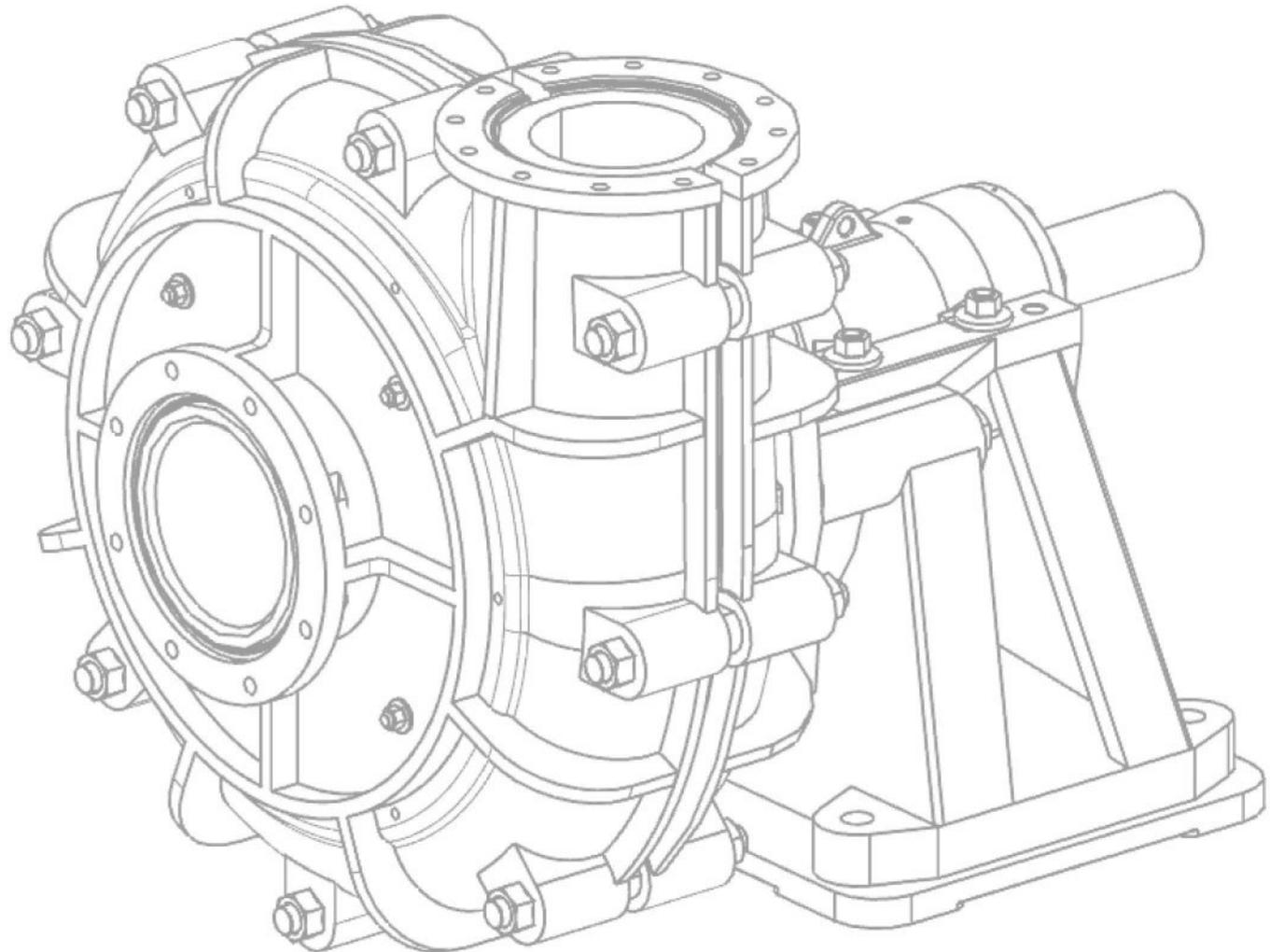




Centrifugal Slurry Pumps





## Company Profile

Shijiazhuang Minerals Equipment Co., Ltd, also known as CNSME®, is a professional Slurry Pumps and parts manufacturer based in the city of Shijiazhuang, Hebei, China. With nearly 20 years of experience dedicated to the pump industry, we provide expert advice, reliable products, and responsible technical service to our customers from all over the world.

We stock an extensive range of pumps and main spare parts to ensure a shorter lead time and faster delivery to the user's site to reduce the downtime to its minimum and save the total ownership cost.

CNSME® is working its best to become one of the world class suppliers of trusted slurry pumps and parts to serve global mining, minerals processing, sand and aggregate and other related industrial sectors.



## Overview

The heavy duty AH(R) pump range is designed to perform continuous pumping of highly abrasive slurries. This range of pumps have been proved successful in processes from hydrocyclone feed to regrind, flotation and tailings in minerals processing plants as well as other industrial applications.

## Specifications

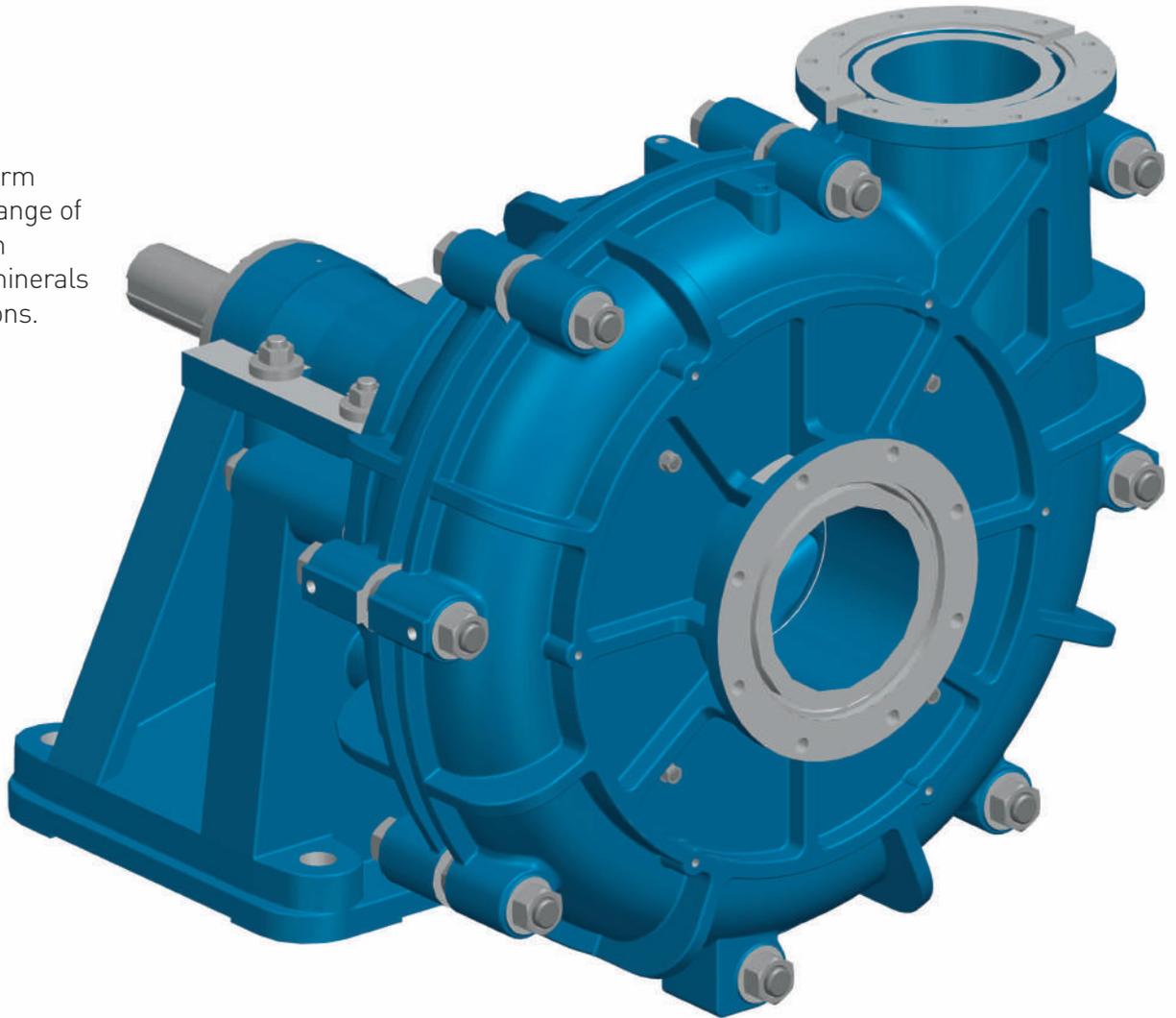
Discharge size range: 25mm to 450mm [1" to 18"]

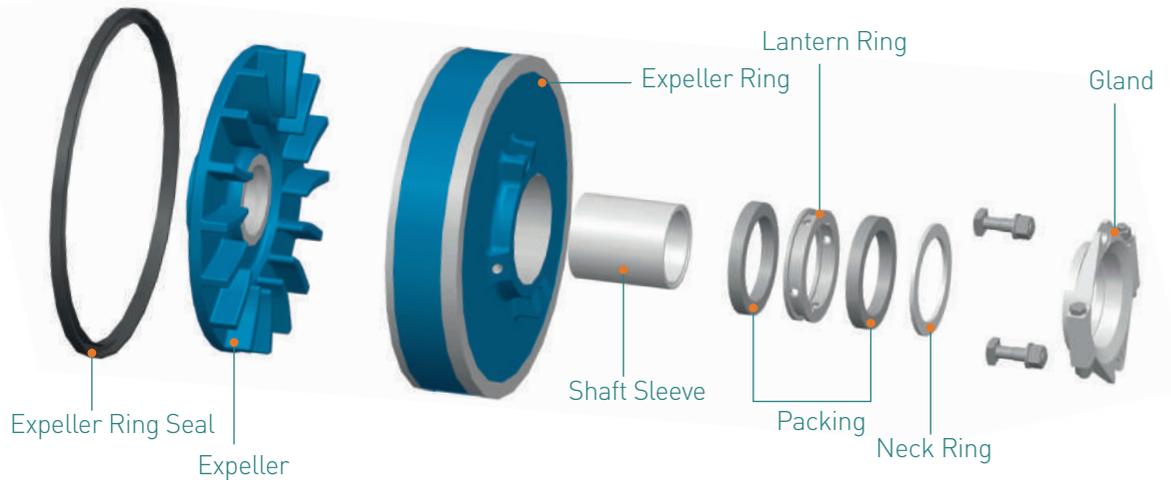
Flowrates to: 5000m<sup>3</sup>/hr [22,000GPM]

Heads to: 73m [240ft]

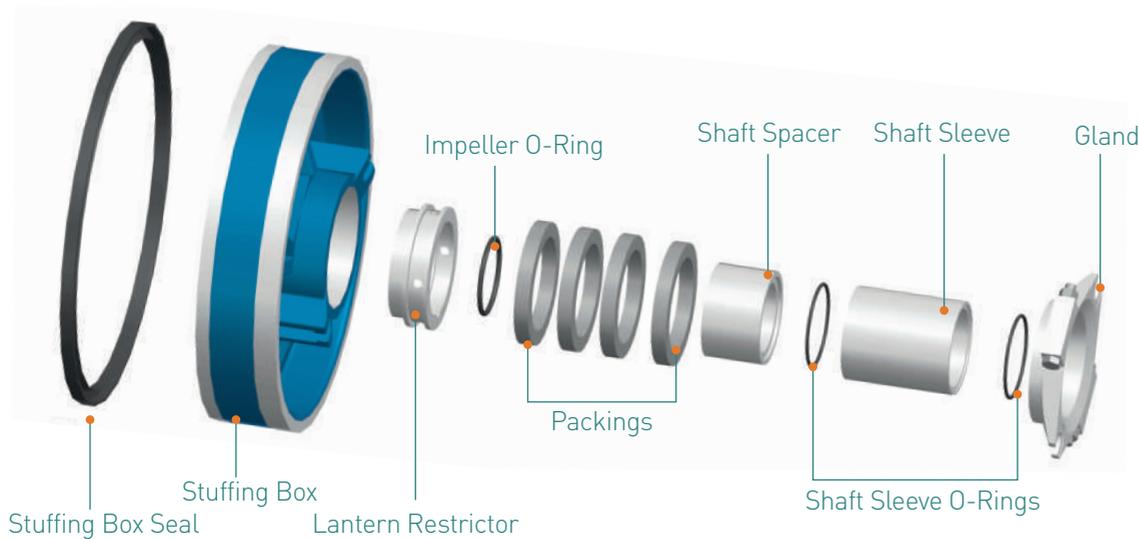
## Typical Applications

- Wet Crushers
- Mill Discharge
- Minerals Processing
- Tailings
- Cyclone Feeding
- Coal Preparation





**Figure 1:** Expeller Seal Assembly



**Figure 2:** Gland Seal Assembly

## Key Features

Heavy duty construction with through-bolt design provides ease of maintenance and minimal downtime

Large diameter, slow turning, high efficiency impellers designed to achieve maximum wear life and low operating costs

Cartridge-style bearing assembly allows for maintenance in a clean environment without removal of the pump, resulting in reliable operation and prolonged bearing life

Diverse selections of shaft seals tailored to each specific application

Expeller Seal Assembly -- Dry Seal: no need for flushing water (Figure 1)

Gland Seal Assembly -- Wet Seal: clean flushing water is necessary (Figure 2)

\*\*Improved "HS1" type Hi-Seal as Options to the traditional Expeller & Gland Seal assembly

Interchangeable wet-end parts between chrome alloys and elastomers (Figure 3) reduces overall maintenance costs

Upgraded technology of "WRT" type of impeller and throat-bush combination (Figure 4) designed to enhance efficiency, lower NPSHr and improve wear performance



**Figure 3:** High Chrome & Elastomer Wet-end Components

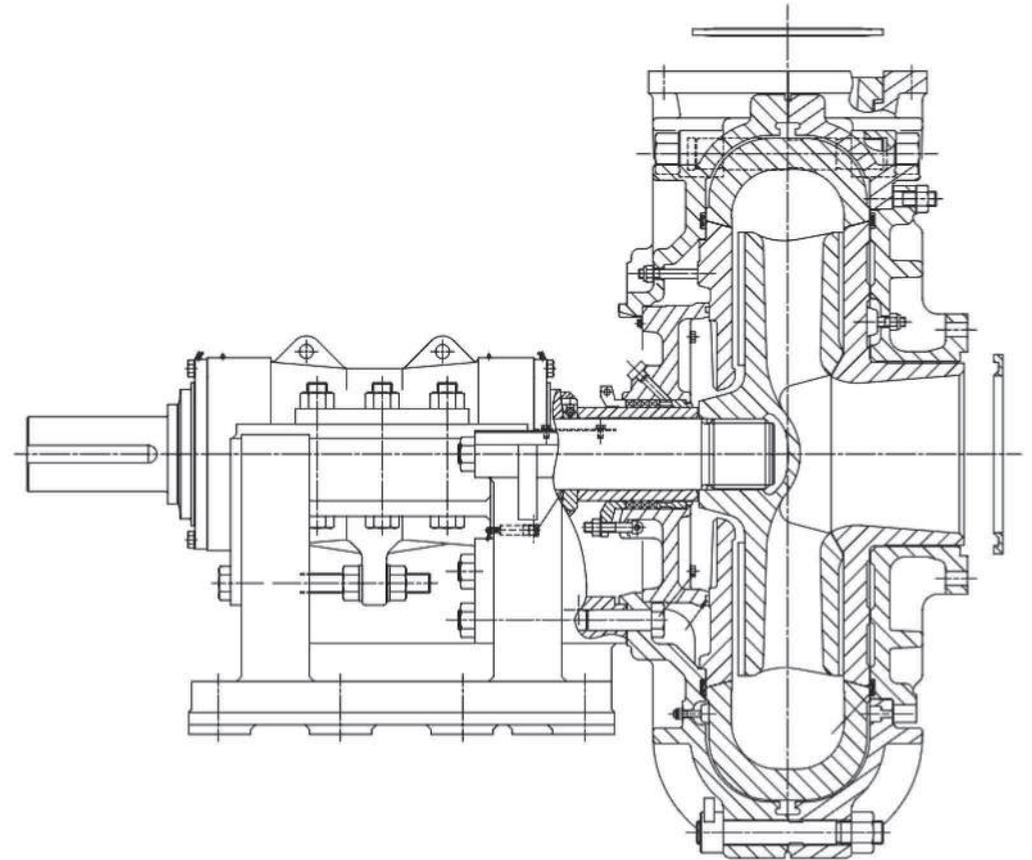
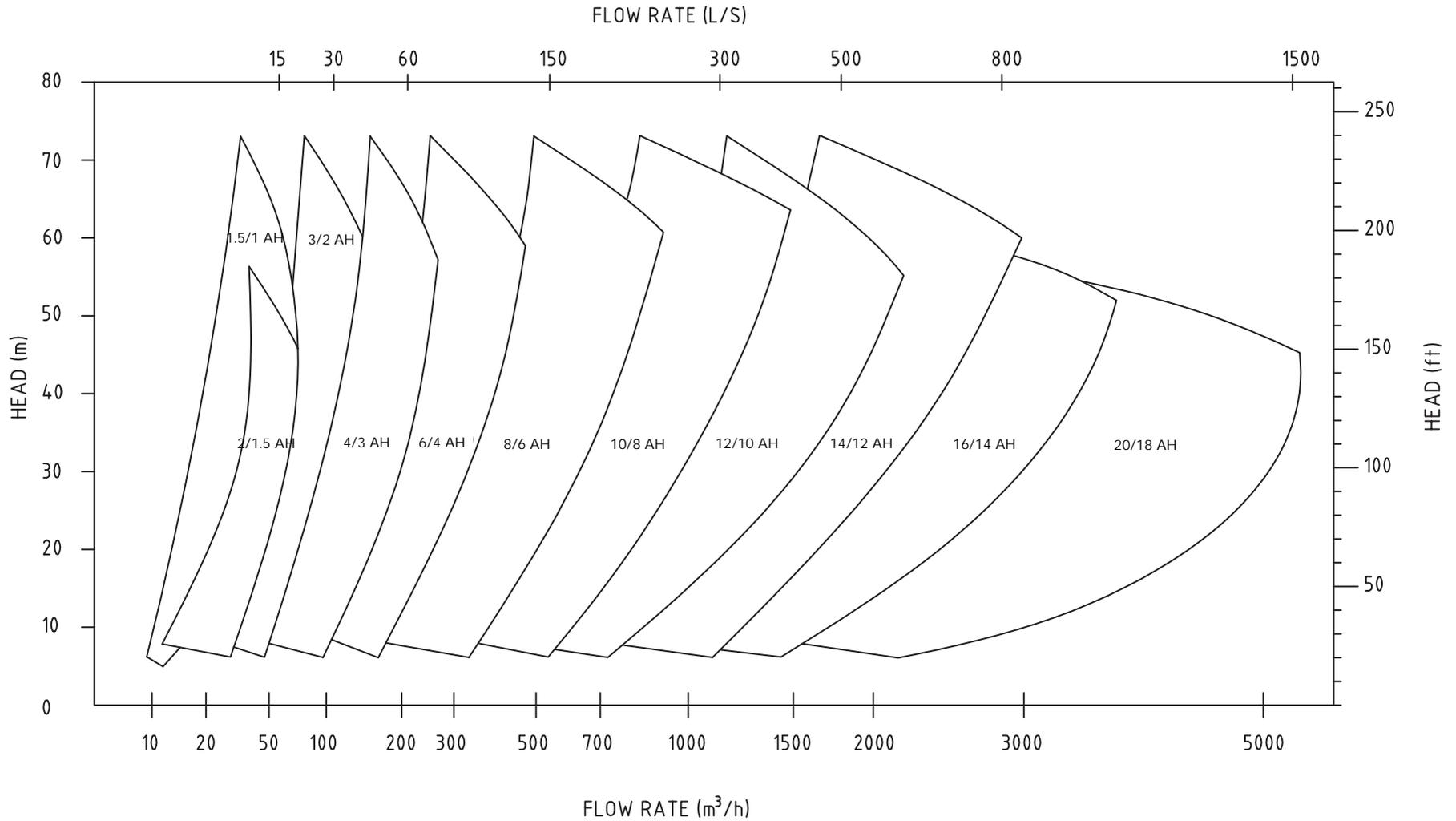


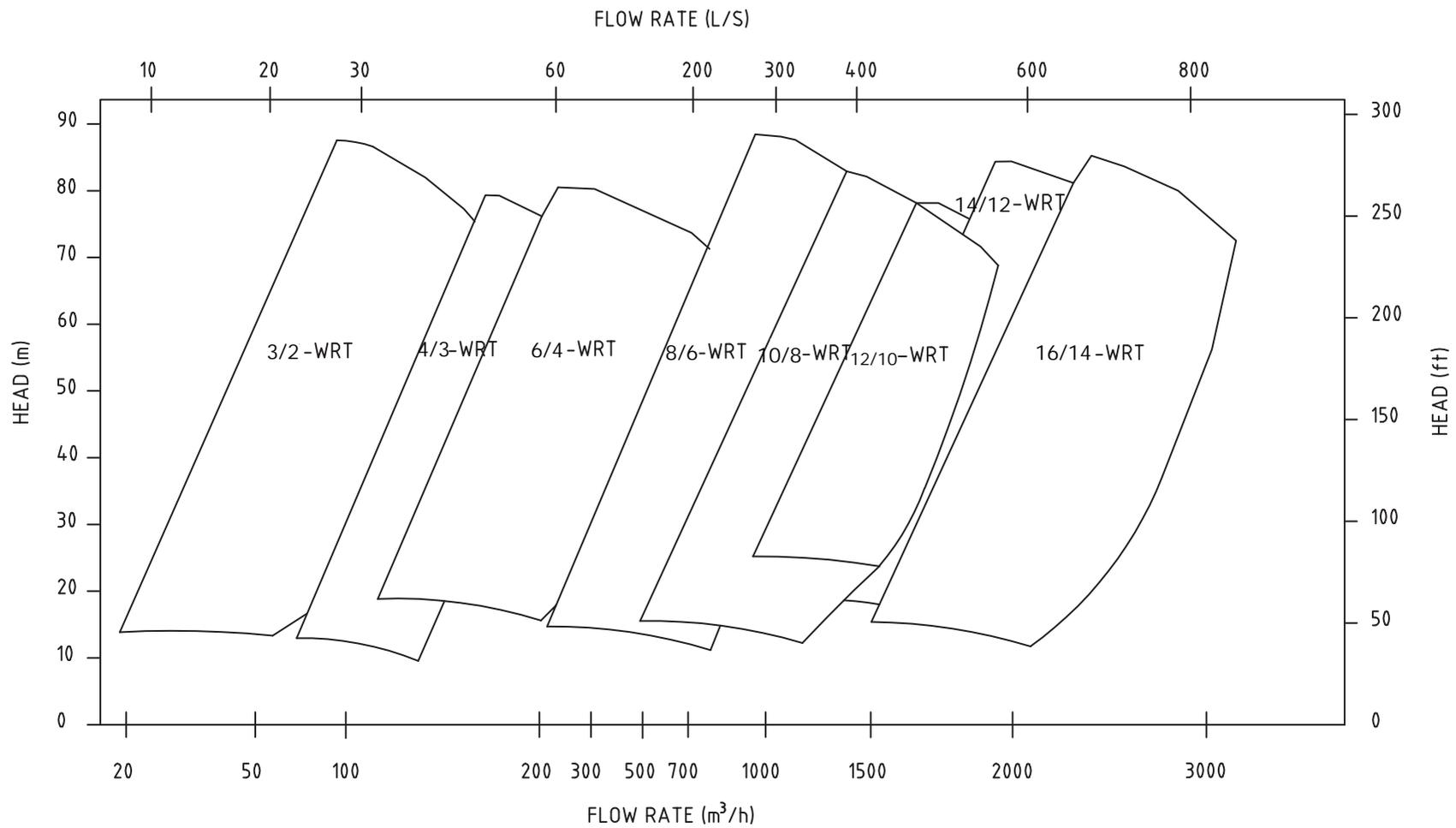
Figure 4: "WRT" Design of Impeller and Throatbush Combination

## AH(R) Series Performance Coverage for Quick Selection





## AH(R) with WRT Design Performance Coverage for Quick Selection





## AH Series Metal Slurry Pump Specifications

AH Series Metal Slurry Pump Specifications												
Pump	SxD	Allowable	Material	Clear Water Performance						Impeller		Weight
Model	(inch)	Max. Power (kw)		Capacity Q		Head	Speed	Max.Eff.	NPSH	No. of	Vane Dia.	
			Impeller	m3/h	l/s	H(m)	n(r/min)	%	(m)	Vanes	(mm)	(kg)
1.5/1B-AH	1.5×1	15	Metal (A05)	12.6-28.8	3.5-8	6-68	1200-4400	52	3.2~8	5	152	91
2/1.5B-AH	2×1.5	15		32.4-72	45920	6-58	1200-3200	45	3-8		184	118
3/2C-AH	3×2	30		39.6-86.4	45985	12-64	1300-3170	64	3~12		214	191
4/3C-AH	4×3	30		86.4-198	24-55	9-52	1000-2750	68	3~10		245	263
4/3D-AH	4×3	60									245	363
6/4D-AH	6×4	60		162-360	45-100	12-56	800-1800	70	2~12		365	626
6/4E-AH	6×4	120									365	728
8/6E-AH	8×6	120		360-828	100-230	10-61	500-1300	72	2~10		510	1473
8/6F-AH	8×6	260									510	1496
8/6R-AH	8×6	300									510	1655
10/8F-AH	10×8	260		612-1368	170-380	11-61	400-1000	70	2~12		686	3193
10/8ST-AH	10×8	560		612-1368	170-380	11-61	400-1000	70	2~12		686	3750
12/10F-AH	12×10	260		936-1980	260-550	7-68	300-900	80	2~8		762	3760
12/10ST-AH	12×10	560		936-1980	260-550	7-68	300~900	80	2~8		762	4318
14/12ST-AH	14×12	560		1260-2772	350-770	13-63	300-700	77	2~13		965	6409
16/14TU-AH	16×14	1200		1368-3060	380-850	11-63	250-550	79	3~10		1067	10000



## AH Series Rubber Slurry Pump Specifications

AH Series Rubber Slurry Pump Specifications											
Pump	S×D	Allowable	Material	Clear Water Performance						Impeller	
Model	(inch)	Max. Power (kw)	Impeller	Capacity Q		Head	Speed	Max.Eff.	NPSH	No. of	Vane Dia.
				m3/h	l/s	H(m)	n(r/min)	%	(m)	Vanes	(mm)
1.5/1B-AH	1.5×1	15	Rubber	10.8~25.2	3~7	7~52	1400~3200	50	3.5~7.5	3	152
2/1.5B-AH	2×1.5	15		25.2~54	7~15	5.5~41	1000~2600	50	2~5	5	180
3/2C-AH	3×2	30		36~75.6	10~21	13~46	1300-2500	66	3~10		214
4/3C-AH	4×3	30		79.2~180	22~50	5~34.5	800~1950	68	2~8		245
6/4D-AH	6×4	60		144~324	40~90	12~45	800~1350~	72	2~6		365
8/6E-AH	8×6	120		324~720	90~200`	7~49	400~1000	71	2~10		510
10/8ST-AH	10×8	560		540~1188	150~330	12~50	400~750	76	2~12		686
12/10ST-AH	12×10	560		720~1620`	200~450	7~45	300~650	81	2~8		762
14/12ST-AH	14×12	560		1152~2520	320~700	13~44	300~500	79	2~8	965	



## AH(R) Series Slurry Pump Spare Parts Basic NO.

PART NAME	BASIC NO.	1.5/1BAH	2/1.5BAH	3/2CAH	4/3CAH	6/4DAH	8/6EAH	10/8FAH	12/10STAH	14/12STAH	16/14TUAH	20/18TUAH
COVER PLATE	013	B1013	B15013	C2013	D3013	E4013	F6013	G8013	G10013	G12013	H14013	U18013-1
FRAME PLATE	032	B1032	B15032	C2032	CAM3032	DAM4032	EAM6032	G8032	G10032	G12032	H14032	U18032
IMPELLER	147	B1127	B15127	C2147	D3147	E4147	F6147	FAM8147	G10147	G12147	GAM14147	TU18147
VOLUTE LINER	110	B1110	B15110	C2110	D3110	E4110	F6110	G8110	G10110	G12110	H14110	U18110
THROATBUSH	083					E4083	F6083	G8083	G10083	G12083	H14083	U18083
FRAME PLATE LINER INSERT	041	B1041	B15041	C2041	D3041	E4041	F6041	G8041	G10041	G12041	H14041	U18041
EXPELLER	028	B028	B028	C028	D028	DAM028	EAM028	G028	SH028	SH028	TH028	TH028
EXPELLER RING	029	B029	B029	C029	CAM029	DAM029	EAM029	G029	G029	G029	H029	H029
STUFFING BOX	078	B078	B078	C078	CAM078	DAM078	EAM078	G078	G078	G078	H078	TU18078
GLAND ASSEMBLY	044	B044	B044	C044	C044	D044	E044	G044	G044	G044	H044	T044
PACKING RINGS	111	B111	B111	C111	C111	D111	E111	G111	G111	G111	H111	T111
SHAFT	073	B073M	B073M	C073M	CAM073M	DAM073M	EAM073M	FAM073M	SH073M	SH073M	TH073	TH073
BEARINGS	009	B009	B009	C009	C009	D009	E009	F009	S009	S009	T009	T009
SHAFT SLEEVE	075	B075	B075	C075	C075	D075	E075	FAM075	SH075	SH075	TH075/T076	TH075/T076
BEARING HOUSING	004	B004M	B004M	C004M	C004M	D004M	E004M	F004M	S004M	S004M	T004M	T004M
BEARING ASSEMBLY	005	B005M	B005M	C005M	CAM005M	DAM005M	EAM005M	FAM005M	SH005M	SH005M	TH005M	TH005M
BASE	003	B003M	B003M	C003M	C003M	D003M	E003M	FAM003M	ST003M	ST003M	TU003	TU003

AH(R) Series Slurry Pump Spare Parts(1)

			
Base	Bearing Assembly	Bearing Housing	Bearing
			
Shaft	Shaft Sleeve	Packing	Gland Assembly

AH(R) Series Slurry Pump Spare Parts(2)

			
Stuffing Box	Expeller Ring	Expeller	Throatbush
			
End Cover	Cover Plate Liner	Frame Plate Liner	Frame Plate Liner Insert

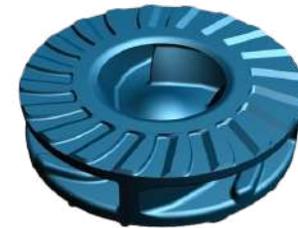
AH(R) Series Slurry Pump Spare Parts(3)



Three Vanes Open Impeller



Six Vanes Closed Impeller



WRT Impeller



Impeller



Impeller



Open Impeller

AH(R) Series Slurry Pump Spare Parts(4)



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