

ISR INDUSTRIAL STANDARDIZED PUMPS

WORKING PRINCIPLE

HGI pumps are CENTRIFUGAL SINGLE-IMPELLER PUMPS designed to achieve high delivery rates with low to average heads. The impeller, mounted on the end of the drive shaft, directly faces the suction opening machined in the pump body. The shape of the impeller is designed, with minimal hydraulic losses, to impart radial motion from the centre outwards.

STRUCTURAL CHARACTERISTICS

- PUMP BODY: **cast iron**,
- PUMP BODY COVER: **cast iron**, which close the rear pump body and houses the mechanical seal.
- IMPELLER: **cast iron/ brass**.
- MOTOR SHAFT: **AISI 314 stainless steel**,
- MECHANICAL SEAL: **ceramic and graphite**,
- MOTOR:
the pumps are coupled to an asynchronous, high efficiency **USR** induction motor of suitable size, which is quiet, closed and externally ventilated, suitable for continuous duty. INSULATION class B (Class F).
Motors require an adequate external motor protector, and connections are to be according to current standards.
- PROTECTION: **IP 44**.

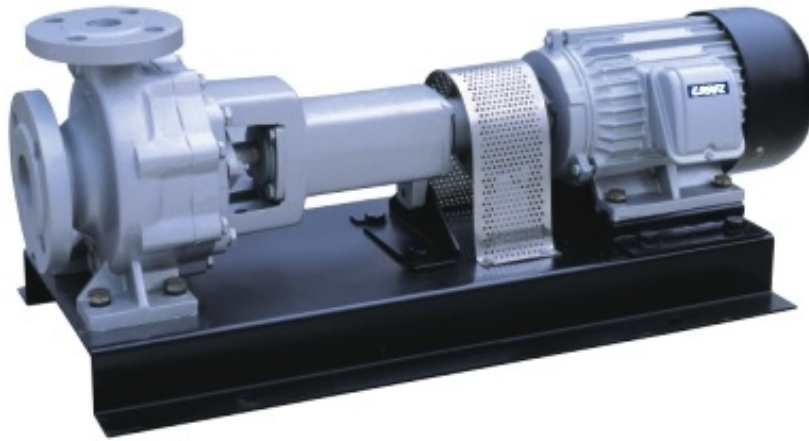


WARRANTY: 1 YEAR

(according to our general sales conditions),

Model	Power motor (kW)	PH	Head H (m)	Capacity Q (m ³ /h)	Efficiency η (%)	Seep n (r/min)	Shaft power n (KW)	(NPSH) r (m)
50-32-125	2.2	3	22	14	53	2900	1.58	1.0
50-32-160	3.0	3	34	15	58	2900	2.39	1.0
50-32-200	5.5	7.5	55	14	47	2900	4.46	1.4
50-32-250	11	15	86	18	40	2900	10.54	2.5
65-40-160	5.5	7.5	35	25	63	2900	3.78	1.2
65-40-200	7.5	10	54	27	61	2900	6.15	1.6
65-40-250	15	20	87	30	52	2900	13.67	1.4
65-40-315	30	40	133	30	41	2900	26.5	3.5
80-50-160	7.5	10	32	66	75	2900	7.67	2.2
80-50-200	15	20	50	67	73	2900	12.50	3.5
80-50-250	22	30	88	62	69	2900	21.53	3.0
80-50-315	37	50	132	62	54	2900	41.26	2.1
100-65-160	15	20	34	93	80	2900	10.76	2.8
100-65-200	22	30	50	100	77	2900	17.68	2.8
100-65-250	37	50	85	95	69	2900	31.87	2.5
100-65-315	75	100	127	103	66	2900	53.95	2.9
125-80-160	18.5	25	32	155	82	2900	16.47	4.9
125-80-200	37	50	50	170	83	2900	27.88	4.2
125-80-250	55	75	86	160	77	2900	48.65	3.8
125-80-315	75	100	125	165	69	2900	81.37	3.0
125-100-200	45	60	52	235	83	2900	40.10	5.0
125-100-250	75	100	84	260	82	2900	72.53	4.2
125-100-315	110	150	132	245	76	2900	115.84	4.2





Model	Power motor (kW) (PH)		Head H (m)	Capacity Q (m ³ /h)	Efficiency η (%)	Seep n (r/min)	Shaft power n (KW)	(NPSH) r (m)
50-32-125	0.55	0.75	5.5	7.0	41	1450	0.26	0.6
50-32-160	0.55	0.75	8.5	7.5	50	1450	0.35	0.8
50-32-200	0.75	1	13.7	7.0	43	1450	0.61	0.8
50-32-250	1.5	2	21.5	9.0	38	1450	1.40	0.9
65-40-160	0.75	1	8.7	12.5	58	1450	0.51	0.8
65-40-200	1.1	1.5	13.5	13.5	56.5	1450	0.88	1.0
65-40-250	2.2	3	21.7	15.0	45	1450	1.97	1.0
65-40-315	4	5.5	33.2	15.0	37	1450	3.67	0.7
80-50-160	1.5	2	8.0	33	71.5	1450	1.01	1.0
80-50-200	2.2	3	30	33.5	72	1450	1.58	1.0
80-50-250	3.0	4	30	31	63.5	1450	2.92	1.0
80-50-315	5.5	7.5	35	31	51	1450	5.46	0.7
100-65-160	3.0	4	40	46	74	1450	1.44	0.5
100-65-200	4.0	5.5	50	50	74	1450	2.30	1.2
100-65-250	5.5	7.5	60	47.5	64	1450	4.34	1.2
100-65-315	11	15	80	51.5	61.5	1450	7.23	0.7
125-80-160	2.2	3	35	77.5	77	1450	2.19	1.5
125-80-200	3.0	4	100	85	79	1450	3.66	1.6
125-80-250	5.5	7.5	50	80	76	1450	6.16	1.4
125-80-315	11	15	32	81	67	1450	10.27	1.0
125-80-400	15	20	40	90	65	1450	19.80	2.4
125-100-200	7.5	10	13	117.5	80	1450	5.20	1.8
125-100-250	11	15	21	130	81	1450	9.18	1.7
125-100-315	15	20	32	130	75	1450	15.1	1.5
125-100-400	30	40	52	125	70	1450	25.29	1.2
150-125-250	18.5	25	20	215	84	1450	13.94	2.2
150-125-315	30	40	33.5	190	82	1450	21.13	1.7
150-125-400	45	60	52	210	77	1450	38.62	1.7
200-150-250	37	50	17	360	82	1450	20.33	2.7
200-150-315	55	75	32	360	83	1450	37.80	2.7
200-150-400	90	120	52	370	78	1450	67.18	2.9
200-150-500	110	150	83	370	76	1450	110	2.7
250-200-250	55	75	15	570	85	1450	27.39	4.8
250-200-315	75	100	28.5	600	86	1450	54.13	3.2
250-200-400	110	150	53	600	84	1450	103.10	3.9
250-200-500	150	200	82	550	81	1450	151.60	3.5
300-250-315	90	120	24	900	84	1450	70.00	4.6
300-250-400	150	200	46	900	85	1450	132.60	4.5
300-250-500	185	250	75	1050	85	1450	252.31	4.7
350-300-400	150	200	41	1450	85	1450	190.40	5.3
350-300-500	220	300	70	1600	86	1450	354.50	6.0