



Οριζόντιες Διαιρούμενου Κέλυφους Αντλίες Horizontal Split-Case Pumps





Fields of Application

- Water supply and booster stations
- Irrigation, overhead irrigation
- Drainage stations
- Industrial water supply systems
- Fire fighting systems
- Marine applications
- General applications in refineries.

Pumped Liquids

Thin, clean, non – aggressive and non explosive liquids free from large solid particles or fibers.

Design

Single or double stage, axially split case pumps with double suction, radial impeller. Bigger sizes are double volute construction. Double suction, closed impeller is hydraulically thrust compensated. Lower casing is in- line design, suction and discharge nozzles are on the same line. Upper casing is self- aligning and therefore easy to mount. Thanks to double suction impeller, the NPSH values are reduced and the high suction lifts are possible. Two different designs can be applied:

- Long shaft design: For soft packing stuffing box the length of the pump shaft is longer. It is also possible to use mechanical seal on this design.
- 2- Short shaft design: For mechanical seal applications, shaft length can be reduced. Pump and motor are separate components, connected to each other via flexible coupling and mounting on a base plate. As well as the electric motor it is also available coupled to diesel engine.

Bearings

At the drive end a cylindrical roller bearing, and on the dead end a deep grove ball bearing are installed. Both of them are grease lubricated.

Shaft Seal

Un-cooled soft packed stuffing box with lantern ring is essential for the long shaft design. There is a leakage setting device on the washing water line of packing. Different types of mechanical seals are available on long or short shaft design pumps.

Technical Data

 Suction Discharge Pressure Capacity Total Hea 	:	DN 80-DN 500 DN 65-DN 500 16-20 Bar. up to 4000 m ³ /h up to 160m.
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Pump Flanges

- Discharge flanges : DIN 2533 -PN 16
- Suction flanges : DIN 2533- PN 16 ANSI, BS or other flanges are also available on demand.

Identification Code

	HSC 10	0 – 250A
HSC: cast iron impeller HSB: bronze impeller		
HST: stainless steel impe DN: Discharge nozzle Rated impeller diameter		

Materials

<u>Volute casing</u> Cast iron (GG-25) Ductile iron (GGG -40) Cast Steel (G5-45) Stainless steel (AISI 304-AISI 316) Cast bronze (G-CuSn 10)

<u>Impeller</u>

Cast iron (GG25) Bronze, or stainless steel (AISI304-AISI316)

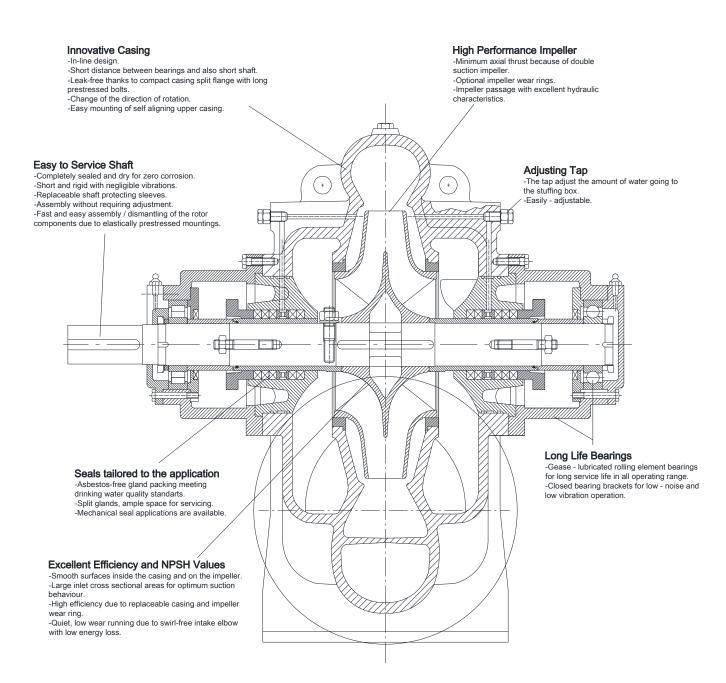
<u>Shaft</u>

Carbon steel (C60) Chromium steel (AISI420) Stainless Steel (AISI304-AISI316)

Casing wear Ring Bronze, Chromium steel or Stainless steel



Design Advantages





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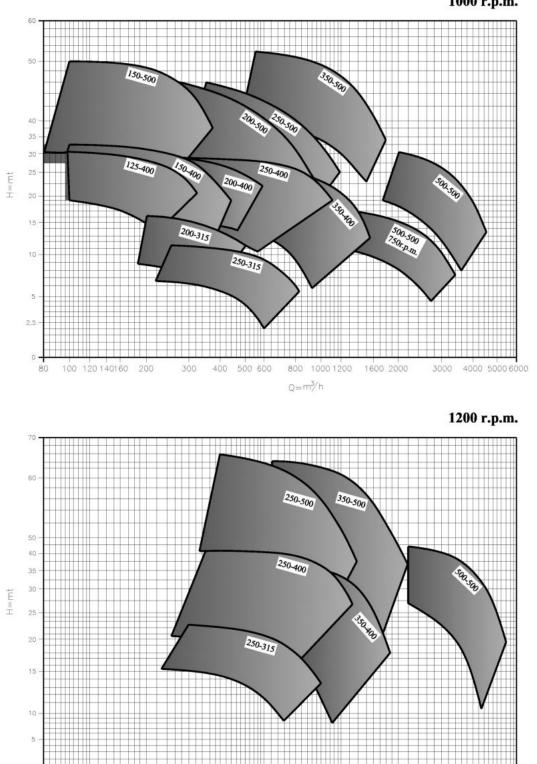
80

100 120 140160 200

300

400 500 600





1000 r.p.m.

3000 4000 5000 6000

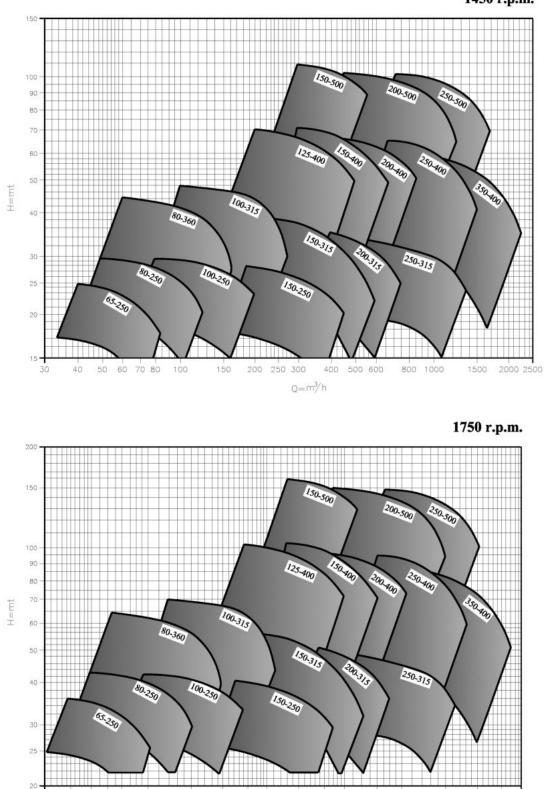
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Q=m³/h

800 1000 1200 1600 2000



HSC Performance Range



1450 r.p.m.

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400

Q=m³/h

500 600

800 1000

1500 2000 2500 3000

50 60 70 80

40

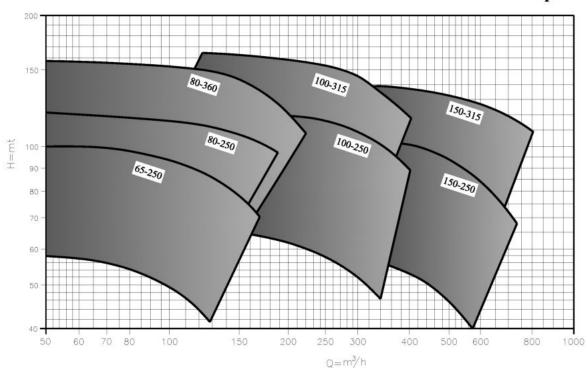
100

150

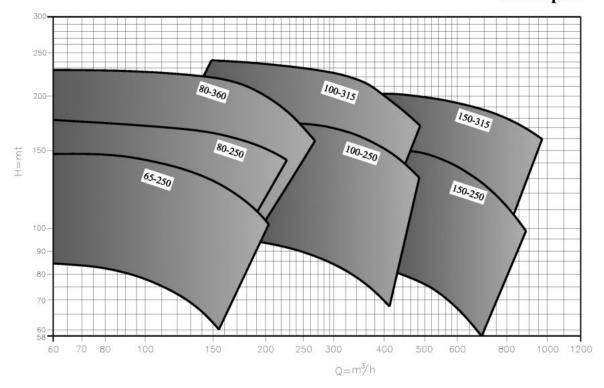
200 250 300







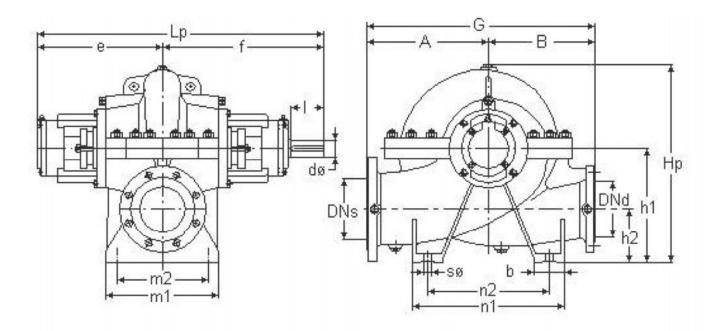




2900 r.p.m.

ΑΦΟΙ ΦΛΙΝΟΥ-Κ. ΜΑΡΙΝΑΚΗΣ Α.Β.Ε.Ε. HELLENIC PUMP INDUSTRY





HSC Bare-shaft Pump Dimensions

No	PUMP	FLAP	FLANGES								-								2		đ	Ball Bea.		Seal
			_	Lp	e	f	h1	h2	Нр	Α	в	G	b	m1	m2	n1	n2	SØ	1	dø	Group	Drive	Dead	Mec.
	SIZE	DNs	DNd	,	-		-				<u> </u>				-					_	-	1		2
1	65-250	100	65	585	260	325	250	115	425	285	225	510	70	240	190	350	275	18	60	28	A	6307	6307	
2	80-250	125	80	680	300	380	280	140	485	300	275	575	80	234	190	400	330	18			в	NU 308	6308	ø 55
3	80-360	125	80	000	300	360	315	135	35 550	325	275	600		204					80	35				
4	100-250	150	100	715	315	15 400	315	155	550					270	220									
5	100-315	150	100	820	350	470	355	145	585	360	320	680	90	290	230	435	350	- 23	110	45	С	NU 310	6310	ø 65
6	150-250	200	150	870	375	495	375	175	635	400	325	725	100	340	270	500	400		110	40	Ŭ			
7	125-400	150	125		415	530	375	175	700	450	400	850												
8	150-315	200	150	945			375	175	645	400	350	750		370 300	300	500	400							
9	150-400	200	150	945			400	200	730	475	400	875	100				23	110	55	D	NU 312	6312	75	
10	150-500	200	150				450	250	870	550	500	1050	100			650	550	20				N	63	Ø
11	200-315	250	200	975	430	545	430	205	730	450	375	825		430	360	500	400							
12	200-400	250	200	975			430	205	790	525	425	950		430	300	600	500							
13	200-500	250	200	1042	447	595	475	220	870	550	500	1050		460	390									ø 85
14	250-315	300	250	1062	457	605	500	225	860	525	450	975	100	480	410	650	550	28	140	65	Е	314	14	
15	250-400	300	250	1042	447	595	500	225	865	550	450	1000	100	460	390	650	550	20	140	05	L	NU 31	631	
16	250-500	300	250	1062	457	605	525	240	945	600	500	1100		480	410									
17	350-400	400	350	1290	570	720	610	295	1010	600	500	1100	150	600	500	750	600	28	140	75	F	NU 316	6316	ø 100

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