tighten all bolts in your pump. Ensures perfect fitting of all parts of your pump. This ensures long life of parts. This is one of the reasons, PressureJet is the only supplier which insists customer to opt for 24 hours continuous duty test, before finalizing the order and committing your major investment. No other High PressureJet Pump manufacturer in the world uses this highly sophisticated, latest tool.

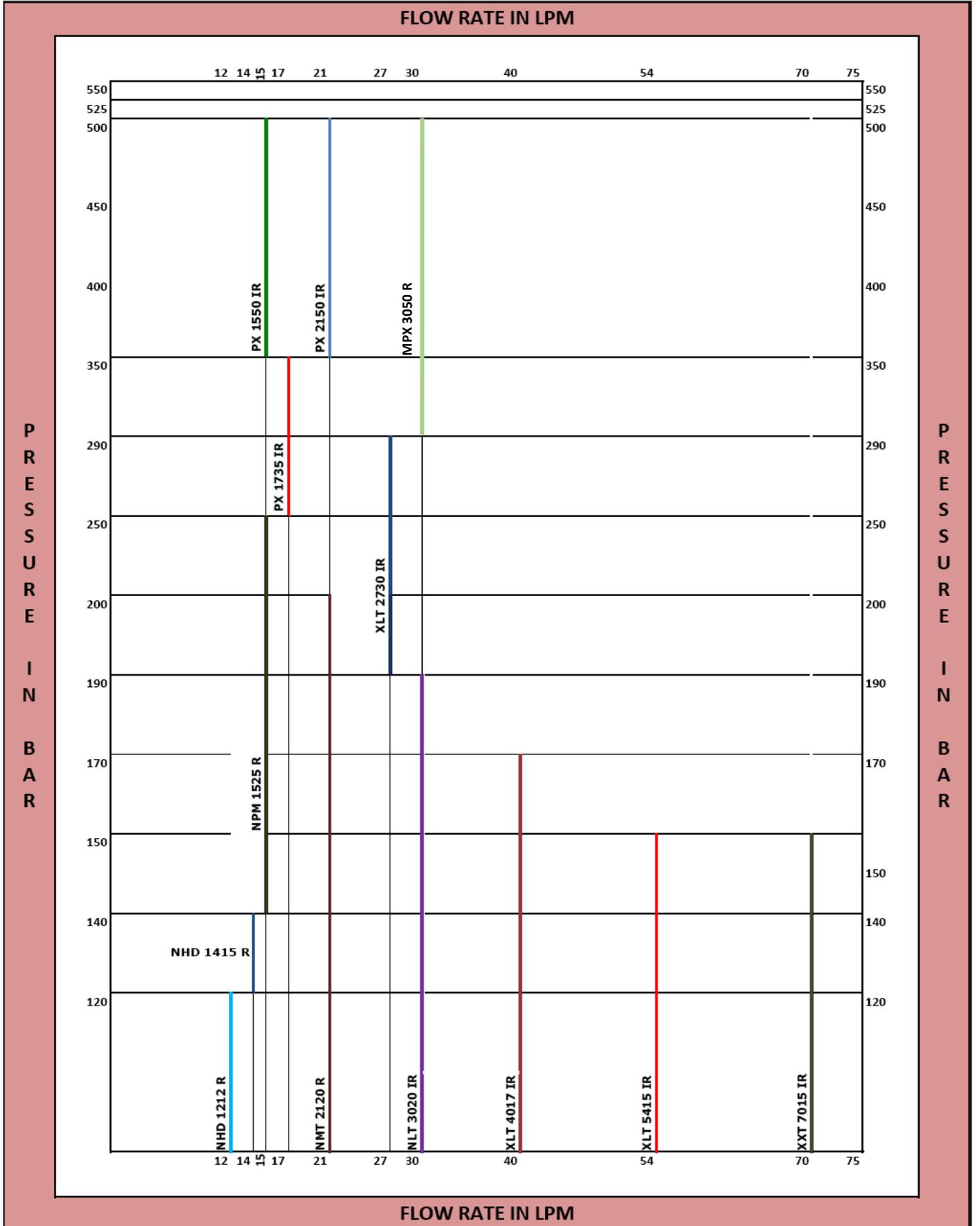


9. Provide online access to view the pump performance during Inspection. Enables you to view the actual performance of your pump through IP cameras in real-time.



10. Lowest Price Guarantee: To a Genuine buyer, PressureJet guarantees that in case you find our prices higher than any other manufacturer, we shall offer you 1.25 times more discount than the price difference. For example, in case our price is Rs. 40,000/- and another manufacturer's price is Rs. 38,000/-, then we shall offer you a discount @ 1.25 times of the difference in value i.e. Rs. 2,500/-. This guarantee is valid for 3 months even after the date of dispatch. Should you need, PressureJet shall be happy to submit this guarantee on a Judicial Stamp paper.

## 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
NHD1212R	12	90	3	1450	1/2"	3/8"	60	0.4	6.6	250.5 x 213 x135
		60	2							
NHD1415R	14	140	5	1450	1/2"	3/8"	60	0.4	6.6	250.5 x 213 x135
NPM1525R	15	250	10	1450	1/2"	3/8"	60	0.7	9.5	273.5 x 238 x 144.5
		180	7.5							
NMT2120R	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							
NLT3020IR	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							
XLT4017IR	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							
XLT5415IR	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							
XXT7015IR	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							
PX1550IR	15	500	20	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
PX1735IR	17	350	15	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
PX2150IR	21	500	30	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
XLT2730IR	27	290	20	1450	1/2"	3/8"	60	1.2	19.2	353.5 x 268 x 168.5
MPX3050R	30	500	40	1450	3/4"	1/2"	60	2.3	28.5	430.5 x 344 x 217

**NOTE: - All Pumps are suitable for 60Hz Motor also at 60 Hz. Flow Rate and required motor HP will be increased by 20% approx.**

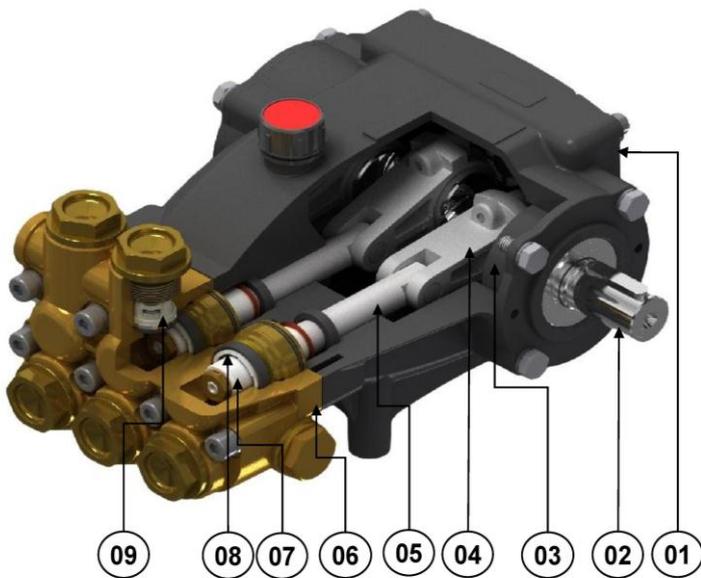
## HW Series Bare Pump

### ➤ 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.

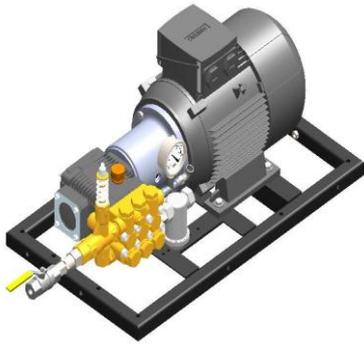
**6. Pump Head (Manifold Housing):** - Pump head is made of High Strength Forged Brass.

**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.

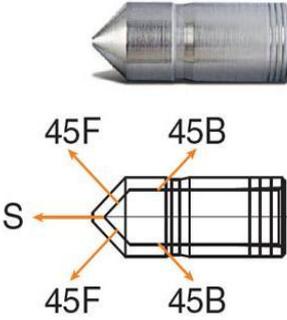
**Surface Cleaning Accessories**

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

**Hydro Test Accessories**

		
Pressure Regulating Valve	External Non Return Valve	High Pressure Ball Valve

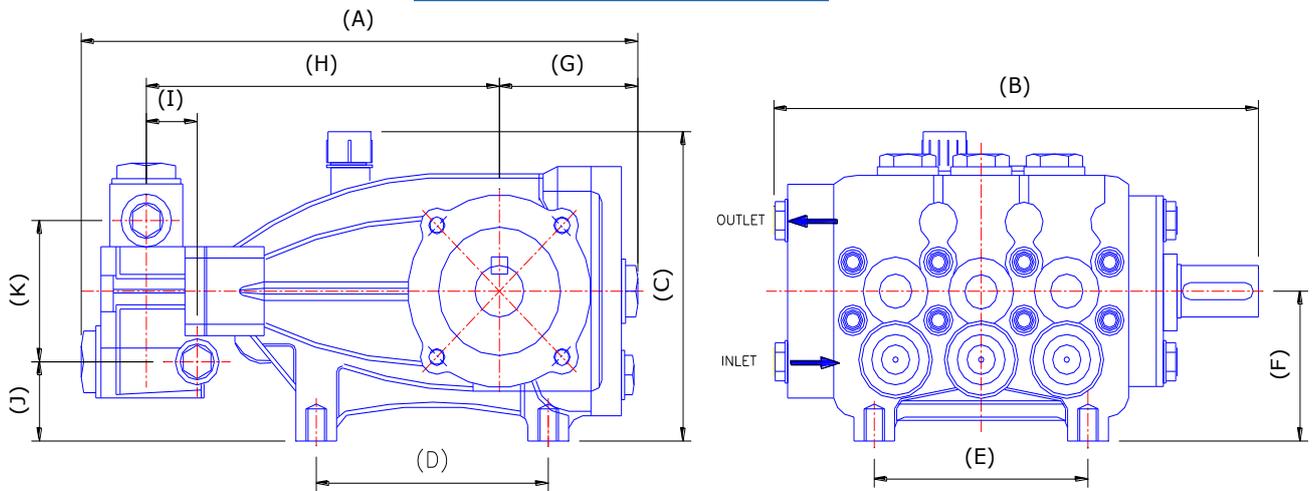
**Tube Cleaning Accessories**

		
<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>	

<p><u><b>Sewer Jetting Accessories</b></u></p>		<p><u><b>UHP Fire Fighting Gun</b></u></p>
		
<p>Sewer jetting Conventional Nozzle</p>	<p>Sewer Jetting Rotating Nozzle</p>	<p>UHP Fire Fighting Foam Gun</p>

## HW Series Bare Pump Dimensional Drawing

(All Dimensions are in mm)



Model	A	B	C	D	E	F	G	H	I	J	K
NHD1212R	251	213	135	80	90	60.5	69	140	5	30.5	56
NHD1415R	251	213	135	80	90	60.5	68.5	140	5	30.5	56
NPM1525R	273.5	238	144.5	90	105	70	68	173.5	25	37	66
NMT2120R											
NLT3020IR	333	248	168.5	105	145	82	81.5	204.5	12	42	77
XLT4017IR	341	263	168.2	145	105	82	-	217.5	28	35	87
XLT5415IR											
XLT2730IR											
XXT7015IR	344	263	168.5	145	105	82	-	198.5	10	35	91
PX1550IR	303.5	263	168.5	145	105	82	81.5	244.5	12	40	82
PX1735IR											
PX2150IR											
MPX3050R	430.5	344	201	155	155	102	97	280.5	22	50	100

## 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

**Important Note:** Owing to continuous R & D, any technical details & specifications mentioned in this catalogue are liable to change anytime. All rights reserved to PressureJet. For latest Information & more details, please visit our website.

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.

## PressureJet Systems Pvt. Ltd.

21-24 Panchratna Industrial Estate  
Village : Paldi Kankaj, Taluka : Dascroi  
Ahmedabad – 382 427. Gujarat, India  
E-Mail: [sales@pressurejet.com](mailto:sales@pressurejet.com)

**URL: [www.pressurejet.com](http://www.pressurejet.com)**