KMT Aqua-Dyne Pumps Are Used Worldwide For These Water Blasting Applications:

- Marine Ship/Dock Cleaning
- Oilfield Hydrostatic Testing & Pipe Cleaning
- Mining Unclog Machinery
- Automotive Paint Booth Cleaning
- Aviation Clean Fluids on Runways
- Power Station Nuclear Decontamination

...and MUCH MORE!

KMT Aqua-Dyne Bare Shaft Pumps Series 500

(Power Ratings: 300-500 HP/224-373 kw)

For Maximum Water Blasting Productivity

KMT Aqua-Dyne Bare Shaft Pumps The POWER Inside Every PUMPING UNIT!

The key to KMT Aqua-Dyne's long pump life and hundreds of hours of trouble-free operation are low load packing, special filtration, a closed loop non-drip cooling and water lubrication system for alumina ceramic or tungsten carbide plungers.

The individual lightweight suction and discharge manifolds are easily removed for routine maintenance, and field changing the packing or plungers takes five minutes with no special tools required.

Unique VALVE-IN-LINE Fluid End

- Unique VALVE-IN-LINE Fluid End Design Provides Higher Volumetric Efficiency For Increased Productivity & Lower Operating Costs.
- Superior Design Of The Fluid End Delivers Up To 15% Increase In Productivity, higher volumetric efficiency, lower maintenance, quick packing changes and low initial cost over conventional fluid ends available.

Fluid End

Fluid Cylinders – Carbon steel is standard, other materials available to suit application.

Valve & Seats – Proprietarily treated stainless steel in-line valve system. All valves may be reconditioned by surface grinding.

Plungers – Non-scoring ceramic.

Packing – V-Rings of advanced polymer material are self adjusting, giving long service when used with non-scoring ceramic plungers.

Lubrication – Plungers and packing are non-drip, closed loop pressure lubricated by fluid from suction manifold. No external lubrication is necessary.

Manifolds – Individual light weight suction and discharge manifolds are easily removable for simple maintenance. Different materials are available to suit applications.

Power End

Power Frame – High strength grey iron alloy casting with sturdily ribbed wall sections.

Crankshaft – High strength ductile iron, may extend from either side. Rifle drilled for forced oil lubrication of connecting rod.

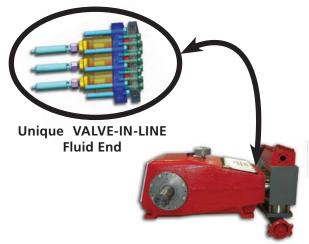
Crankshaft Bearings – Heavy duty bearings.

Crossheads – Cylindrical type high strength alloy castings. Crosshead wristpins are hardened & ground steel equipped with double roller bearings. Extension rods are highly polished stainless steel to eliminate corrosion and weepage.

Lubrication – Power end parts are splash lubricated.

Connecting Rods – High strength, solid section, ductile iron.

Oil Wiper Seals – Self lubrication polymer.



*Bare Shaft Pumps are available in Custom & Standard Pumping Unit Packages





SERIES 500 SPECIFICATIONS

Pressure & Volume are based on 100% Volumetric & Mechanical Efficiency.

SERIES 500 PUMPS							
FLUID END SERIES	PLUNGER DIAMETER INCHES (mm)	MAXIMUM PRESSURE PSI (bar)	FLOW AT POWER GAL/MIN. (LITER/MIN.)				
			300 HP (224 kw)	350 HP (261 kw)	400 HP (298 kw)	450 H P (335 k w)	500 H P (373 k w)
НР	1 1/4 (31.75)	20,000 (1379)	22.50 (102.29)	25.66 (116.65)			
	1 3/8 (34.92)	20,000 (1379)	22.50 (102.29)	26.25 (119.33)	30.00 (136.38)	31.05 (141.16)	
	1 1/2 (38.1)	20,000 (1379)	22.50 (102.29)	26.25 (119.33)	30.00 (136.38)	33.75 (153.43)	36.95 (167.98)
	1 5/8 (41.27)	20,000 (1379)	22.50 (102.29)	26.25 (119.33)	30.00 (136.38)	33.75 (153.43)	37.50 (170.48)
	1 3/4 (44.45)	19,125 (1319)	23.53 (106.97)	27.45 (124.79)	31.37 (142.61)	35.29 (160.43)	39.22 (178.30)
	2 (50.8)	14,642 (1009)	30.73 (139.70)	35.86 (163.02)	40.98 (186.30)	46.10 (209.57)	51.22 (232.85)
	2 1/4 (57.15)	11,569 (798)	38.90 (176.84)	45.38 (206.30)	51.86 (235.76)	58.34 (265.22)	64.83 (294.72)
LP	2 3/4 (69.85)	6,000 (414)	75.00 (340.95)	87.50 (397.78)	100.00 (454.61)	112.50 (511.43)	124.19 (564.58)
	3 (76.2)	6,000 (414)	75.00 (340.95)	87.50 (397.78)	100.00 (454.61)	112.50 (511.43)	125.00 (568.26)
DIRTY WATER	3 (76.2)	4,000 (276)	112.50 (511.43)	131.25 (596.67)	147.80 (671.91)		
	3 1/2 (88.9)	4,000 (276)	112.50 (511.43)	131.25 (596.67)	150.00 (681.91)	168.75 (767.15)	187.50 (852.39)
	5 1/2 (139.7)	1,500 (103)	300.00 (1364)	350.00 (1591)	397.41 (1806.66)		

Rated Power: Up to 500HP (373 kw)

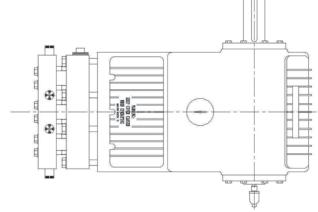
Number of Cylinders: 3

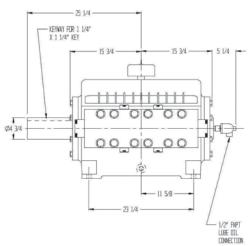
Plunger Stroke: 3.5" (88.9 mm)

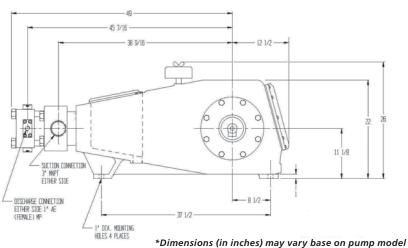
Plunger Load: 32,010 Lbs (14519 kg)

Oil Capacity: 9 Gallons (40.91 L)











KMT Aqua-Dyne Inc.