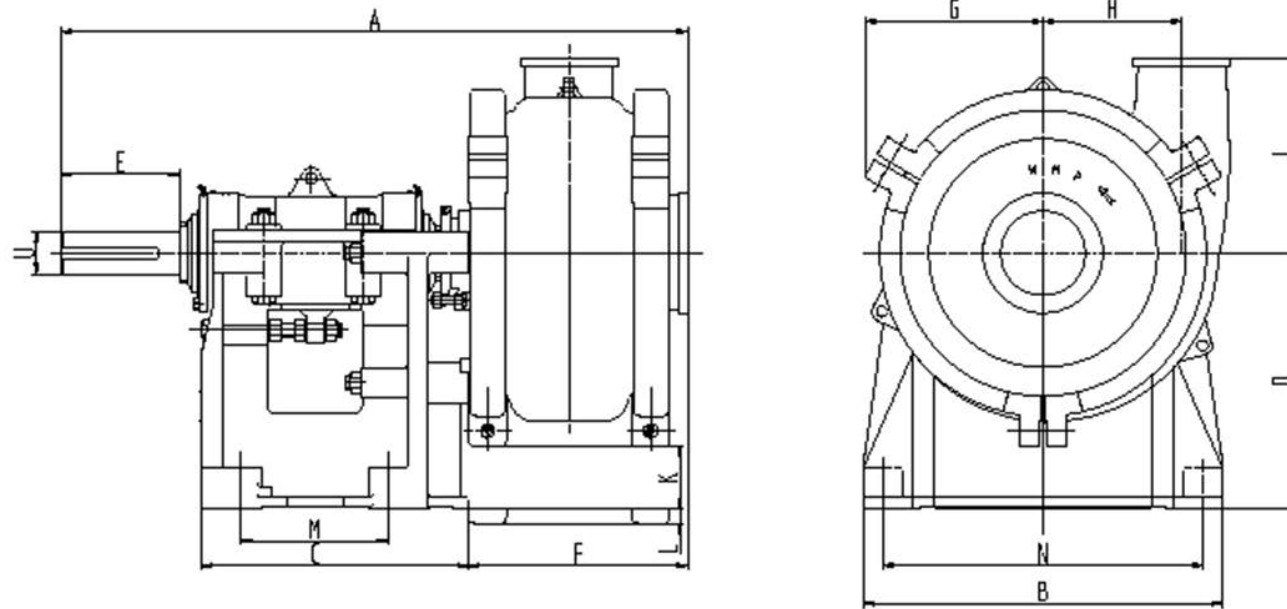


OUTLINE DIMENSIONS



Atlas WMP pump outline dimensions

pump model	A	B	C	D	U	E	F	G	H	J	K	L	M	N
3X2C-WMP	731	406	311	254	42	121	244	202	128	203	36	-	175	356
4X3CC-WMP	802	406	311	254	45	123	307	223	149	216	15	-	175	356
4X3D-WMP	944	492	364	330	65	164	307	223	149	216	91	-	213	432
6X4DD-WMP	1042	492	364	330	60	165	457	315	229	351	-	6	213	432
6X4E-WMP	1207	622	448	457	80	222	464	315	229	351	121	-	257	546
8X6E-WMP	1491	622	448	457	80	222	546	424	331	465	-	2	257	546
8X6F-WMP	1491	857	635	610	100	281	522	424	331	465	150	-	349	762
10X8F-WMP														
12X10F-WMP														



ATLAS PUMP INDUX®

Slurry pumping solutions

WMP

Medium Abrasion Slurry Pump

Mining | Power Plant | Coal | Metallurgy | Chemical



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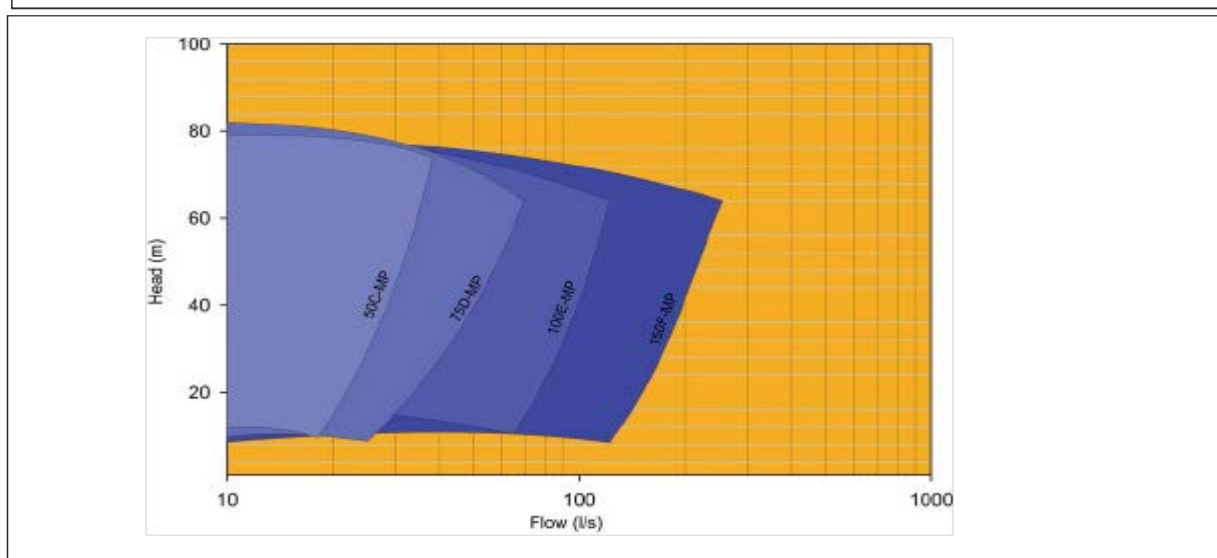
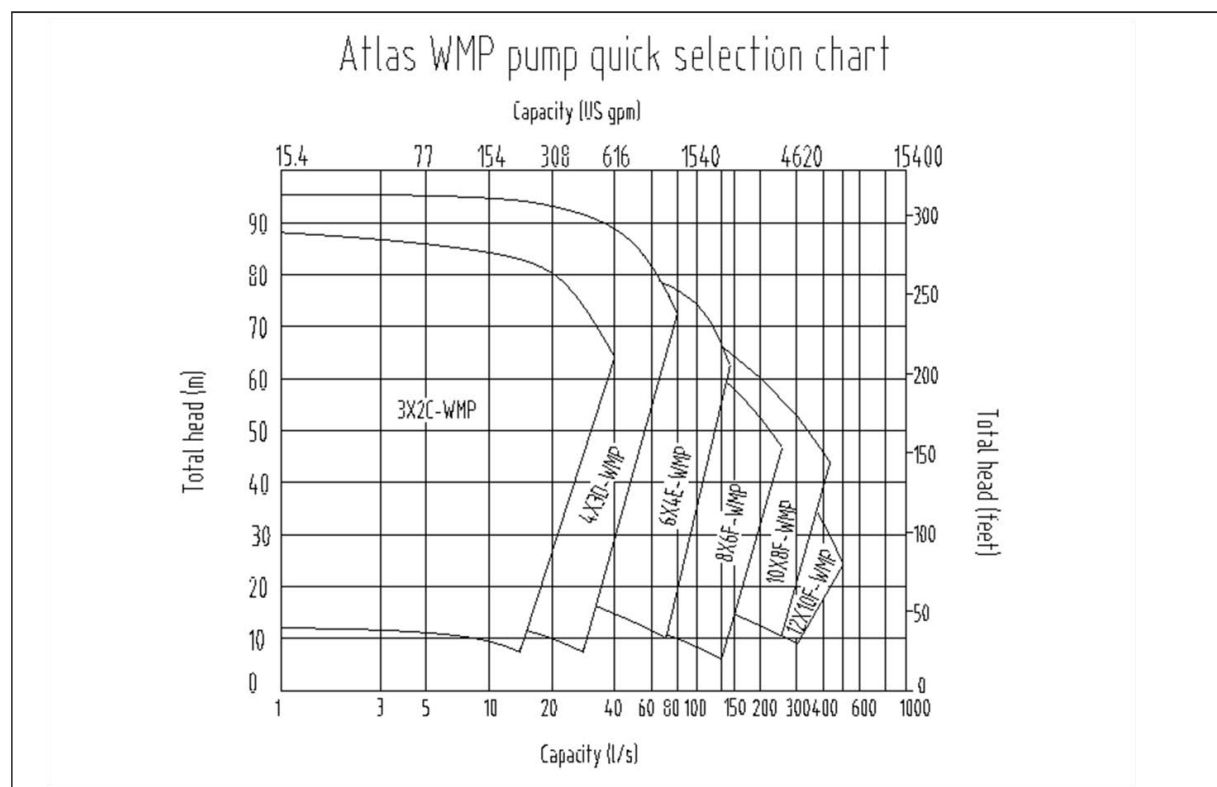


WMP HEAVY DUTY SLURRY PUMPS

WMP medium abrasion slurry pumps are designed for some of the most difficult pumping applications for medium abrasive, high density or corrosive slurries. Extra thick sections added to the high wear point and with improved Impeller design ensures optimum performance, with assured long life and the need for minimal maintenance requirements.

- Pump Range: 2"-10"
- Capacity to: 1600m³/h
- Head to: 66m

QUICK SELECTION CHART



TYPICAL APPLICATIONS

Using of versatile wear-resistant and corrosion-resistant materials allows WMP series slurry pumps to service in various industries, such as mining mill discharge, delivery of tailings transfer applications, ash removal in power plants, FGD and coal washing in coal plant, etc., resulting in low operating costs, as well as minimized maintenance and down time. (Low cost of ownership)

Mineral processing

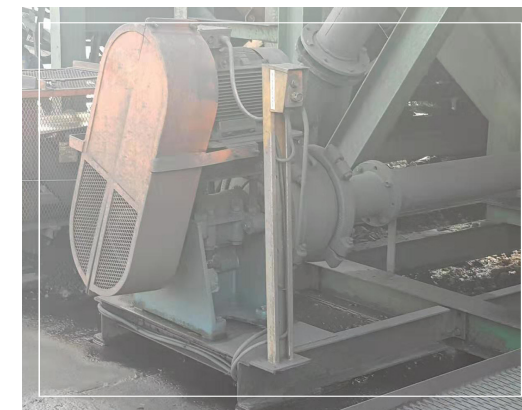
Rigid structural design and usage of hard wear-resistant material, together with low running speed, allows WMP series slurry pumps offers a wide range of applications in this area, especially suitable for mill discharge in coarse grinding of mineral and tailing transfer delivery.

Chemical industry

Usage of versatile wear-resistant and corrosion resistant metal, together with a mechanical seal, allows the WMP series slurry pumps' versatile applications in this area.

Flue Gas Desulphurization (FGD)

Usage of wear-resistant and corrosion-resistant metal, which are specially developed for the corrosive slurries containing chloride ions, allows the wide versatile application of the WMP series slurry pumps in this area.



Coal washing

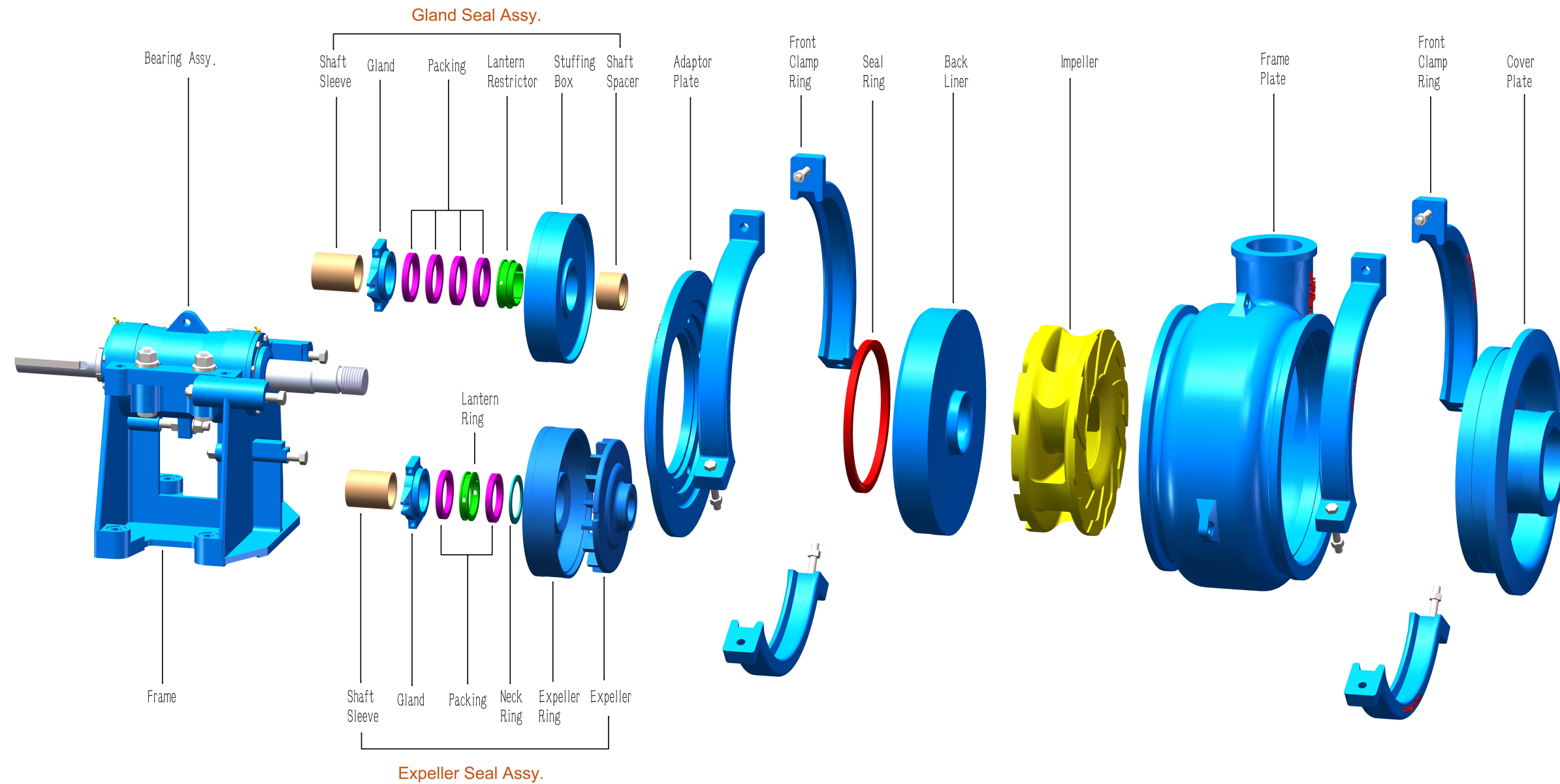
In the process of coal washing, WMP series slurry pumps are widely used in delivery of medium abrasive heavy media and concentrated underflow media.

Metallurgy

Usage of versatile wear-resistant materials and abrasive structural design, along with a special cooling system, ensures the bearings to run at a low temperature while delivering high temperature media slurries, allowing its wide applications in the delivery of steel slag and clinker.



STRUCTURES & FEATURES



Pump Features

Single stage, single suction, overhanging shaft, centrifugal, single casing horizontal pump.

Material:

Shaft sleeve: Ceramic, tungsten carbide or other hard materials are optional for coating, to increase wear resistance.

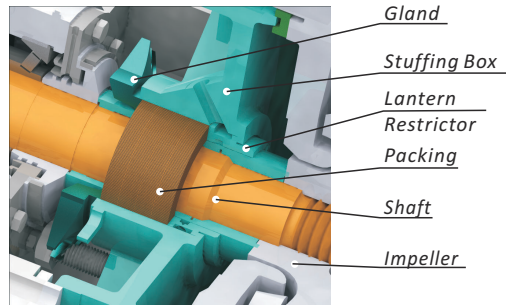
Bearing Assembly- Grease Lubrication are optional depend on the usage.

Seal options- Packing Seal, expeller (centrifugal or dynamic) seal and mechanical seals are optional to fit different applications.

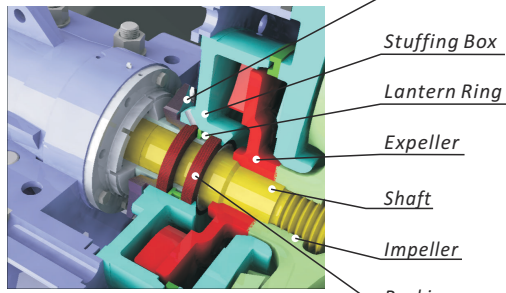
Part design:

Impeller- Multiple vane impeller types for diverse applications to get achieve the best performance: High efficiency, High efficiency with lower NPSHr, large particles, enhanced performance, flow reducing, recessed eyes are available.

SHAFT SEALS



Packing Seal



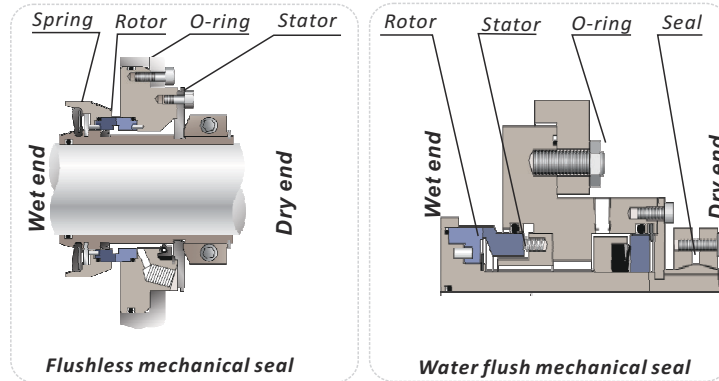
Expeller Seal

For more details, please consult Atlas.

Packing seal – Most popular type of seal. Clean water at a certain pressure being injected into the packing through the lantern restrictor, preventing leakage from casing. Simple structure, easy maintenance and low cost.

Expeller seal – The expeller generates a reverse centrifugal force to prevent the leakage. It can be used for as a single-stage pump or the first pump of a multiple pumps, in series, when the positive pressure at the suction side is larger than that at the discharge side by no more than 10%. No gland water is required needed.

Mechanical seal – Suitable for applications to prevent where no extra additional substance product is allowed to mixing with the fluid product being pumped, such as in the chemical or food industry.



Water flush seals are preferential unless field condition are inapplicable

MATERIAL OPTIONS

Hard Metals

Material Code	Material Description	Performance Comparison				Applicable Parts		Applications
		Hardness HRC	Anti-Brush	PH Value	Max. Particle Size	Impeller	Liner	
AT01	Medium-Cr Martensitic White Iron	≥55	0.9	3-12		●	●	Mud & slag applications.
AT03	Ni-Martensitic White Iron	≥56	0.8			●	●	Neutral water-sand slurry or lower impact load.
AT05	27% Cr White Iron	≥56	1.0 (Datum)			●	●	High impact load abrasion PH rate ranging from 5 to 12.
AT07	Chromium/Molybdenum	≥58	1.2			●	●	High impact load abrasion.
AT08	27% Cr White Iron	≥56	1.0			●	●	Same as AT05, suit for thick wall parts.
AT11	Low Alloy With Iron	38-42	0.7			●	●	Fine particles ,light abrasion.
AT12	30% Cr Hyper eutectic Chromium White Iron	≥62	1.5			●		Highly abrasive ,fine particles.
AT33	33% Cr Erosions & Corrosion Resistance White Iron	≥43	0.7			●	●	Acidic slurries like Phosphoric.
AT49	28% Cr Low Carbon White Iron	≥45	0.7			●	●	FGD process in power plant.
AT530	Super high-Cr White Iron	63-68	1.8			●		Severe abrasive ,fine particles.

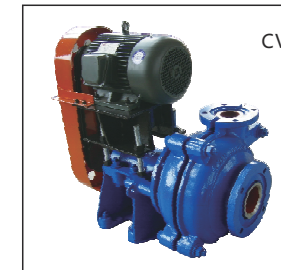
CLEAR WATER PERFORMANCE

CLEAR WATER PERFORMANCE

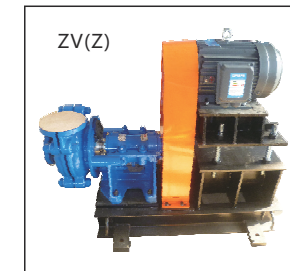
WMP Clear Water Performance

Model	Max.Motor Power Kw	Material		Clear Water Performance					
		Liner	Impeller	Capacity		Head H(m)	Pump Speed n(r/min)	Eff. η(%)	NPSHr (m)
				(m ³ /hr)	(l/s)				
3X2C-WMP	30	Metal	Metal	36~144	10~40	10~85	1100~3100	65	3~6
4X3CC-WMP	55	Metal	Metal	57.6~288	16~80	10~95	1000~2750	71	2~8
4X3D-WMP	60	Metal	Metal	57.6~288	16~80	10~95	1000~2750	71	2~8
6X4DD-WMP	110	Metal	Metal	90~396	25~110	12~64	800~1600	68	3~8
6X4E-WMP	120	Metal	Metal	90~396	25~110	12~64	800~1600	68	3~8
8X6E-WMP	120	Metal	Metal	288~900	80~250	9~62	500~1140	72	2~8
8X6F-WMP	260	Metal	Metal	288~900	80~250	9~62	500~1140	72	2~8
10X8F-WMP	260	Metal	Metal	300~1440	83.3~400	12~66	600~1100	73	3~12
12X10F-WMP	260	Metal	Metal	360~1800	100~500	8~50	500~1000	73	3~10

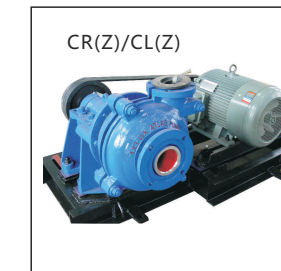
DRIVE ARRANGEMENTS



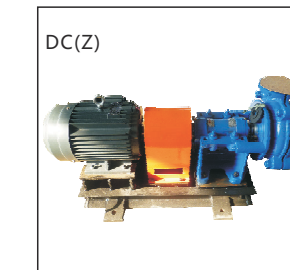
CV



ZV(Z)



CR(Z)/CL(Z)



DC(Z)