

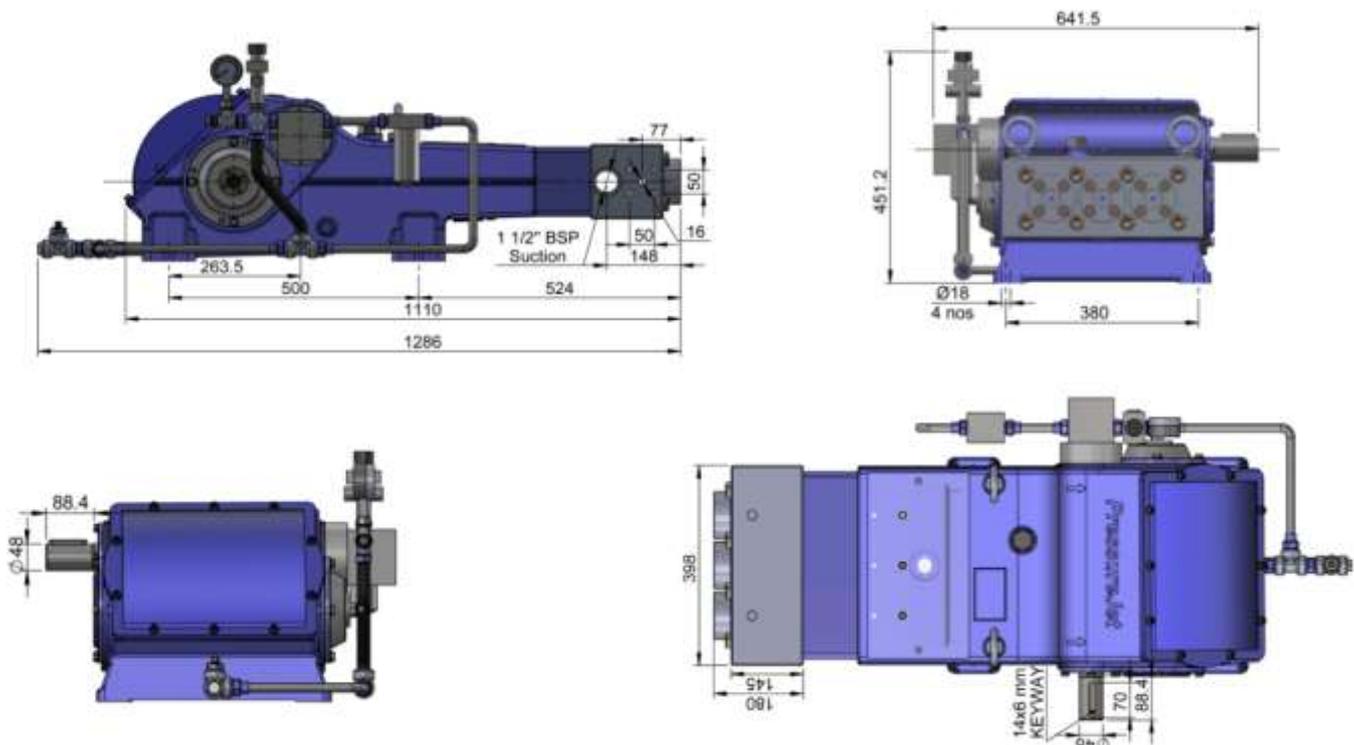
High Pressure Triplex Plunger Pump KDD Series Catalogue

Model Selection Chart

Model	SPM	Flow Rate in LPM (GPM)	Max. Rated Pressure in Bar (PSI)		
			100 HP	120 HP	150 HP
KDD-20-75	435	30 (7.93)	1250 (18130)	1380 (20000)	-
KDD-20-95	500	43 (11.36)	900 (13053)	1000 (14503)	1380 (20000)
KDD-22-75	435	37 (9.78)	1000 (14503)	-	-
KDD-22-95	500	52 (13.75)	750 (10877)	880 (12763)	1100 (15954)
KDD-24-95	500	62 (16.40)	650 (9427)	750 (10877)	950 (13778)
KDD-26-95	500	75 (19.81)	500 (7252)	600 (8702)	800 (11603)
KDD-28-95	500	86 (22.72)	450 (6527)	525 (7614)	660 (9572)
KDD-30-95	500	100 (26.42)	380 (5511)	460 (6672)	575 (8340)

Note: All flow is based on 100% volumetric efficiency. Actual flow will be $\geq 92\%$.

Dimension



Note: All dimensions are in mm & weight of bare pump is 410 Kg approx.

Salient Features

- Pressure packing design with integrated cooling systems for long life of seal.
- In-built gear box.
- In line suction delivery line.
- Forced feed lubrication system. (For more details, please [click here](#))

Technical Specifications

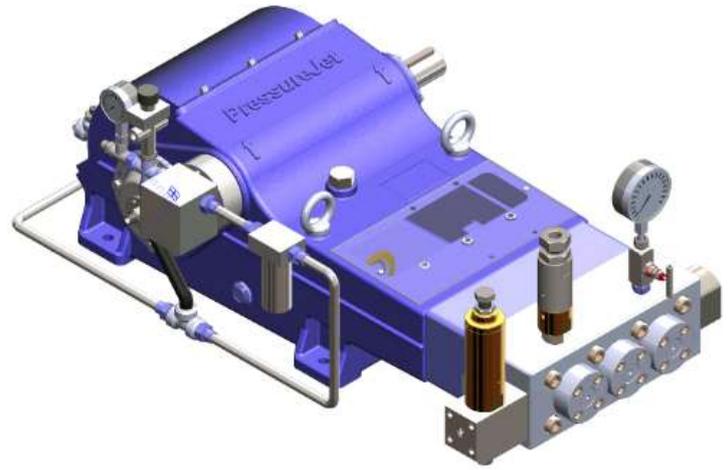
- Stroke length: 95 mm & 75 mm
- Max. plunger speed: 1.58 m/sec. @ 500 SPM
- Plunger force: 43 KN (4396 kgf)
- Inlet pressure min.-max.: 5-7 Bar (Booster pump flow require minimum 1.5 times of rating flow)
- Oil type: Gear oil 220
- Oil capacity: 12 Litres.
- Max. permissible oil temp.: Room temp.+ 50°C
- Max. inlet water temp.: 5°C to 43°C
- Inlet connection: 1 1/2" BSPF
- Outlet connection: 1/2" BSPF

Types of Systems

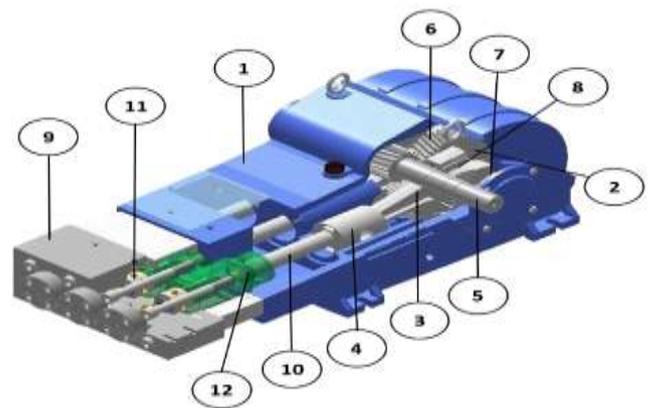
- Skid mounted system with electric motor and diesel engine
- Trolley mounted system with electric motor and diesel engine
- Road going trailer with electric motor and diesel engine
- All unit available in four side cover or canopy on request

Application

- Hydro Jetting
- Hydro Blasting
- Hydro Test
- Tank & Reactor cleaning



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. Piston (Cross head)

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.

8. White Metal Bearing

Antifriction bearings for long life of crankshaft.

• **Fluid End**

9. Pump Head

Pump Head made of high Resistance, **forged Stainless steel heat treated with chemical and UT tested.**

10. Plunger

Primarily composed of **Solid Ceramic**. Surface roughness is extremely good for long life of the plunger seal i.e. **<0.05 Ra.**

11. Complete Valve

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

12. 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.

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