TÜV NORD एन एस आई सी NSIC ISO 9001 : 2015

PressureJet®
EXPLORE THE WATER POWER

VC Series for Hydro Jetting Application

WWW.PRESSUREJET.COM

High Pressure Triplex Plunger Pump: VC-57

Min. Pressure : 600 Bar	Max Pressure : 1400 Bar
Max. Flowrate. : 32 LPM	Min. Flow Rate : 16 LPM

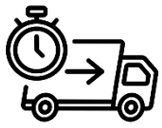
PressureJet
EXPLORE THE WATER POWER

PRESSUREJET IDEOLOGY

We, at PressureJet believe in the fundamental value of transparency. We take pride in making our customers more informed by sharing the knowledge about the product, its fair pricing and ethical industrial practices. In this digital era, no technology is a secret. It all boils down to systematic management & processes. We guarantee a 100% transparency and honesty regarding the quality we deliver so that our customers are able to compare and evaluate the available options to take the right decision.

PressureJet believes in providing the best quality products to its customer and therefore each component is carefully examined before assembly for maintaining consistent quality.

PressureJet has a production capacity of 25 pumps per day. We procure our raw materials in huge quantity and lots in order to provide quick delivery and also to ensure consistent quality.



PressureJet maintains ₹10 Cr+ inventory. We keep parts like crankcases, crankshafts, motors, diesel engines, and even ready systems and pumps in stock for ensuring quickest possible delivery to our customers.

We maintain ex-stock spares in order to provide speedy service to our customers. We assure you best customer service experience with our well trained technicians and genuine spares with timely delivery.

PressureJet
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Advanced Production Facility

Actual Photo

The machining process is performed In house in the Mazak 9-Axis Mill-Turn INTEGERX i-200 ST Machine to ensure best accuracy and to maintain GD&T parameters.

Used in: Crank shaft, cross head, stuffing box and Valve.

Actual Photo

All the machining processes for manufacturing crank case are performed in house in the Mazak HCN 6800 HMC machine to ensure best accuracy & to maintain GD&T parameters.

Used in: Crank Case

All the machining processes of the base frame is performed in house in the Kafo Double Column Vertical Milling Centre machine to ensure best accuracy & to maintain GD&T parameters.

Used in: Base Frame

PressureJet has 6 Test Benches which permits simultaneous testing of 6 pumps ranging from 20HP to 500HP

Actual Photo

Actual Photo

10 micron surface roughness is maintained during performing machining processes In House in the VMC Machine.

Used in: Bearing

Technology at PressureJet

PressureJet is one of the few MSMEs to have successfully implemented ORACLE e-Business Suite ERP

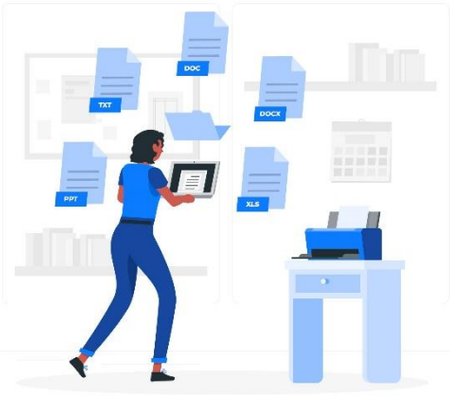
Oracle E-Business Suite ERP helps in smooth and efficient management of supply-chain, enabling us to handle large number of orders.

DataDoc, an in-house development, this software enables us to manage day-to-day activities related to sales as well as facilitates order & enquiry management. Provides visibility in large number of orders.

GD&T parameters are examined in house in the 3D CMM (Co-ordinate Measuring Machine).

Each component is inspected thoroughly in order to ensure GD&T compliance. It is Used in all the components to maintain quality.

PressureJet believes in paperless management & work. That is the sole reason we have invested in technology and software like ORACLE & DataDoc.



Hydro Jetting Application

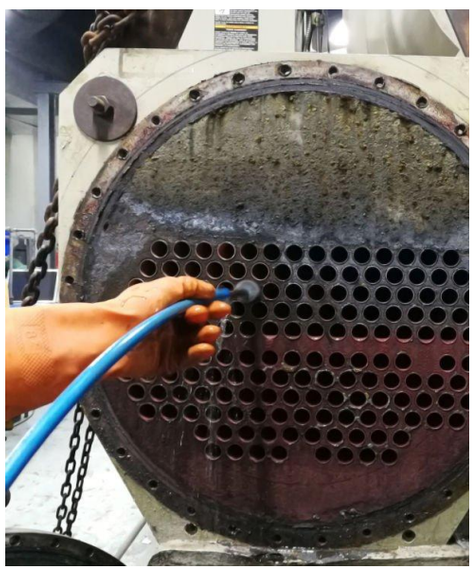
Pressure Jet Hydro Jetting Machine – 1st Choice of Engineering Maintenance Contractors

Experience superior cleaning performance with Pressure Jet Hydro Jetting Machines, engineered for the toughest heat exchanger, evaporator, and pipeline cleaning applications. Delivering pressure up to 1400 Bar and power up to 150 HP, these machines ensure efficient scale removal, improved heat transfer, and reduced downtime. Trusted in 50+ countries, Pressure Jet combines high efficiency, safety, and reliability with advanced engineering and unmatched durability. Ideal for sugar mills, chemical plants, refineries, and maintenance contractors, Pressure Jet's compact and heavy-duty hydro jetting systems deliver precision, performance, and productivity you can rely on — every time.

Heat Exchanger Tube Cleaning

- **Thorough Scale Removal:** High-pressure water jets up to 1400 Bar effectively remove hard scale, sludge, and deposits without damaging tube surfaces.
- **Enhanced Heat Transfer Efficiency:** Restores optimal thermal performance by ensuring tubes are completely clean and unobstructed.
- **Reduced Maintenance Downtime:** Fast and efficient cleaning process minimizes equipment shutdown time during overhauls.
- **Eco-Friendly & Chemical-Free Cleaning:** Uses only high-pressure water — eliminating the need for hazardous chemicals.
- **Reliable, Durable & Easy to Operate:** Precision-engineered system ensures consistent performance, longer service life, and operator safety.

Industrial Pipe Cleaning



- **Complete Blockage Removal:** High-pressure water jets efficiently clear scale, sludge, and deposits from pipes of all diameters.
- **Improved Flow Efficiency:** Restores optimal fluid flow, reducing pressure drop and enhancing system performance.
- **Minimized Downtime:** Rapid cleaning process allows faster maintenance, keeping operations running smoothly.
- **Chemical-Free & Environmentally Safe:** Cleans pipes using only high-pressure water, eliminating hazardous chemicals.
- **Durable, Reliable & Safe:** Engineered for long service life, consistent performance, and safe operation in industrial environments.

Pump Specification: VC-57

Technical Specification of VC-57

Particular	Parameter
Plunger stroke	57 mm
Max. Plunger speed	1.14 m/s @ 600 SPM
Plunger force	22.5 kN (2300 kgf)
Required inlet pressure	2-3 bar
Required inlet flow rate	Booster pump flow require min. 2 times of rated flow rate
Oil type	SAE – 220
Oil capacity	~ 10 litres
Max. Liquid temp.	40˚c
Discharge connection	3/4” BSPF
Suction connection	1” BSPF
Weight	235 kg Approx.
Overall dim. (L*B*H)	814 (L) * 602 (B) * 264 (H) mm

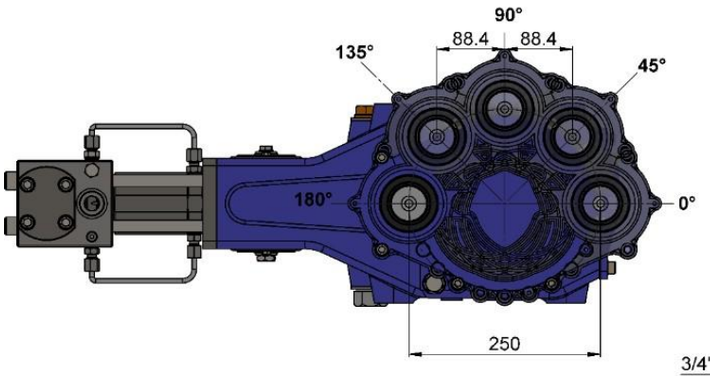
Model Selection Chart for VC-57

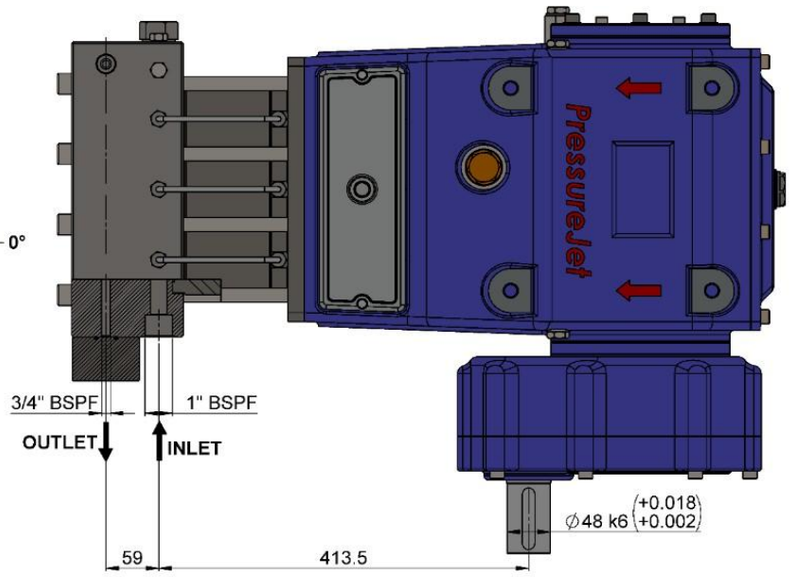
Model	SPM	Input rpm	Flow rate in LPM (GPM)	Pressure in bar (psi)	
				* 50 HP	* 60 HP
VC-57-14	600	1500/1800	15 (3.96)	1300 (18850)	1400 (20300)
VC-57-16	600	1500/1800	22 (5.81)	975 (14150)	1130 (16400)
VC-57-18	600	1500/1800	28 (7.4)	750 (11900)	900 (13050)
VC-57-20	600	1500/1800	35 (9.25)	600 (8700)	725 (10500)

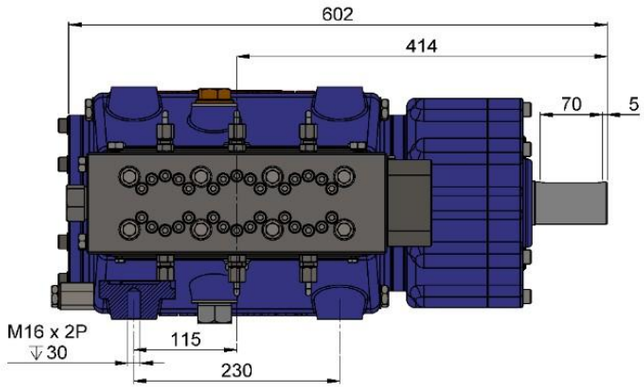
Note: *HP shown is theoretical hp. Required engine HP will be higher approx. 20%.

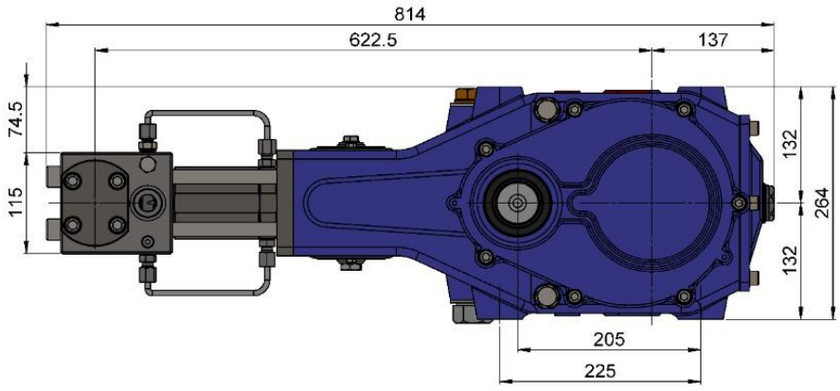
*Volumetric efficiency is approximately 85 ± 2%

GA Drawings


90°
88.4
88.4
135°
45°
180°
0°
250


PressureJet
3/4" BSPF
1" BSPF
OUTLET
INLET
Ø48 k6 (+0.018 +0.002)
59
413.5


602
414
70
5
M16 x 2P
↧30
115
230


814
622.5
137
74.5
115
132
264
132
205
225

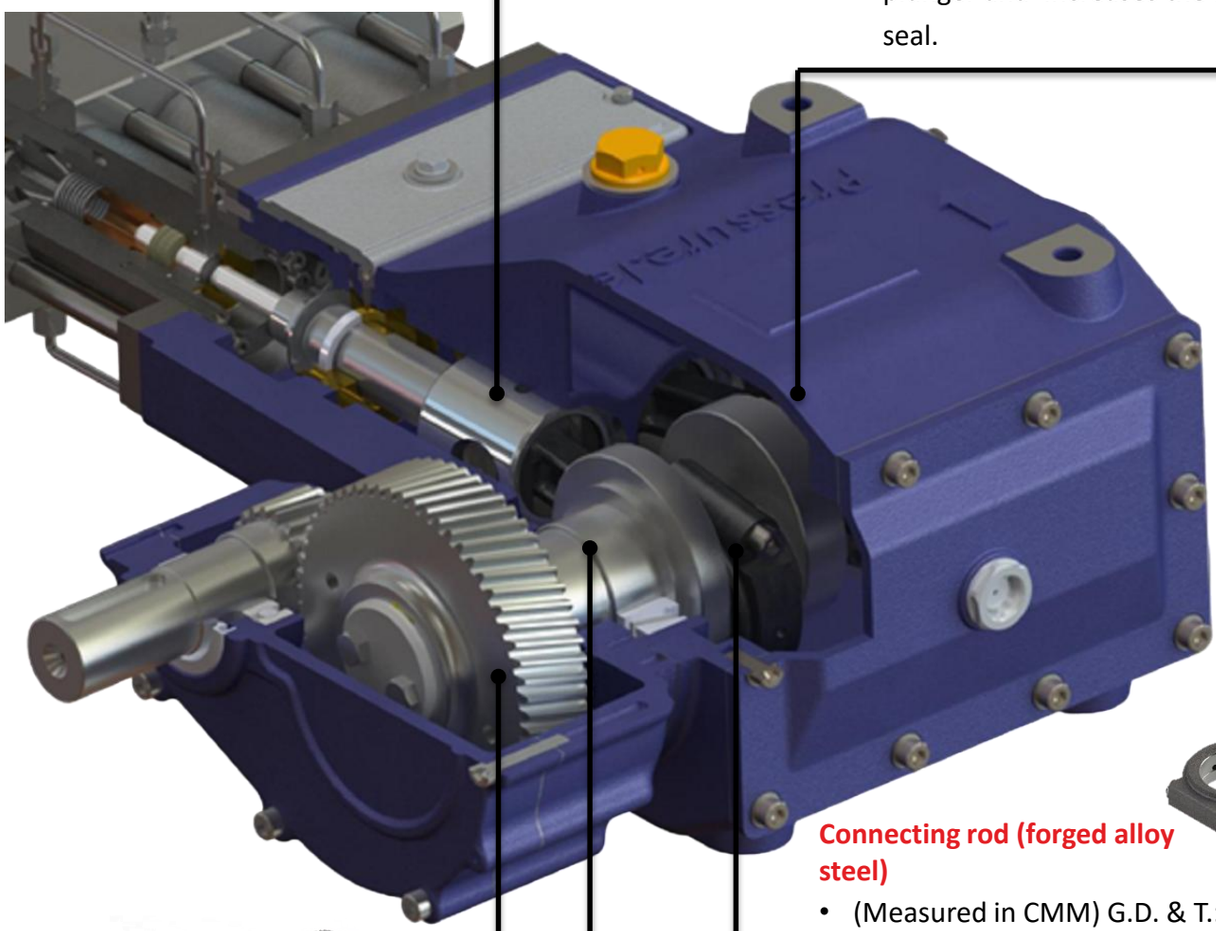
Power End

Crosshead assembly (cast ductile iron +stainless steel)

- Ra value: 0.2 µm
- G.D. & T.: 10 µm (measured in CMM).
- Anti-corrosion treatment on a surface hardness of 50 HRC.

Crank case (FG 260 IS 210-1993-GR)

- Crosshead bore Ra value: 0.2 µm (measured in CMM)
- G.D. & T.:10 µm.
- Raw material testing: physical test.
- It's a single piece housing that removes the misalignment of the plunger and increases the life of the seal.



Connecting rod (forged alloy steel)

- (Measured in CMM) G.D. & T.: 10 µm.
- Heavy pin area construction, which added load strength.

Integrated gear unit (alloy steel)

- Class of accuracy: DIN 6 The integrated gear unit allows for a very compact construction with maximum efficiency.

Crank shaft (forged alloy Steel)

- Ra value: 0.2 µm (measured in CMM)
- G.D. & T.: 10 µm.
- Raw material testing: physical test, chemical test, ultrasonic test, hardness test, and M.P.T. Test.

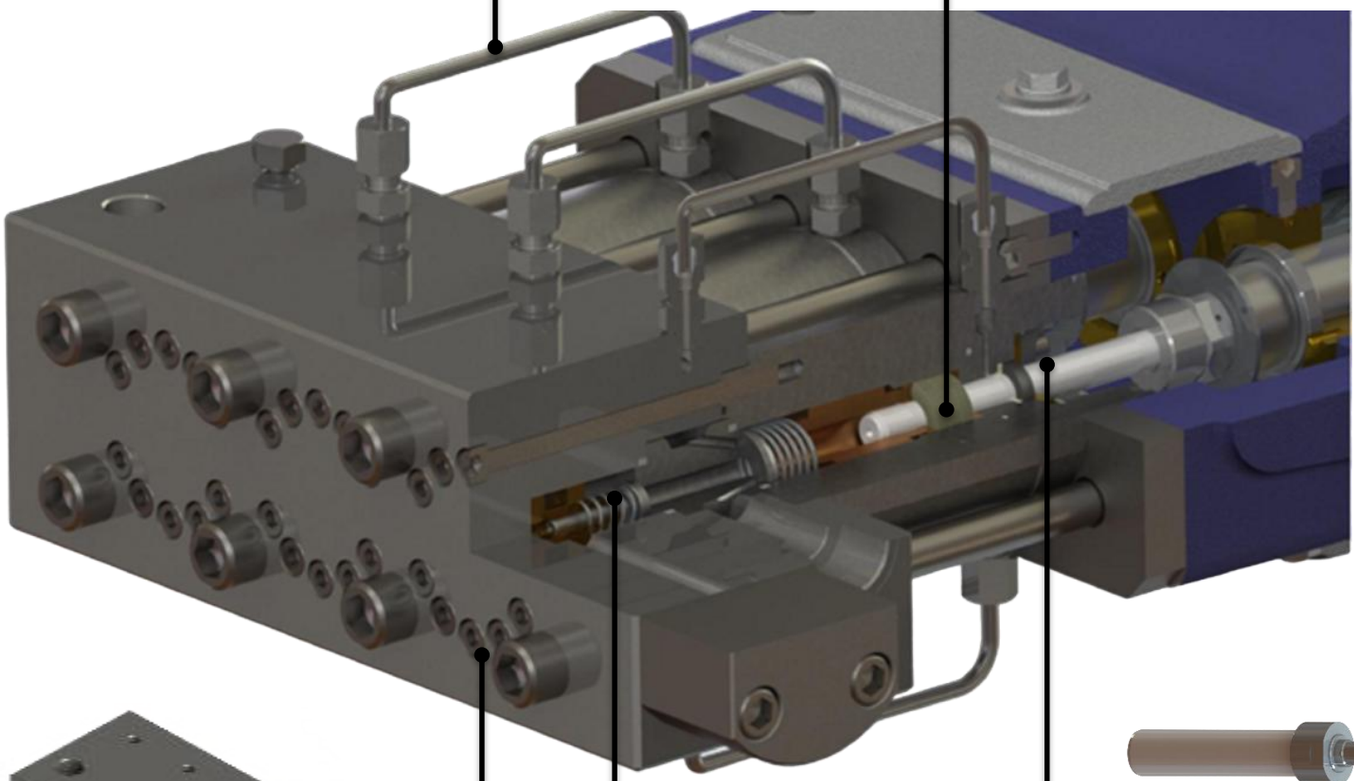
Liquid End

Cooling arrangement

- Efficient water lubrication system ensure proper cooling of plunger & higher life.

Plunger seal

- Special teflon base high-pressure seals are moulded with low pressure seals for plunger cooling systems, which increase the long life of the H.P. Seal.



Plunger (solid ceramic)

- Ra value: 0.025 µm (measured in CMM)
- G.D & T: 10 µm

Pump head (forged stainless steel)

- Testing: - chemical test

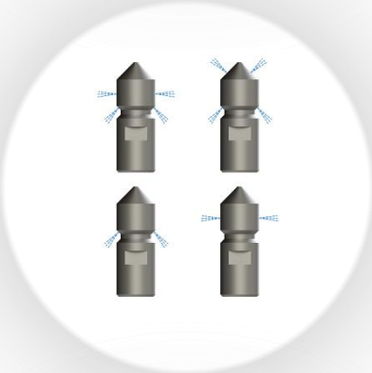
Complete valve assembly

- Valves made of special imported stainless steel - hardened & anti corrosion hard surface coated for long life.
- Ease of access to suction-discharge valve assembly for maintenance.

Hydro Jetting Application Accessories

Foot Operated Valve

- Ensures precise pressure cut-off for maximum pump safety.
- Heavy-duty FOV-30 Safety Valve designed for high-pressure systems.
- Compact, reliable and easy to install on pump outlets.
- Suitable for hydro jetting, descaling, industrial cleaning & safety compliance.



Conventional Nozzle

- PressureJet Tube cleaning nozzles can be used with flexible lance or Rigid Lance.
- Nozzles made from hardened stainless steel.
- Tube cleaning nozzles Available in 8 sizes, 13 Jet pattern and 10 flow rating
- Custom jet patterns and flows available on request.

Banshee Rotating Nozzle

- Ideal for unplugging, cleaning and polishing tubes, such as those found in heat exchangers and industrial tube bundles
- Stainless steel construction for extreme durability and longevity
- Effectively remove thin, hard scale, carbons, coke, and polymers
- Polisher, Unplugger, and Universal heads available

Basket Type Filter

- High-accuracy pressure gauge for continuous monitoring up to 1500 BAR.
- Built with stainless steel casing and glycerin-filled design to resist vibration and corrosion.
- Provides real-time, precise readings for pump performance and safety assurance.
- Available in bottom or back mount designs with multiple dial sizes for easy integration.

PressureJet®
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Our Export Footprints Across 50+ Countries

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Have a look at our Corporate Video

“Seeing is Believing”