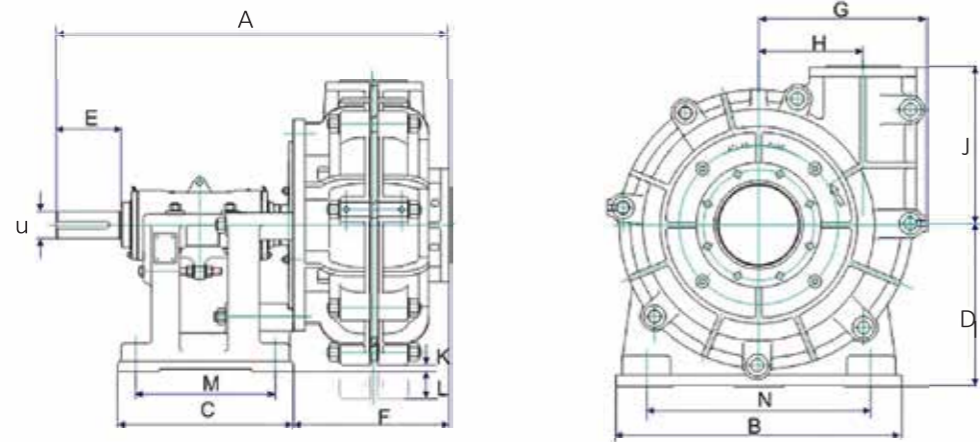


## OUTLINE DIMENSION



Pump Model	A	B	C	D	U	E	F	G	H	J	K	L	M	N	Weight (kg)
1.5×1C-WXH	759	406	311	254	42	121	306	270	194	254	—	11	175	356	318
3x2D-WXH	986	492	364	330	65	164	389	384	254	368	—	51	213	432	750
4×3E-WXH	1240	622	448	457	80	222	492	492	330	432	2	—	257	546	1250
6×4F-WXH	1556	857	635	610	100	279	584	616	413	546	26	—	349	762	2531
8x6T-WXH	2275	1150	1040	650	150	350	852	835	584	813	—	160	880	900	6586

All dimensions are in millimeter (mm)

**TIEC**  
GROUP

INDUX®  
**ATLAS**

**WXH**  
Heavy Duty Slurry Pump



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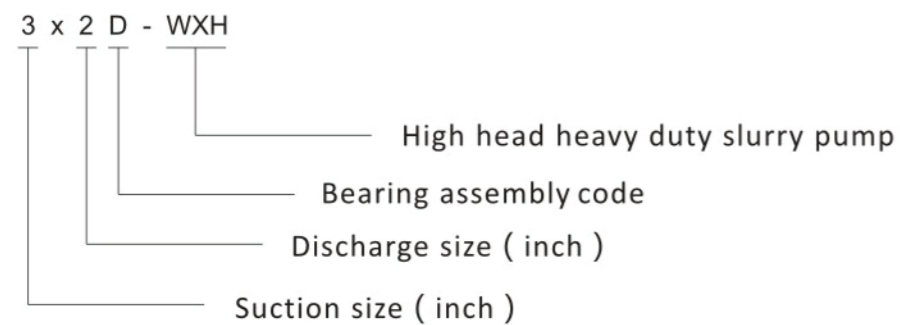


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## WXH HIGH HEAD HEAVY DUTY SLURRY PUMP

WXH pumps are designed for heavy duty applications require high head per stage at high pressures, suitable for long distance transportation or where other applications require more than one pump in series.

### Model Description



- Pump Range: 1" ~ 6"
- Capacity to: 1152m<sup>3</sup>/hr
- Head to: 98m

## CLEAR WATER PERFORMANCE

Model	Max.Motor Power Kw	Material		Clear Water Performance					
		Liner	Impeller	Capacity Q		Head H(m)	Pump Speed n(r/min)	Eff. η%	NPSH(m)
				(m <sup>3</sup> /hr)	(l/s)				
1.5x1C-WXH	30	M	M	16.2~34.2	4.5~9.5	25~92	1400~2200	20	2~5.5
3x2D-WXH	60	M	M	68.4~136.8	19~38	25~87	850~1400	47	3~7.5
4x3E-WXH	120	M	M	126~252	35~70	12~97	600~1400	50	2~5
6x4F-WXH	560	M	M	324~720	90~200	30~98	600~1000	64	3~8
8x6T-WXH	1200	M	M	576~1152	160~320	32~95	450~725	65	6~10

M means metal

## APPLICATIONS

Usage of versatile wear-resistant and corrosion-resistant materials allows WXH series slurry pumps to service in various industries, such as delivery of mining tailings, ash removal in power plant, flue gas desulphurization and coal washing in coal plant, etc. resulting in low operating cost, as well as minimized maintenance and downtime.

### Mineral Processing

Rigid structural design and usage of hard wear-resistant material, as well as big impeller diameter, oversized shaft and bearing, together with low running speed, allows WXH series slurry pumps for application in tailing delivery of high head.

### Flue Gas Desulphurization (FGD)

Usage of wear-resistant and corrosion-resistant metal and rubber, which are specially developed for the corrosive slurries containing chloride ion, allows the wide applications of the WXH series slurry pumps in this area.

### Coal Washing

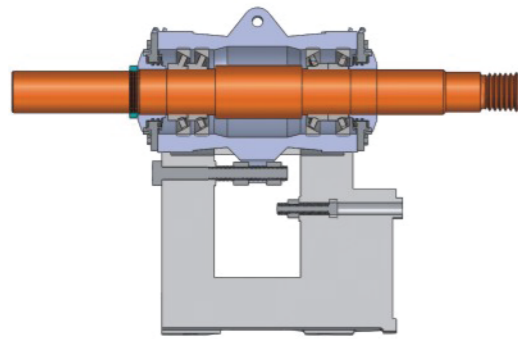
In the process of coal washing, WXH series slurry pumps are widely used at feeding position for pressure filter because of their high head.

### Metallurgy

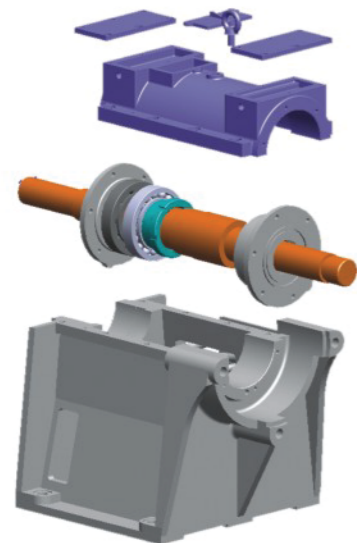
Usage of versatile wear-resistant materials and abrasive structural design, along with special cooling system, ensures the bearings to run at low temperature while delivering high temperature media, allowing its wide applications in delivery of clinker.



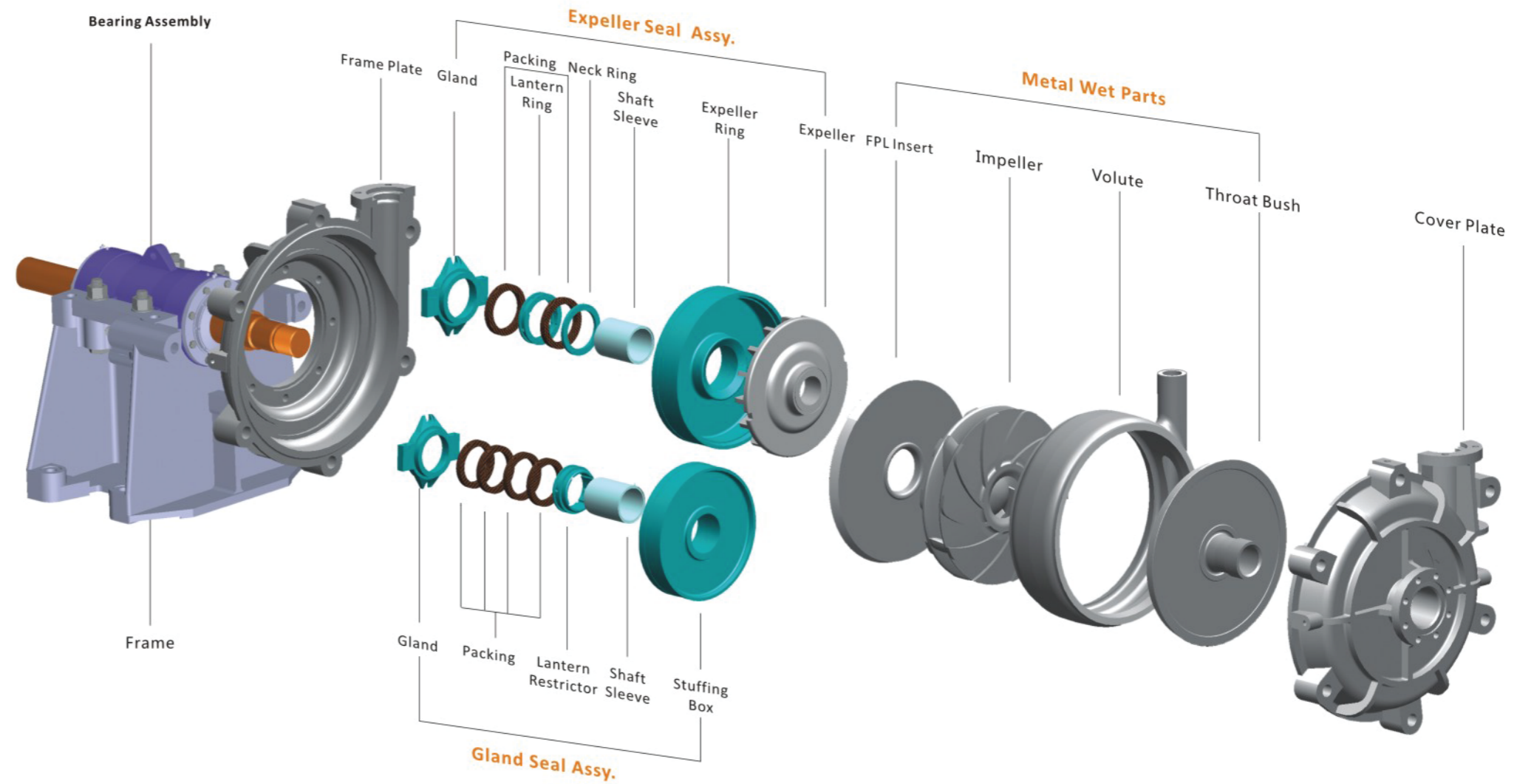
## STRUCTURE & FEATURES



Grease Lubrication Bearing Assembly



Oil Lubrication Bearing Assembly



### ■ Pump Features

Single stage, single suction, overhang shaft, centrifugal, double casing horizontal pump

### ■ Material:

Casing-Made of ductile Iron, ribs help casing to stand high pressure.

Wet Ends-Impellers, liners, volutes are made of high-chrome alloy to resist wear, corrosion, impact or erosion.

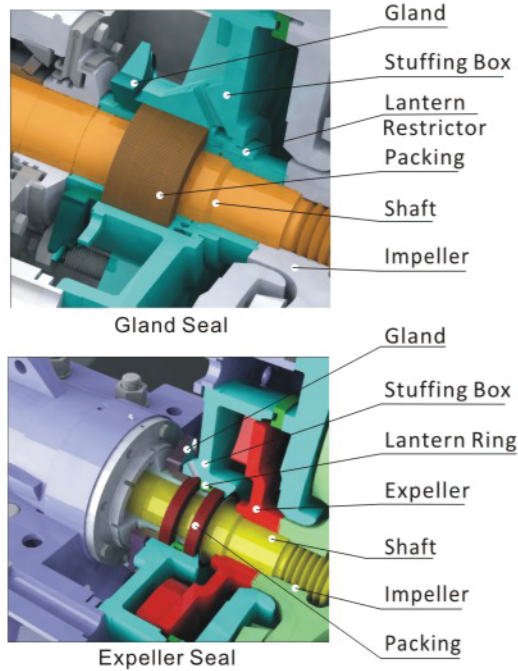
### ■ Bearing Assembly- Grease lubrication and oil lubrication are optional depending on the usage.

■ **Seal Options-**Gland seal, expeller( centrifugal or dynamic) seal and mechanical seal are optional to fit different application.

### ■ Part Design:

Impeller-Large diameter, low turning speed ,wide passage and recessed vanes help lower internal velocity to extend wear life.

## SEAL OPTIONS



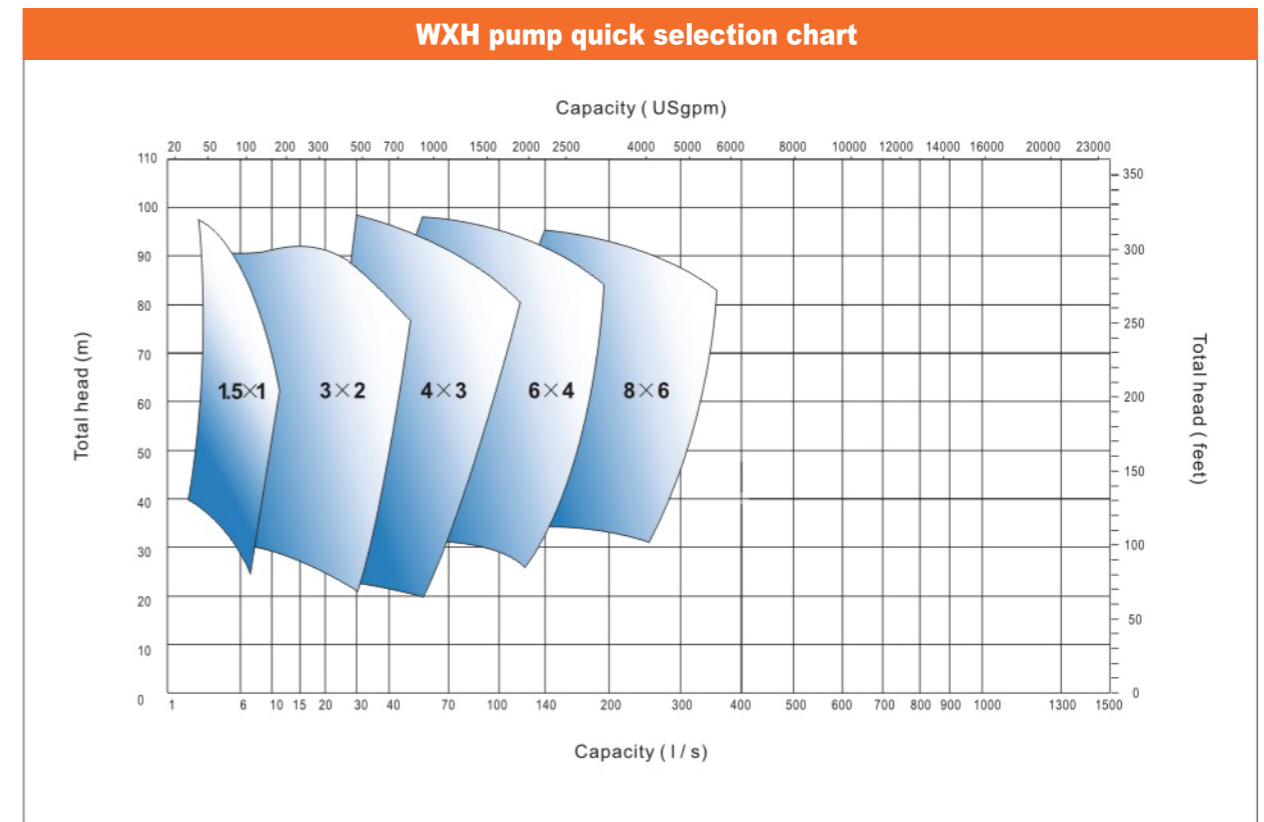
**Gland seal** – Most popular type of seal. Clean water at a certain pressure being injected into the packing through the lantern restrictor, preventing leakage from casing. Simple structure, easy maintenance and low cost, suitable for where expeller seal is unsuitable.

**Expeller seal** – The expeller generate a reverse centrifugal force to prevents the leakage. It can be used for single-stage pump or the first pump of multiple pumps in series when the positive pressure at suction side is larger than that at discharge side by no more than 10%. No gland water is needed, the slurry will not be diluted and the sealing effect is reliable, used in where dilution of slurry is not allowed.

**Mechanical seal** – Suitable for applications where no extra substance is allowed to mix with the fluid being pumped, such as chemical or food industry.

For more details, please consult TIIEC.

## QUICK SELECTION CHART



## DRIVE ARRANGEMENT



CV



ZV(Z)



CR(Z)/CL(Z)



DC(Z)

## MATERIAL OPTIONS

### Hard Metals

Material Code	Material Description	Performance Comparison				Applicable Parts		Applications
		Hardness HRC	Anti-Brush	PH Value 3 7 12	Max. Particle Size	Impeller	Liner	
AT01	Medium-Cr Martensitic White Iron	≥55	0.9			●	●	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.

Consult TIIEC for unlisted materials