

High Pressure Triplex Plunger Pump KB Series Catalogue

Model Selection Chart (530 SPM)

Model	Flow Rate in LPM (GPM)	Max. Rated Pressure in Bar (PSI)			
		60 HP	75 HP	100 HP	120 HP
KBA-22	45 (11.90)	500 (7251)	625 (9064)	-	-
KBA-24	52 (13.75)	430 (6236)	530 (7687)	720 (10442)	-
KBB-26	62 (16.40)	360 (5221)	450 (6526)	600 (8702)	745 (10805)
KBB-28	70 (18.51)	310 (4496)	375 (5438)	510 (7396)	660 (9572)
KBB-30	80 (21.16)	270 (3916)	330 (4786)	450 (6526)	580 (8412)
KBB-32	90 (23.80)	240 (3480)	300 (4351)	400 (5801)	515 (7469)
KBB-36	115 (30.42)	190 (2702)	230 (3270)	315 (4568)	400 (5801)
KBB-40	145 (38.35)	150 (2175)	185 (2683)	250 (3625)	320 (4641)

Note:

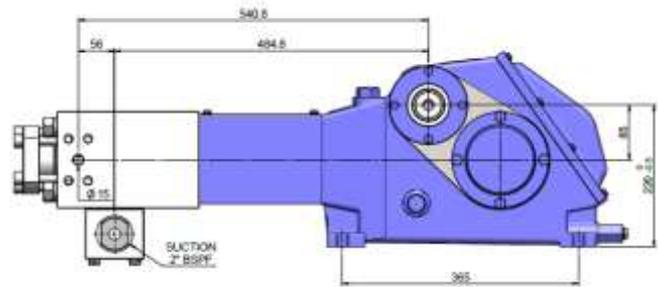
1. All flow is based on 100% volumetric efficiency. Actual flow will be $\geq 85\%$.
2. Max. SPM is 530 with 1500 RPM motor (Gear ratio-2.75:1) & Max. SPM is 530 with 1800 RPM motor (Gear ration-3.4:1)

Dimension

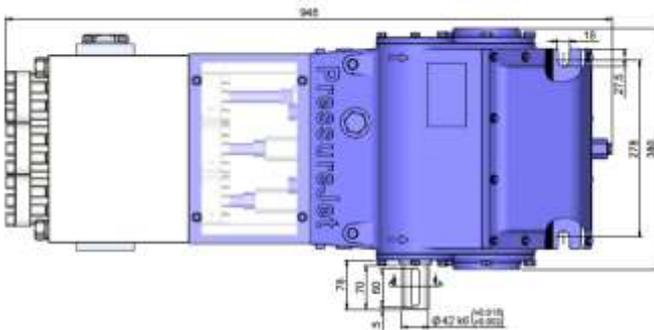
KBA Series Bare Pump Dimensions



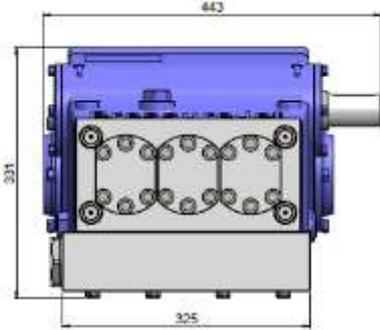
KBA Bare Pump



KBA Bare Pump Side View



KBA Bare Pump Top View

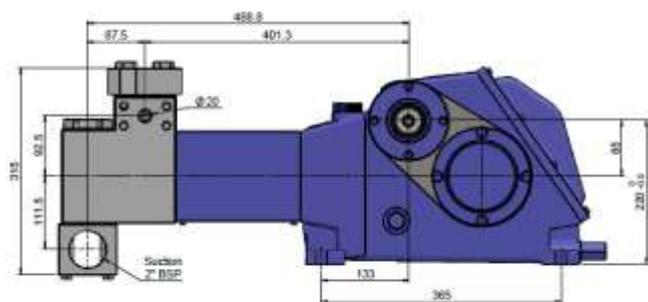


KB Bare Pump Front View

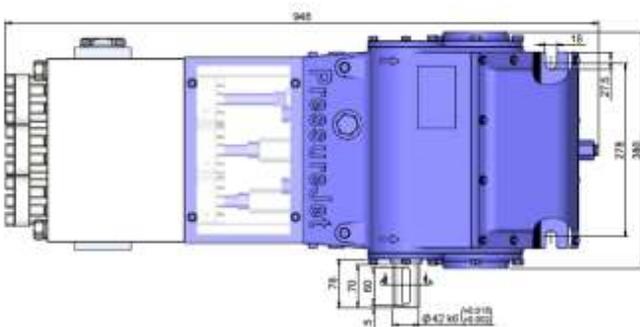
KBB Series Bare Pump Dimensions



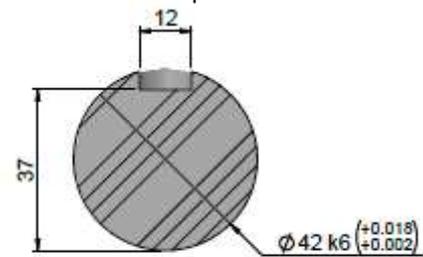
KBB Bare Pump



KBB Bare Pump Side View



KBB Bare Pump Top View



SECTION A-A

KB Crankshaft Key way

Note: All dimensions are in mm & weight of bare pump is 270 Kg approx.

Salient Features

- In-built gear box.
- Forced feed lubrication system. (For more details, please [click here](#))
- Available in 8 versions with two type of head.

Technical Specifications

- Stroke length: 75 mm
- Max. plunger speed: 1.32 m/sec. @ 530 SPM
- Plunger force: 31.28 KN (3190 kgf)
- Inlet pressure min.-max.: 2-3 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: 1/2" BSPF (For KBA) and 3/4" BSPF (For KBB)

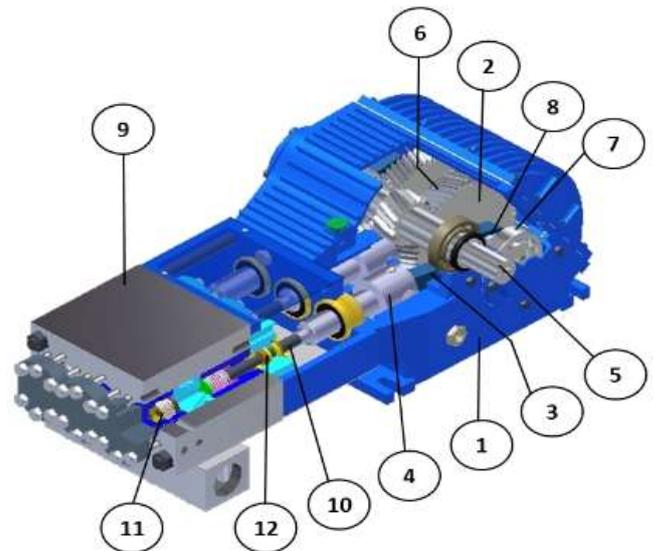
Types of Systems

- 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
- Sewer Jetting

Material of Construction



• Power End

1. **Main body (Crank case)**

Gray cast iron IS 210-1993-Gr. FG26D (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

Forged Alloy Steel Pinion shaft, nitride hardened and precision ground for extremely long life and durability. **Surface roughness is extremely good i.e. <0.3 Ra & 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 **Tungsten coated.** Surface roughness is extremely good for long life of the plunger seal i.e. **<0.1 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 for high compressive & tensile strength ensure effective sealing.

Contact us

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