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HIGH PRESSURE HYDRO JETTING

CONDENSOR BOILER HEAT EXCHANGER EVAPORATOR

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ABOUT





- ✓ Established in 1996 in Ahmedabad, India.
- ✓ An ISO 9001:2015 certified company
- ✓ Manufacturing various **applications** pumps like Water Jet Cleaning, Hydro Test, Hydro Jetting, Hydro Blasting, Sewer Jetting, Fire Fighting & many more applications.
- ✓ More than **1500** loyal customers and **5000** successful pumps installations worldwide.
- ✓ **11000 Sq. ft.** area in India's premier industrial estate in Ahmedabad.
- ✓ **6000 Sq. ft.** area has been allocated for system manufacturing and testing activities.



MORE THEN 1500 COSTUMERS WORLD WIDE & CONTINUE...

10 SOLID REASONS TO BUY WHICH NO ONE CAN OFFER

- ✓ Test each model for **500 hours** of rigorous, continuous duty performance before it is introduced in the market.
- ✓ Thoroughly check each component of your pump using over 280 quality checking instruments.
- ✓ Implement **Oracle EBS 12.1.3**. Purchase Orders for **80%** of items that go in your pump are sent automatically. Less human intervention means faster processes, correct and timely purchases, and reduced overall cost of your pump.
- ✓ Incorporate "BLIND QUALITY CONTROL" feature that prohibits inspection team access to data on quality checks. Ensures 100% quality deliverance for client, reduces overall costs.
- ✓ Use **6 Nos.** Work Stations with licensed **3-D Solid Work Software**. Increases accuracy through better designs, reduces costs through increased productivity.
- ✓ Assemble your pump in a totally dust-free environment to reduce the cost. Ensures a long life of your pump.
- ✓ Use state-of-the-art **computerized torque wrenches** to tighten all bolts in your pump. Ensures perfect fitment of your pump.
- ✓ 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.
- ✓ 3 Nos. Vertical Lifting Machine (VLM) in warehouse department to ensure on time delivery with accuracy.

✓ In house machine shop to ensure unmatched quality, which includes VMC, CNC Turning, HMC, Heat Treatment Furnace, CNC Cylindrical Grinding, Turn Mill and



QUALITY

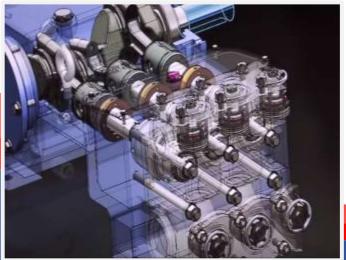
All components are quality checked in the controlled environment of the Q. C. laboratory. We have more than 250 most modern measurement equipment such as 3D CMM, all types of thread, ring and slip gauges, surface roughness measurement Instrument, hardness tester, gear checking instruments etc. with controlled calibration certificates on regular basis. All components are tracked by barcode system with Oracle ERP.





RESEARCH & DEVELOPMENT

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 are committed to provide excellent quality, we follow by using **solid works 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 like VMC, CNC, HMC, Heat Treatment Furnace, CNC Cylindrical Grinding and many more. 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 with **SCADA System** and then it can be printed. Test report is always provided with the pump.

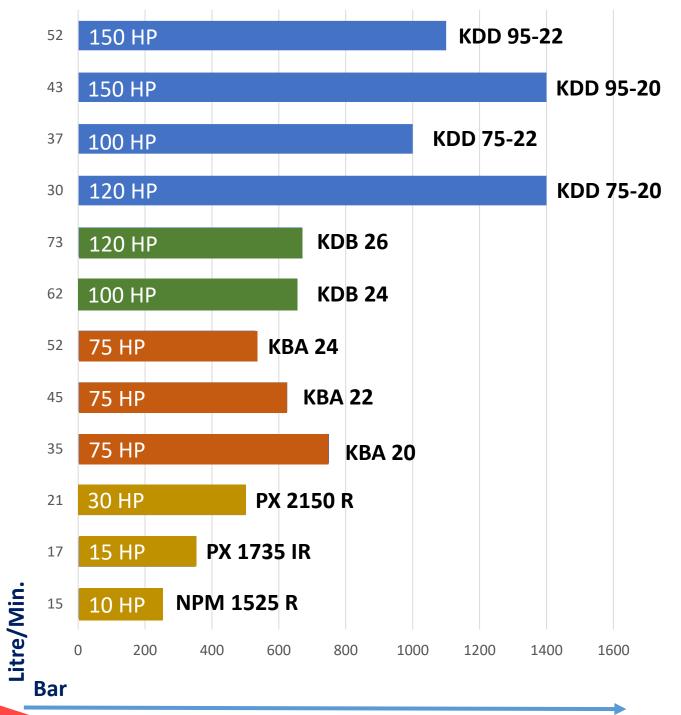
STORE / SERVICE

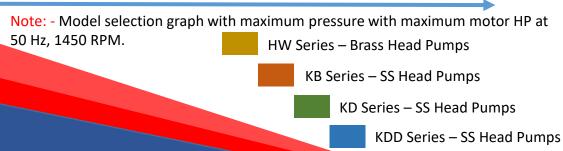
A product is only as good as the service backing it. We have a dedicated team of technicians available for 24 X 7. We keep majority of spares Ex-stock to reduce down time.





HYDRO JETTING MODEL SELECTION CHART





HW SERIES JETTING SYSTEM



- ✓ 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 driven.
- ✓ Easy Field Maintenance.

Pump model	Flow (LPM)	Flow (GPM)	Pressure (Bar)	Pressure (PSI)	Motor H.P.	Engine H.P.	
50 Hz (1450 RPM)							
NPM 1525 R	15	4	250	3625	10	13	
PX 1735 IR	17	4.5	350	5000	15	25	
PX 2150 IR	21	5.5	500	7250	30	38	
60 Hz (1750 RPM)							
NPM 1525 R	15	4.7	250	3625	10	-	
PX 1735 IR	17	5.4	350	5000	15	-	
PX 2150 IR	21	6.7	500	6525	30	-	



Frame Mounted System



Trolley Mounted System

Technical Details: -

Inlet connection (BSPF) – 1/2"

Outlet Connection (BSPF) - 3/8"

Working Fluid Temp. − 60 °C

KB SERIES JETTING SYSTEM

- ✓ Field proven design.
- ✓ Forged S.S. pump head construction with high strength.
- ✓ KB Series designed with in built gear.
- ✓ Splash lubrication. Force feed lubrication also available on request.
- ✓ Available in 6 versions.
- ✓ Rigorously Subjected to full load testing.
- ✓ Manufactured on state of the art machinery.
- Available direct couple 1750 RPM drives.
- ✓ Easy Field Maintenance.

Pump model	Flow (LPM)	Flow (GPM)	Pressure (Bar)	Pressure (PSI)	Motor H.P.	Engine H.P.
KB 20 35		9.2	500	7250	50	60
	35		620	9000	60	72
			750	10890	75	94
KB 22 45	45	11.9	500	7250	60	72
	45		625	9000	75	94
KB 24	52	13.7	530	7700	75	94

Note: - All pumps are suitable for 50 Hz and 60 Hz. Gear ratio will change as per Hz.

Technical Details: -

Inlet connection (BSPF) - 2"

Outlet Connection (BSPF) - 1/2"

Working Fluid Temp. − 60 °C



Frame Mounted System



Trolley Mounted System

KD SERIES JETTING SYSTEM



- ✓ Field proven design.
- ✓ Forged S.S. pump head construction with high strength.
- ✓ KD Series designed with in built gear.
- ✓ Splash lubrication. Force feed lubrication also available on request.
- ✓ Available in 3 versions.
- ✓ Rigorously Subjected to full load testing.
- ✓ Manufactured on state of the art machinery.
- ✓ Available direct couple driven.
- ✓ Easy Field Maintenance.

Pump model	Flow (LPM)	Flow (GPM)	Pressure (Bar)	Pressure (PSI)	Motor H.P.	Engine H.P.
KD 24	62	16.4	655	9500	100	125
KD 26 73	10.2	560	8120	100	125	
	/3	19.3	670	9720	120	154

Note: - All pumps are suitable for 50 Hz and 60 Hz. Gear ratio will change as per Hz.



Skid Mounted Diesel Driven System

Technical Details: -

Inlet connection (BSPF) -2"

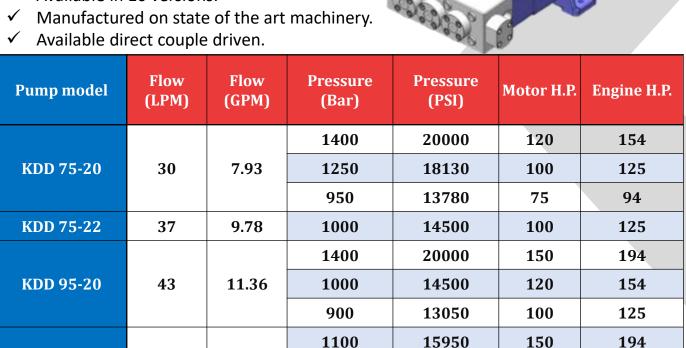
Outlet Connection (BSPF) - 1/2"

Working Fluid Temp. − 60 °C

KDD SERIES JETTING SYSTEM

- ✓ Field proven design.
- ✓ Forged S.S. pump head construction with high strength with Incorporated gear box.
- Pressure packing design with integrated cooling Systems for long life of seal.
- ✓ In line Suction / delivery Valve.
- Splash lubrication and also available force feed lubrication with oil cooler / filter on request.
- ✓ Available in 10 versions.

KDD 95-22



880

750

12515

10760

Note: - All pumps are suitable for 50 Hz and 60 Hz. Gear ratio will change as per Hz

Technical Details: -

52

Inlet connection (BSPF) – 2"

Outlet Connection (BSPF) - 1/2"

13.74

Working Fluid Temp. – 60 °C



120

100

154

125

Trolley with Tank System with FLP Motor

HYDRO JETTING ACCESSORIES

SAFETY VALVE

Safety valve is very important accessory and it prevents **major accident**, in case of event of any problem because of high pressure built up in line. It is standard on all PressureJet Pumps for the temporary relief of excess system pressure.

Safety Valve

- ✓ Provide over pressure protection
- ✓ Redundant safety for operator
- ✓ Intentionally designed weak part to avoid major loss
- ✓ Pressure range up to 1400 bar 20,000 PSI.
- ✓ Flow rate range up to 80 LPM 21.13 GPM.

Note:- If pressure relief valve is fitted as secondary safety device, then Safety Valve is not required.



PRESSURE RAGULATING VALVE

A **pressure regulating valve** is a control valve that regulate the output pressure of the pump. Regulators are used for gases and liquids, and can be an integral device with an output pressure setting, a restrictor and a sensor all in the one body, or consist of a separate pressure sensor, controller and flow valve.



Pressure Regulating Valve

- Regulate output pressure as required
- ✓ Bypass excess water
 - Pressure range up to 1400 bar 20,000 PSI.
- ✓ Flow rate range up to **80 LPM 21.13 GPM.**

Foot operated valve are operated by foot paddle. This are mainly used in hydro jetting applications. Foot operated valve used for loading & unloading the pressure in pump, this foot operated control valves are designed for smooth reliable operation.

Foot Operated Valve (FOV)

- ✓ To start-stop and control water flow thru foot of operator, while keeping his hands free for the in-out movement of flexible lance inside tubes.
- ✓ Very essential for Operator safety to avoid any accident.

HIGH PRESSURE FLEXIBLE LANCE

A **high pressure flexible lance** connect FOV to Nozzle. Tube or pipe cleaning Nozzle are attached to the end of the lance to clean tubes or pipes of various diameters.

High Pressure Flexible Lance

- ✓ Smooth inner core surface to minimize pressure drop
- ✓ Small diameter pipes to easily enter inside ID of tubes.
- ✓ specially designed to withstand high pressures.
- ✓ Available in various lengths as per requirement.
- Mainly used in hydro jetting applications of pressure up to 1400 bar and tube ID size up to 60 mm are available.

HIGH PRESSURE RIGID LANCE

In hydro jetting application, **high pressure rigid lance** for easy and firm grip to counter back pressure at the time in and out of nozzle. Nozzle are attached to the end of the lance and size of the nozzle provide certain pressure depending on the flow rate.

High Pressure Rigid Lance

- SS construction for long life.
- ✓ Available in various lengths as per requirement.

CONTROL PANEL

A control panel is a flat, often vertical, area where control or monitoring instruments are displayed. In control panel there are many controls like on/off button, Safety Shut down switch, Voltage and Ampere readings etc....



Electric Control Panel

Electric Control Panel

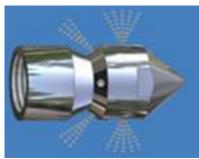
- ✓ Over and under voltage protection
- ✓ Electric control panel with important and necessary controls like hour meter, volt meter, over load protection and many more
- ✓ Control panel with single phase and short circuit protection

HYDRO JETTING NOZZLES OPTIONS









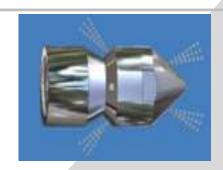
Tube Cleaning Nozzle Options

- ✓ SS Hardened nozzles, specially designed to suit high pressure
- ✓ Various nozzle sizes available to suit different applications and Tube IDs ranging from min. 13 mm (1/2") to max. pipes of 1800 mm (72")
- ✓ Various hole patterns available for effective cleaning as per job requirement
- ✓ Conventional and Rotating both type of nozzles available
- ✓ Note: Detailed consultation will be provided on request.

CONVENTIONAL TUBE CLEANING NOZZLE







Conventional Tube Cleaning Nozzle

- ✓ SS Hardened nozzles, designed to suit high pressure
- ✓ Various sizes available to suit different Tube IDs ranging from min. 13 mm (1/2") to max. pipes of 100 mm (4")
- √ Various hole patterns available for effective cleaning
- ✓ Note: Detailed consultation will be provided on request.



ROTATING TUBE CLEANING NOZZLE







Rotating Tube Cleaning Nozzle

- Highly effective and time saving than conventional.
- ✓ StoneAge-USA make patented design.
- ✓ Various sizes available to suit different Tube IDs ranging from min. 13 mm (1/2") to max. pipes of 1800 mm (72").
- ✓ Note: Detailed consultation will be provided on request.

SAFETY SUIT

Safety Suit is essential for worker who is going to work with hydro jetting system on site. Safety suit is for protection of operation from high pressure water.

Safety Suit

- ✓ For protection of operator from high pressure water
- ✓ Essential for safety



PRESSURE GAUGE

Glycerin Filled Pressure Gauge, ideal for dampening the effect of pulsation and vibration. Widely demanded, it has a stainless steel case filled with glycerin to offer protection against harsh environments. It enhances the integrity and reliability of measuring system for long periods under extreme operating condition.

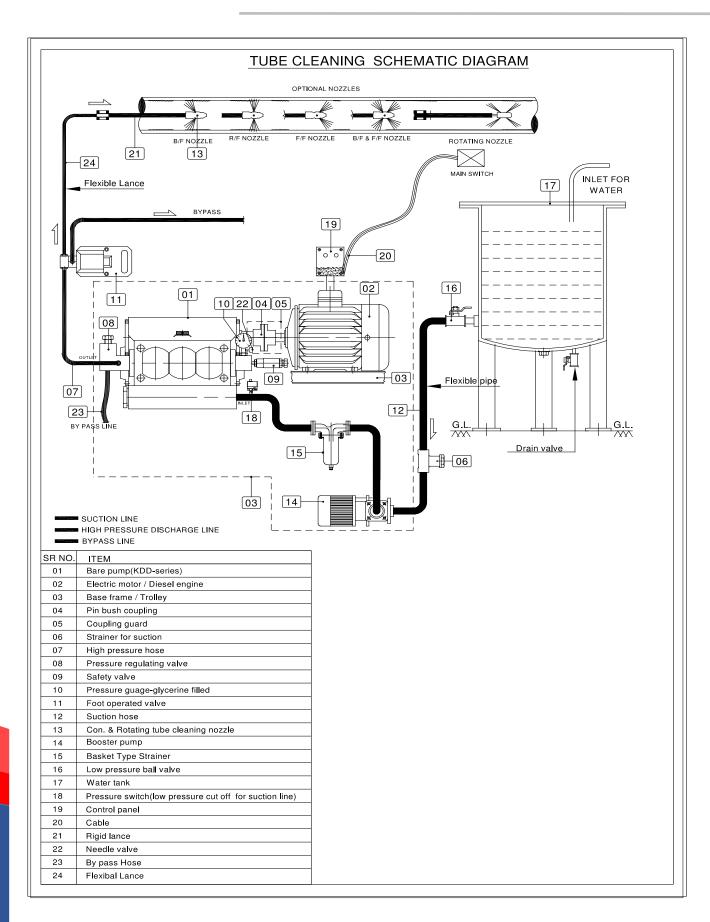
Note: - Available in various size as per requirement.



Pressure Gauge

- ✓ Approx. 2 times pump operating pressure
- ✓ Glycerin filled
- ✓ Easy read dial
- ✓ With needle valve

LINE DIAGRAM OF HYDRO JETTING SYSTEM



HYDRO JETTING APPLICATIONS



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