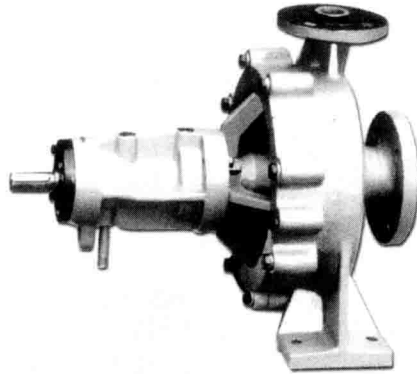


## ZTND SERIES AIR-COOLED HOT OIL PUMP



### I. Brief Introduction

With scientific construction and fine performance, it is used in transporting high temperature liquid without solid particles. And the corrosion-resistant degree and working temperature is depended on the material of the parts. (The material consists of three kinds: 1. HT200; 2. ZG230-450; 3. 1Cr18Ni9Ti, 0Cr18Ni12Mo2Ti.)

### II. Application Scope

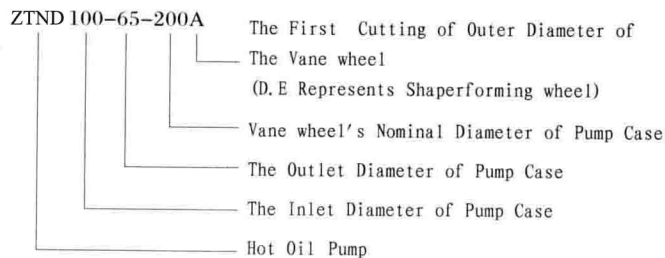
1. Petro-chemical Industry
2. Oil Industry
3. Synthetic-fibre Industry
4. Textile Dyeing And Printing Industry
5. Plastic And Rubber Industry
6. Papermaking Industry
7. Timber Processing Industry
8. Construction And Building Industry

Besides the above fields, the pumps are also proper in machinery manufacturing, food processing, medicine making and the circling system for oil supplying of the hot oil boiler, the circling system of the heating installation.

### III. Performance Scope of ZTND Hot Oil Pump

1. Capacity: 1 ~ 500m<sup>3</sup>/h
2. Head: 10 ~ 125m
3. Temperature: -20°C ~ 350°C

The Sense of The Type ZTND Hot Oil Pump: Set ZTND100-65-200A As The Example:



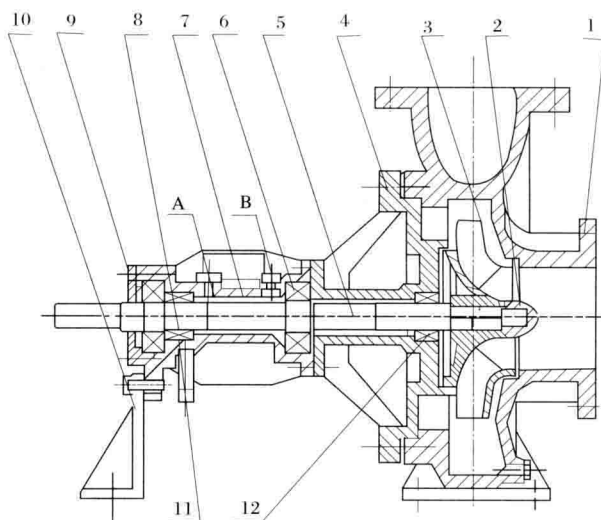
## IV. Construction

With the single grade swing construction, ZTND hot oil pump consists of two kinds: foot supporting and core-supporting. The entrance of the pump is axial absorbing, and core straight up for outlet. The pump and the driving motor are installed togetherly at the same seat through elastic coupling. And the whole machine group doesn't require cooling system.

The main parts include: Pump casing, Rotor, Bearing, Seal Parts. The pumps connects motor with tri-pawl elastic coupling.

On the whole, this pump reforms the traditional construction, choosing natural cooling type, reducing the volume, simplifying the construction and save carrying.

1. Pump Casing
2. Impeller Nut
3. Impeller
4. Pump Cover
5. Pump Shaft
6. Bearing
7. Bearing Casing
8. Oil-conducting Pipe
9. Bearing's Press Cover
10. Bear frame
11. Oil Seal
12. Packing Seal



The Constructure Diagram of Type ZTND Air-cooled Hot Oil Pump

## ZTND FUNCTIONAL DATA

Model	Capacity m <sup>3</sup> /h	Head m	Speed r/min	Power kW		$\eta$ % Efficiency	(Y) Motor
				Shaft-Power	Power		
15-15-100	3	10	2800	0.45	0.75	20	801
15-15-100A	2	10	2800	0.36	0.55	18	AO <sub>2</sub> -7122
15-15-100B	1	10	2800	0.2	0.37	15	AO <sub>2</sub> -7112
20-20-100	1	10	2800	0.09	0.37	26	AO <sub>2</sub> -7112
20-20-125	1.5	22	2800	0.22	0.75	30	801
40-25-160	10	28	2900	1.72	2.2	45	90L
25-25-160	3	27	2900	0.53	1.5	30	90S
32-32-160	6	28	2900	0.85	1.5	50	90S
50-32-160	12.5	30	2900	1.90	3.0	57	100L
50-32-200	18	40	2900	3.92	5.5	50	132S1
50-32-200A	16	32	2900	3.35	4	42	112M
50-32-250	12.5	80	2900	6.2	11	44	160M1

## ZTND FUNCTIONAL DATA

Model	Capacity m <sup>3</sup> /h	Head m	Speed r/min	Power kW		$\eta$ % Efficiency	( Y ) Motor
				Shaft Power	Power		
65-50-160	20	32	2900	3.17	5.5	55	132S1
65-40-200	30	48	2900	6.3	7.5	62	132S2
65-40-200A	25	35	2900	4.0	5.5	59	132S1
65-40-250	25	80	2900	10.3	15	53	160M2
65-40-250A	20	51	2900	5.67	7.5	49	132S2
65-40-315	25	125	2900	18.9	30	45	200L1
65-40-315A	22.5	100	2900	15.3	22	40	180M
80-50-200	50	50	2900	9.7	15	70	160M2
80-50-200A	45	40	2900	7.8	11	63	160M1
80-50-200B	40	32	2900	6.37	7.5	55	132S2
80-50-250	50	80	2900	17.1	22	58	180M
80-50-250A	43	60	2900	12.8	15	55	160M2
80-50-315	50	125	2900	30.4	45	56	225M
80-50-315A	45	100	2900	23.6	30	52	200L1
100-65-200	100	50	2900	18.4	22	74	180M
100-65-200A	94	44	2900	16	22	70	180M
100-65-200B	87	38	2900	13.8	15	65	160M2
100-65-200C	80	32	2900	11.8	15	59	160M2
100-65-250	100	80	2900	32.06	37	68	200L2
100-65-250A	95	72	2900	29	37	64	200L2
100-65-250B	90	65	2900	26.2	30	61	200L1
100-65-250C	85	50	2900	20.3	30	57	200L1
100-65-315	100	125	2900	50.06	75	68	280S
100-65-315A	95	113	2900	45.23	55	64.63	250M
100-65-315B	90	100	2900	40.5	55	60.50	250M
100-65-315C	82	84	2900	34.76	45	54	225M
125-100-200	200	50	2900	35.4	45	77	225M
125-100-200A	178	40	2900	26.6	37	73	200L2
125-100-250	200	70	2900	47	55	80	250M
125-100-250A	190	63	2900	41.6	55	78	250M
125-100-250B	180	57	2900	37.9	45	74	225M
125-100-250C	170	51	2900	32.15	45	72	225M
125-100-250D	150	70	2900	40	45	70	225M
150-150-200	350	50	2900	60	75	80	280S
150-150-200A	313	40	2900	45	55	76	250M
200-150-400	350	50	1450	61.8	75	78	280S
200-150-400A	330	45	1450	52.8	75	77	280S
250-200-400	500	50	1480	86.2	110	79	315S
250-200-500	500	80	1480	136	160	76.5	315M
250-200-500A	400	50	1480	75	90	73	280M

# ROTOR

# ZTND SERIES AIR-COOLED HOT OIL PUMP

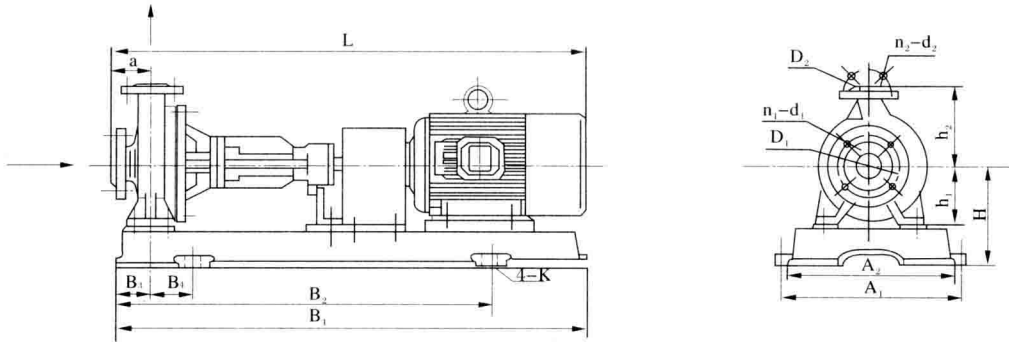


Diagram of Machine Groups Installation Dimensions

## ZTND INSTALLATION DIMENSIONS

Model	A <sub>1</sub>	A <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>s</sub>	a	H	h <sub>1</sub>	h <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	n <sub>1</sub> -d <sub>1</sub>	n <sub>2</sub> -d <sub>2</sub>	K	L
20-20-100	220	195	535	300	117	86	52	120	80	100	65	65	4-φ12	4-φ12	φ16	537
20-20-125							75	60	125	85						115
25-25-160	300	280	680	410	120	70	75	170	110	150	85	85	4-φ14	4-φ14	φ20	623
32-32-160								180	120	130	100	100	4-φ16	4-φ16		647
40-25-160								125	100	4-φ18	4-φ14	670				
50-32-160	400	370	970	600	165	90	85	227	132	160	125	100	4-φ18	4-φ18	φ25	895
50-32-200							80	255	160	180						110
60-40-200							100	145	125	110	985					
65-50-160							80	227	132	160	145	125				965
50-32-250	440	410	1150	740	205	115	270	180	225	125	100	4-φ18	4-φ18	φ25	1070	
80-50-200						110	250	160	200	160	125				1100	
65-40-250	490	460	1280	840	220	130	100	285	180	225	145	110	4-φ18	4-φ18	φ28	1300
80-50-250							125				160	125				8-φ18
100-65-200							100				180	145	8-φ18	4-φ18		1300
65-40-315	550	510	1430	940	245	140	125	305	200	250	145	110	4-φ18	4-φ18	φ28	1432
100-65-250							180	145	8-φ18	4-φ18	1450					
125-100-200	670	630	1630	1060	285	180	125	335	200	280	160	125	8-φ18	4-φ18	φ28	1630
125-100-250							140	360	210							180
80-50-315			125	390	225	160	125	8-φ18	4-φ18	1700						
100-65-315			180	145	180	145	4-φ18	4-φ18	1700							
150-150-200			150	315	240	240	8-φ23	8-φ23	1732							
200-150-400			160	480	315	450	295	240	8-φ23	8-φ23	1850					
250-200-400	860	1010	2150	1200	525	350	200	630	400	470	385	320	12-φ33	12-φ30	φ35	2321
250-200-500							680	450	540	2572						