

High Pressure Triplex Plunger Pump KBD Series Catalogue

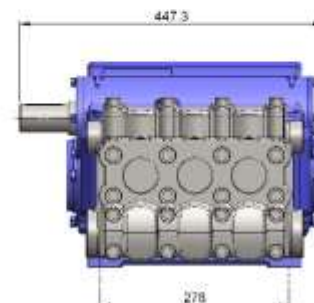
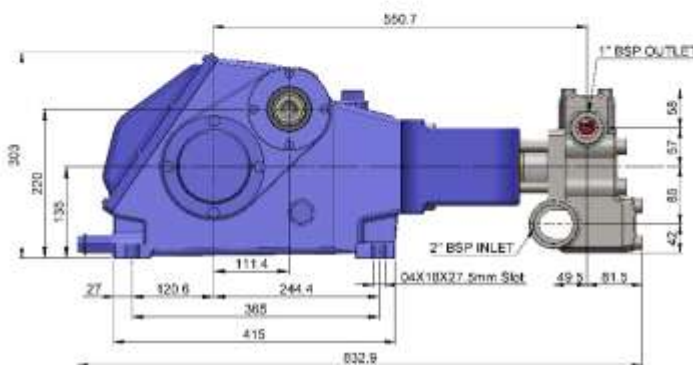
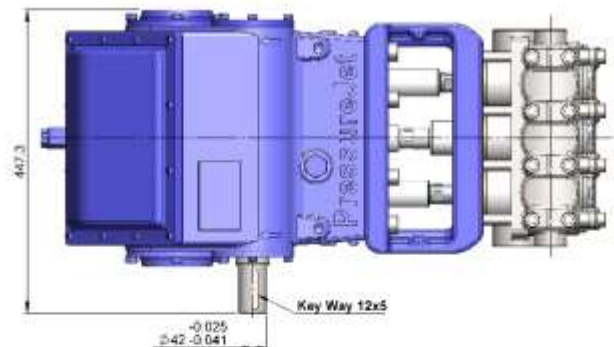
Model Selection Chart

Model	Flow Rate in LPM (GPM)	Max. Rated Pressure in Bar (PSI)		
		60 HP	75 HP	100 HP
KBD-45	190 (50.26)	120 (1740)	150 (2175)	200 (2900)
KBD-50	234 (61.90)	95 (1377)	120 (1740)	160 (2320)

Note:

1. All flow is based on 100% volumetric efficiency. Actual flow will be $\geq 85\%$.
2. Max. SPM is 530 with 1500 RPM (Gear ratio: 2.75:1) & with 1800 RPM (Gear ratio: 3.4:1).

Dimension



Note: All dimensions are in mm & weight of bare pump is 210 Kg Approx.

Salient Features

- In-built gear.
- Splash type lubrication system

Technical Specifications

- Stroke length: 75 mm
- Max. plunger speed: 1.5 m/sec @ 600 SPM
- Plunger force: 31.15 KN (3179 kgf)
- Inlet pressure min.-max.: 2-4 Bar (Booster pump flow require minimum 1.5 times of rating flow)
- Oil type: Gear oil 220
- Oil capacity: 8 Ltrs.
- Max. permissible oil temp.: Room temp.+ 50°C
- Max. inlet water temp.: 5°C to 60°C
- Inlet connection: 2" BSPF
- Outlet connection: 1" BSPF

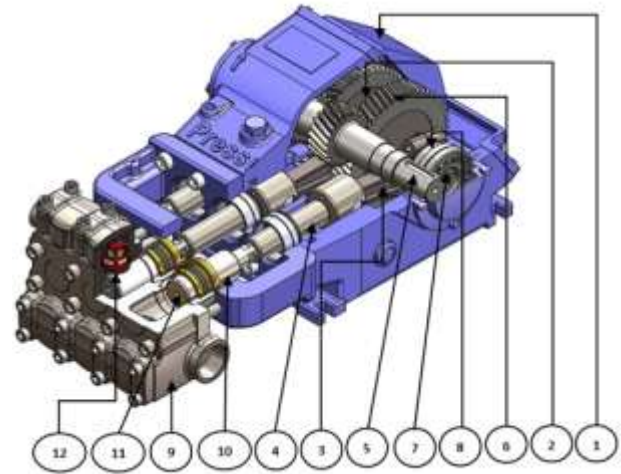
Types of Systems

- Skid mounted system with electric motor and diesel engine
- Trolley mounted system with electric motor and diesel engine
- Road going trailer with electric motor and diesel engine
- All unit available in four side cover or canopy on request

Application

- Hydro test
- Sewer Jetting
- Fire Fighting

Material of Construction



• Power End

1. Main body (Crank case)

Grey cast iron is **210-1993-GR**. FG260 (tensile strength of 260 N/mm²) with cross head **bore surface finish <0.2 Ra** for low friction & low temperature with more mechanical efficiency. **All GD & T are maintained at 10 micron.**

2. Crankshaft

Forged alloy steel Crankshaft, nitride hardened and precision ground for extremely long life and durability. Surface roughness is extremely good i.e. **<0.3 Ra**.

3. Connecting Rod

Alloy forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength. (Pressure Jet is only Indian manufacturer for such connecting rod)

4. Cross head & Pin

Ductile Iron crosshead & stainless-steel piston rod are hardened & having super finish surface. Finish **Ra 0.2 micron** for low friction, low temperature & higher mechanical efficiency. Cross head pin made from the alloy steel. **All GD & T are maintained at 10 micron.**

5. Pinion Shaft

Alloy steel Double helical, nitride hardened and precision ground for extremely long life with low noise and durability. **Accuracy class DIN-6.**

6. Helical Gear

Alloy steel Double helical, nitride hardened and precision ground for extremely long life with low noise and durability. **Accuracy class DIN-6.**

7. Bearing

Oversized for maximum life and load disbursement. Roller bearing enables it to handle 26% more load than other Pumps.

• **Fluid End**

8. White Metal Bearing

Antifriction bearings for long life of crankshaft.

9. Pump Head

Pump Head made of high Resistance, **casting stainless steel & SG 260.**

10. Plunger

Primarily composed of **Ceramic Coated.** Surface roughness is extremely good for long life of the plunger seal i.e. **<0.2 Ra.**

11. High Pressure Plunger Seal

Special Teflon base high-pressure seal moulded with low pressure seal for plunger cooling systems which increase long life of H.P seal.

12. Complete Valve

Valves made of special **imported stainless steel** - hardened & anti corrosion hard surface coated for long life.

Contact us

PressureJet Systems Pvt. Ltd.

21-24 Panchratna Industrial Estate
Village : Paldi Kankaj, Taluka : Dascroi
Ahmedabad – 382427, Gujarat, India

Mobile: +91 93750 22359

E-mail: sales@pressurejet.com

Website: www.pressurejet.com