



Centrifugal Pump



 **MAC-TECH ENGINEERING SDN. BHD.**

MAC-TECH ENGINEERING SDN. BHD.(156877-M)

NO.21 & 23, Jalan 3/118C, Desa Tun Razak Industrial Park
Cheras, 56000 Kuala Lumpur, West Malaysia.
Tel: (6)03-91732606 (Hunting Line),91732601,91732602,91732603,91732609
Fax: (6)03-91732893,91732755
Email: Enquiry@mac-tech.com.my Web: <http://www.mac-tech.com.my>

The technical data are subject to change without prior notice.

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 **MAC-TECH ENGINEERING SDN. BHD.**

End Suction SERIES

Horizontal Single-stage End-
suction Centrifugal Pump

ISO SERIES

Horizontal Single-stage End-
suction Centrifugal Pump

EHS SERIES

Horizontal Single-stage
Split Case Pump

ESL SERIES

Vertical Double-suction
Split Case Pump

EGM SERIES

Vertical Inline Pump

Company Information

ABOUT MAC-TECH ENGINEERING

Founded on 17th October 1986, Mac-Tech Engineering has established itself as a trusted leader with over 35 years of expertise in delivering high-quality domestic and industrial water pump solutions. We specialize in providing a wide range of systems for air conditioning, fire protection, and cold and hot water applications, ensuring reliable and efficient performance for every project.

We pride ourselves on our commitment to quality and customer satisfaction. As such, we have a dedicated team focused on ensuring optimal pump performance, offering comprehensive backup services and technical assistance. At Mac-Tech Engineering, we provide expert guidance throughout all project phases, ensuring that our clients receive tailored solutions for their needs.

In addition, our subsidiary, Mac-Tech Maintenance, is devoted to the maintenance and servicing of all pumps sold, ensuring the longevity and efficiency of every system. With a reputation for excellence and a customer-first approach, Mac-Tech Engineering remains the go-to partner for reliable and innovative pump system solutions.



MAC-TECH ENGINEERING SDN. BHD. (156877-M)

MAC-TECH MAINTENANCE SDN. BHD. (623852-W)

No. 21 & 23, Jalan 3/118C, Desa Tun Razak Industrial Park, Cheras, 56000 Kuala Lumpur, West Malaysia.

Tel: (6) 03-9173 2606 (Huting Line), 9173 2601, 9173 2602, 9173 2603 Fax: (6) 03-9173 2893, 9173 2755

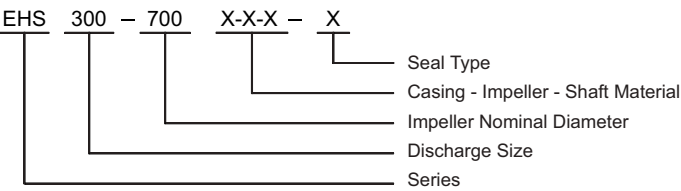
Email: enquiry@mac-tech.com.my <http://www.mac-tech.com.my>



Description & Features

Ebsray EHS series split casing pumps are designed with double suctions. This kind of pumps are of high flow rate, high efficiency, stable operation, low noise and long service life, easy to install and maintain. Widely used in plant, mine, city water supply, irrigation, HVAC and vessel industry.

Model Instruction:



Material Code

C: Cast Iron

S304: ASTM 304

Q: Ductile Iron

S316: ASTM 316

B: Bronze

Seal Type:

S: ASTM 420

M: Mechanical Seal

45:ASTM 1045

P: Gland Packing

Design & Structure

Design	Performance referring to GB/T5657-95, Q/ FZEF 001-2014 Standard	
Structure	Single-Stage, Double-Suction, Split-Casing	
DN (mm)	50~350	
Flange	DIN2501 PN16 ; PN25(on request)	

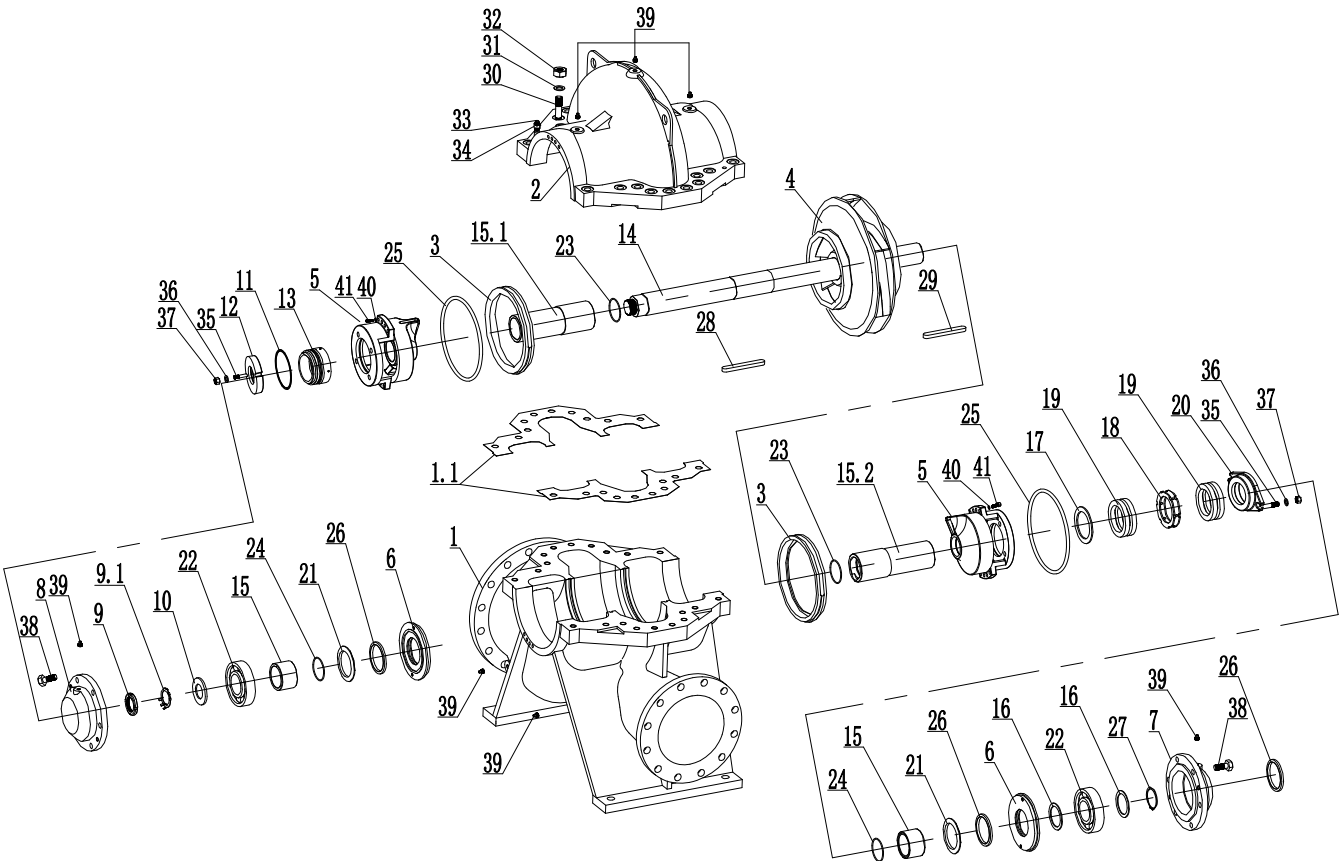
Material

Part	Standard Material	Options on request
Casing	Cast Iron	Ductile Iron
Impeller	Bronze	Cast Iron / ASTM304(CF8) / ASTM316(CF8M)
Shaft	ASTM1045	ASTM304 / ASTM316 / ASTM420
Shaft Seal	Mechanical Seal	Gland Packing

Operating Data

Flow Rate(Q)	36~3400m³/h
Head(H)	8~190 m
Speed	1480 or 2980 rpm (50Hz) / 1780 or 3580 rpm (60Hz)
Max Temperature	85°C(standard) ; 105°C(on request)
Working Pressure	1.6MPa(standard) ; 2.5MPa(on request)
Conveying Medium	Clean water or liquids similar to clean water in physical property

EHS Series Explode View & List of Parts



Code	Part Name
01	Casing-Bottom
01.1	Casing Gasket
02	Casing-Top
03	Wear Ring
04	Impeller
05	Seal Frame
06	Bearing Cover
07	Bearing Frame-Driving End
08	Bearing Frame-Non-driving End
09	Screw Nut
09.1	Lock Washer for Nut
10	Bearing Slinger
11	O-Ring
12	Seal Cover
13	Mech. Seal

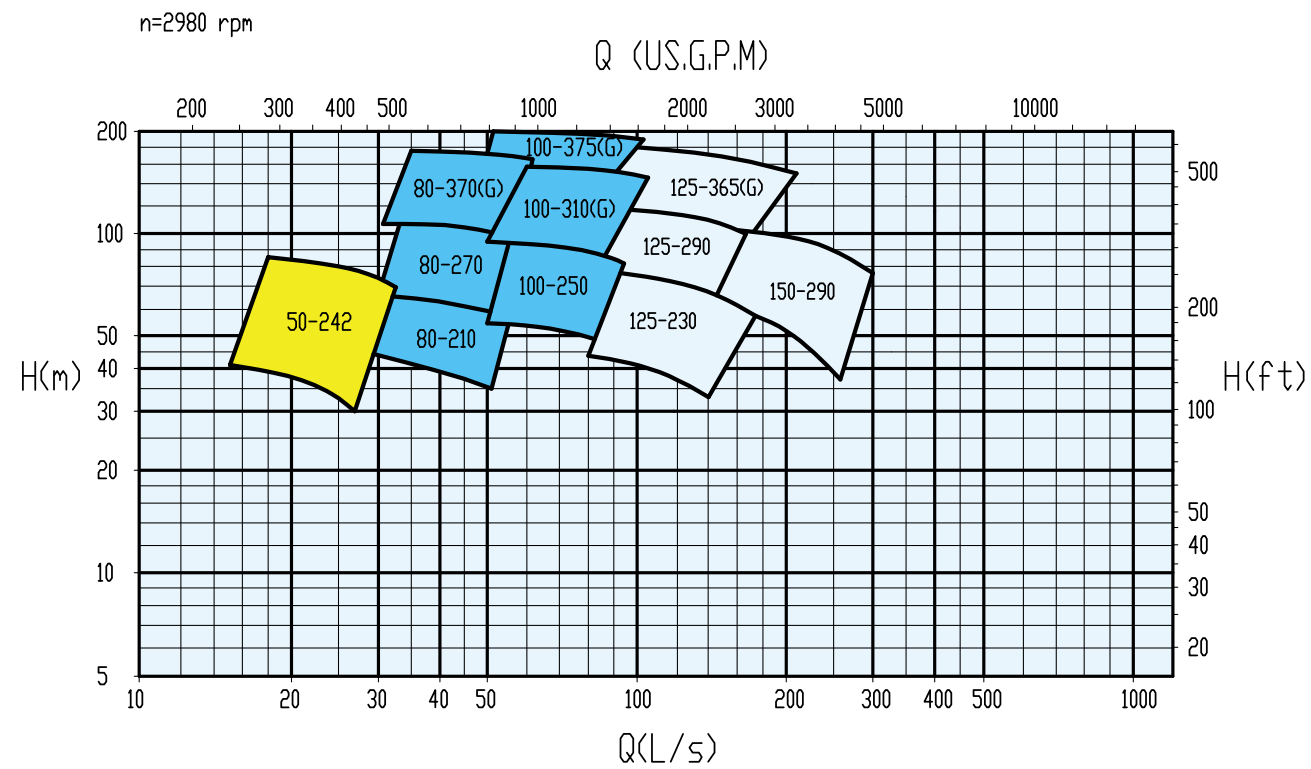
Code	Part Name
14	Shaft
15	Shaft Sleeve-Short
15.1	Shaft Sleeve
15.2	Packing Shaft Sleeve
16	Bearing Seal Plate
17	Packing Seal Plate
18	Lantern Ring
19	Gland
20	Packing Cover
21	Slinger
22	Ball Bearing
23	O-ring
24	O-ring
25	O-ring
26	Felting

Code	Part Name
27	External Circlips
28	Key
29	Key
30	Screw Bolt
31	Spring Washer
32	Screw Nut
33	Pin
34	Screw Nut
35	Screw Bolt
36	Spring
37	Screw Nut
38	Bolt
39	Plug
40	Bolt
41	Spring Washer

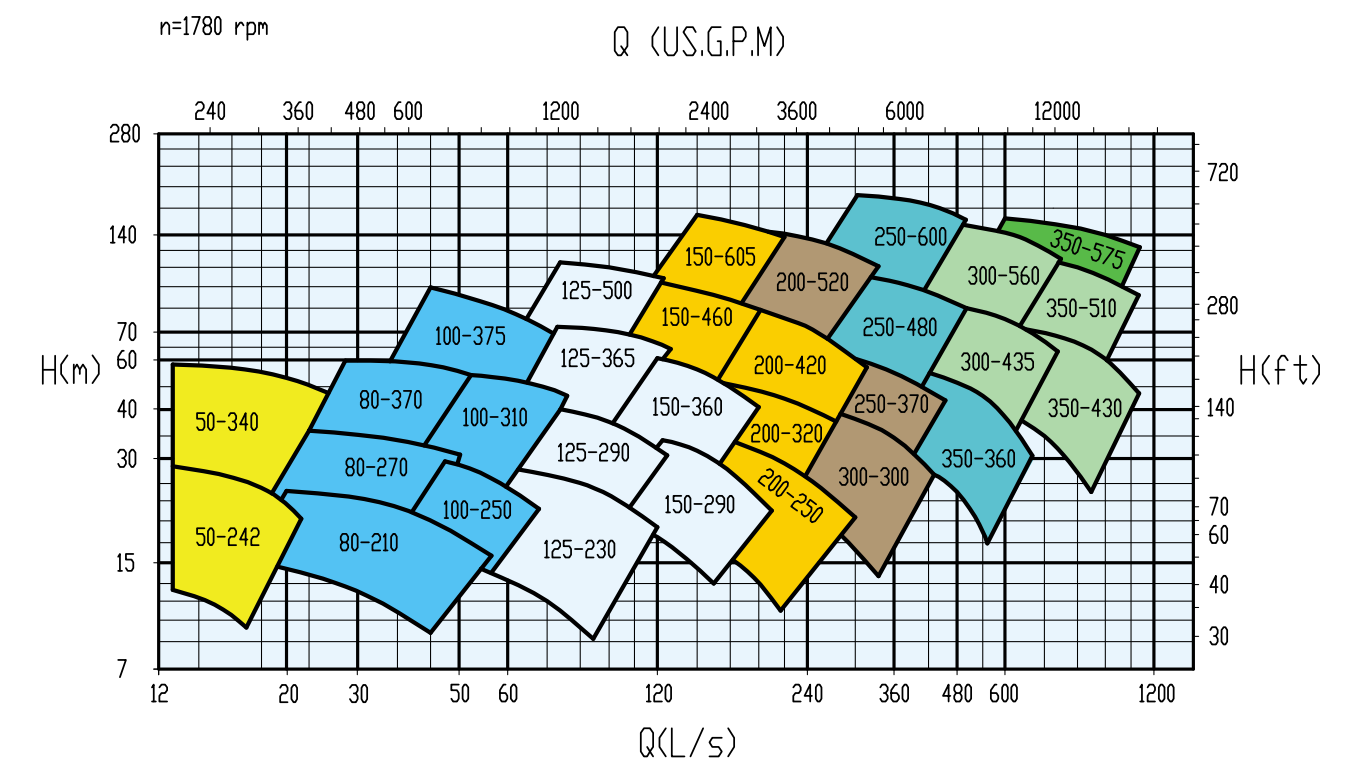
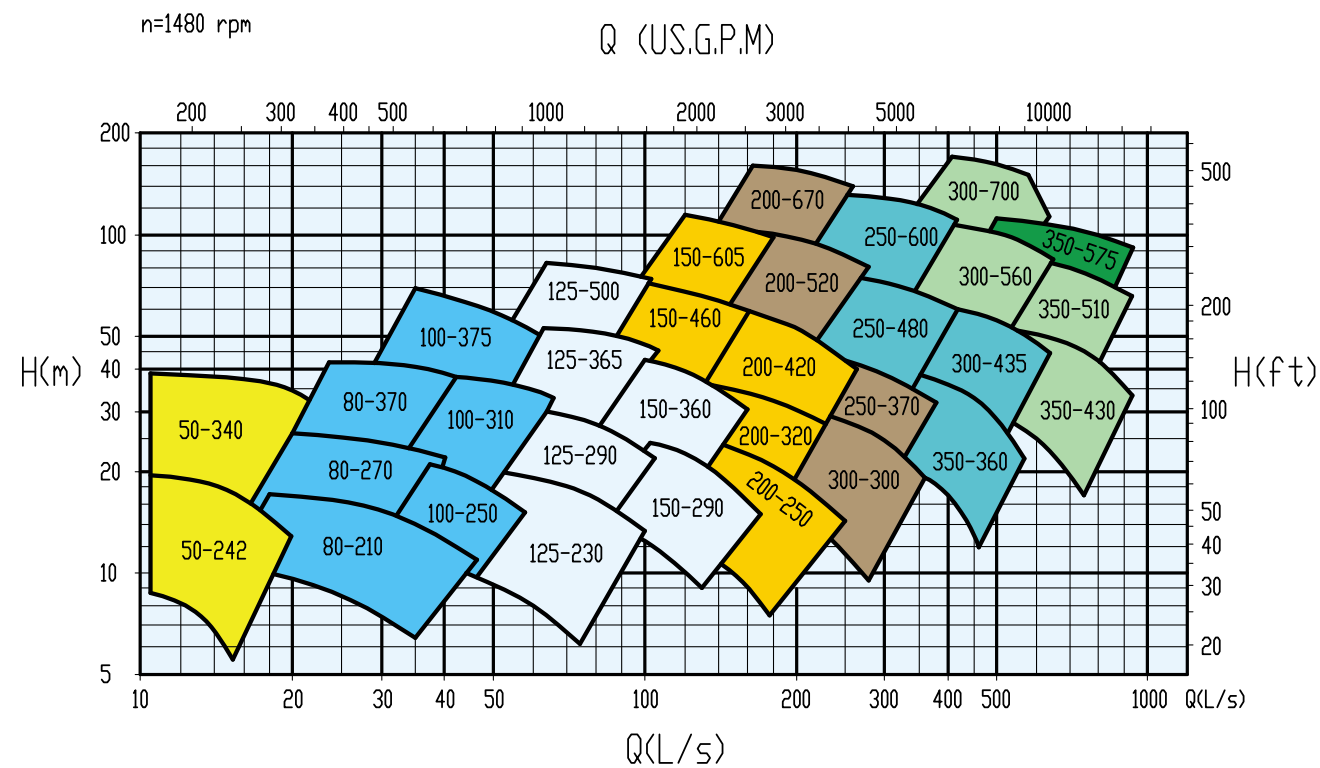
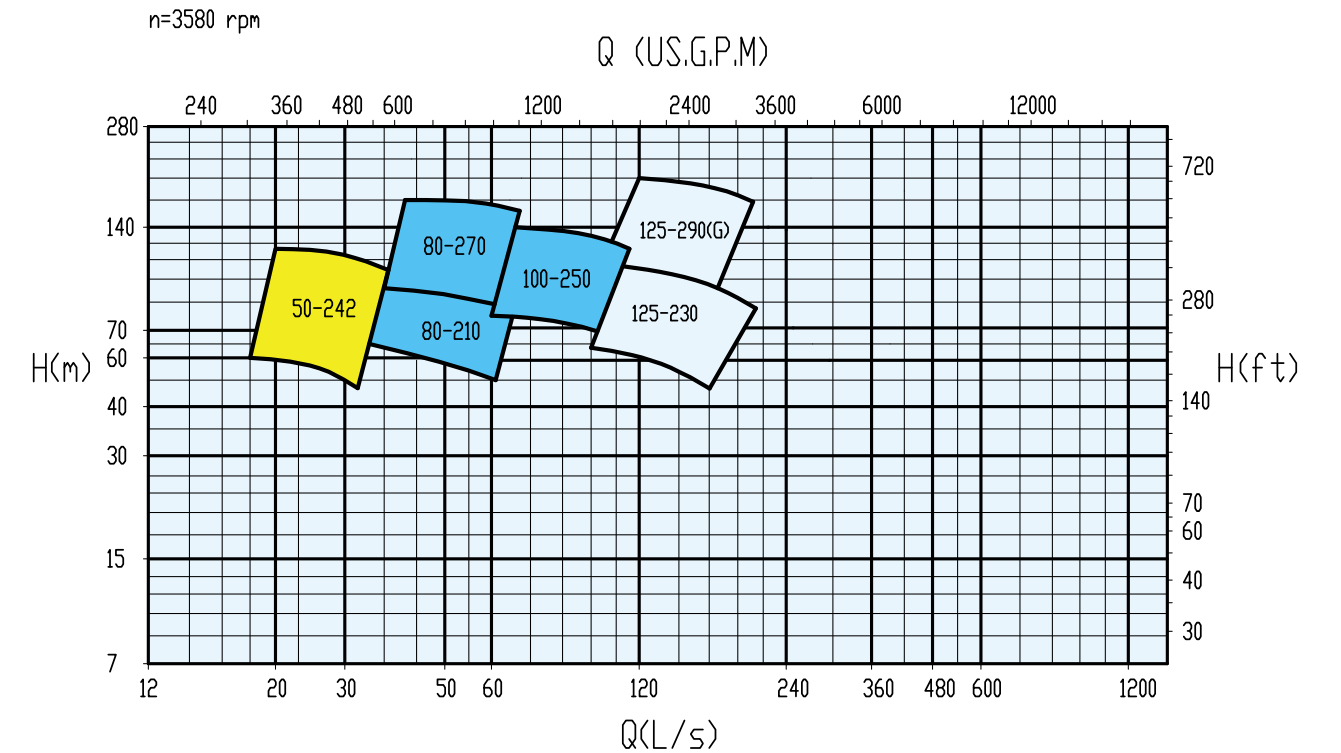
Applications

- Fire Fighting System
- HVAC and Cooling Tower
- Municipal Water Supply
- Pump Station
- Industrial water supply system

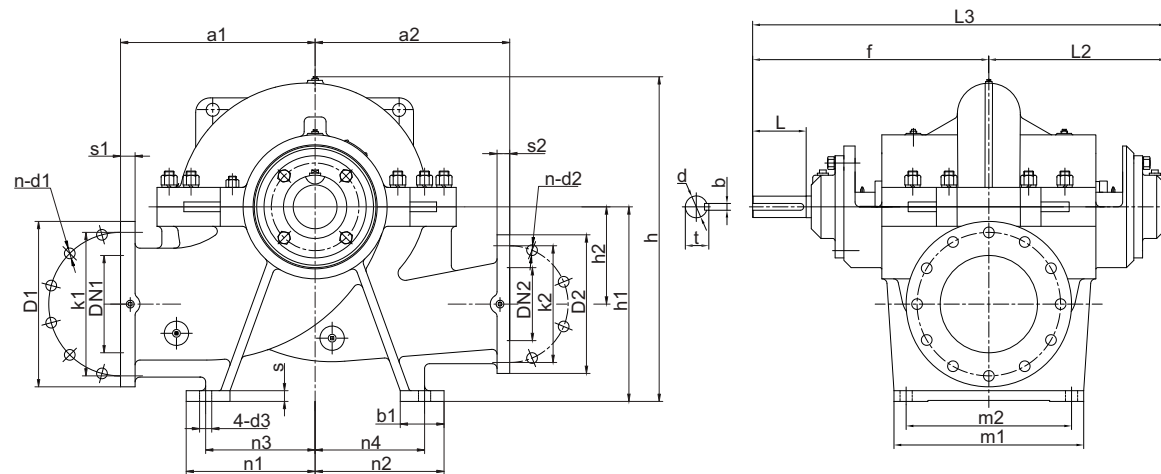
EHS Series-50Hz Performance



EHS Series-60Hz Performance



EHS Series Installation Dimensions

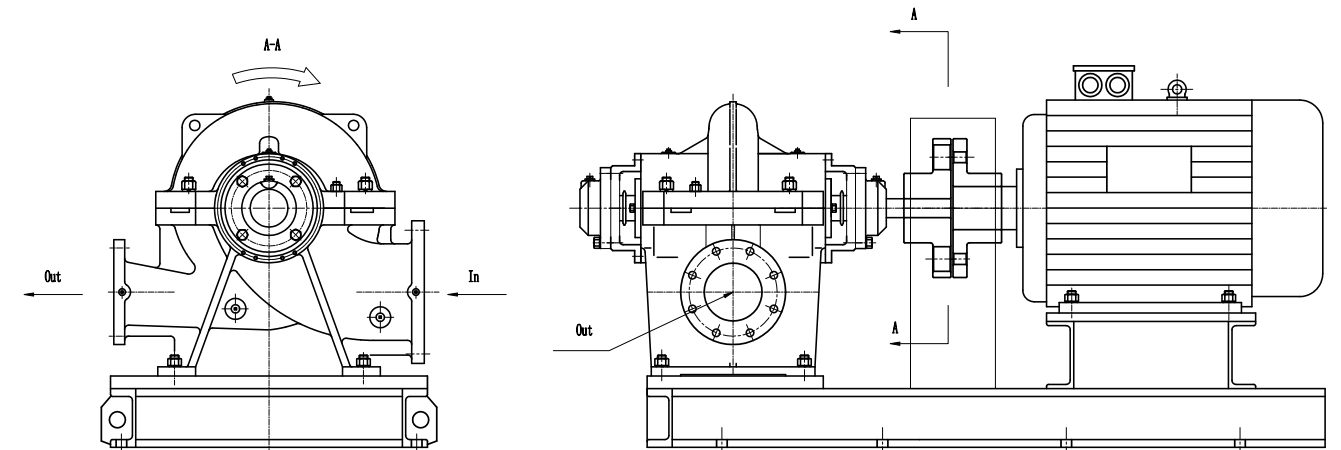


Model	DN1	DN2	Pump Dimensions										Foot										Shaft						Weight																	
			a1	a2	f	l2	l3	h	h1	h2	m1	m2	n1	n2	n3	n4	b1	d3	s	d	b	l	t	kg																						
EHS50-242	65	50	216	216	305	237	542	345	178	89	222	178	152.5	152.5	130	130	60	Φ19	16	Φ24	8	65	27.3	76																						
EHS50-340			254	254				433	216	127							93																													
EHS80-210			300	300				490	315	140							179																													
EHS80-270	125	80	300	300	385	300	685	528	315	140	320	270	205	205	170	170	80	22	Φ34	10	80	37.3	200																							
EHS80-370								558									209																													
EHS80-370G								570									209																													
EHS100-250	150	100	330	330	300	685	605	355	170	235	235	200	200	80	22	Φ34	10	80	37.3	257																										
EHS100-375							620							245																																
EHS100-310G							605							263																																
EHS100-375G	200	125	370	370	485	365	850	620	400	390	340	265	265	225	225	90	Φ25	Φ39	12	80	42.3	260																								
EHS125-230								620														309																								
EHS125-290								635														293																								
EHS125-365	200	150	450	450	390	875	665	400	210	320	320	280	280	85	26	Φ44	12	110	47.3	311																										
EHS125-290G							635													310																										
EHS125-365G							660													332																										
EHS150-360	250	200	600	500	540	420	960	720	500	240	480	430	315	315	280	280	75	25	Φ30	35	Φ54	16	58.3	414																						
EHS150-460								660																323																						
EHS150-605								670																350																						
EHS200-250	300	250	550	550	695	515	1210	710	600	300	520	400	400	400	350	350	100	Φ30	28	32	Φ74	20	170	78.9	418																					
EHS200-320								885																	300	755																				
EHS200-420								805																	390	755																				
EHS200-520	350	300	650	550	629	479	1108	955	600	300	480	400	400	400	350	350	100	Φ30	28	32	Φ74	20	170	78.9	450																					
EHS200-670								975																	480	506																				
EHS250-280								985																	520	551																				
EHS250-370	400	300	700	650	785	605	1390	1060	630	300	500	400	400	400	350	350	100	Φ30	28	32	Φ74	20	170	78.9	506																					
EHS250-480								1072																	333	551																				
EHS250-600								1055																	350	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
EHS300-300	450	350	750	650	785	605	1390	1140	750	400	600	520	400	400	350	350	100	Φ30	28	32	Φ74	20	170	78.9	550																					
EHS300-435								1255																	333	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
EHS300-560								1200																	350	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
EHS300-700	400	350	750	650	785	605	1390	1200	750	400	600	520	400	400	350	350	100	Φ30	28	32	Φ74	20	170	78.9	594																					
EHS350-360								1255																	333	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
EHS350-430								1200																	350	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
EHS350-510	400	350	750	650	785	605	1390	1200	750	400	600	520	400	400	350	350	100	Φ30	28	32	Φ74	20	170	78.9	600																					
EHS350-575								1255																	333	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
								1200																	350	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550

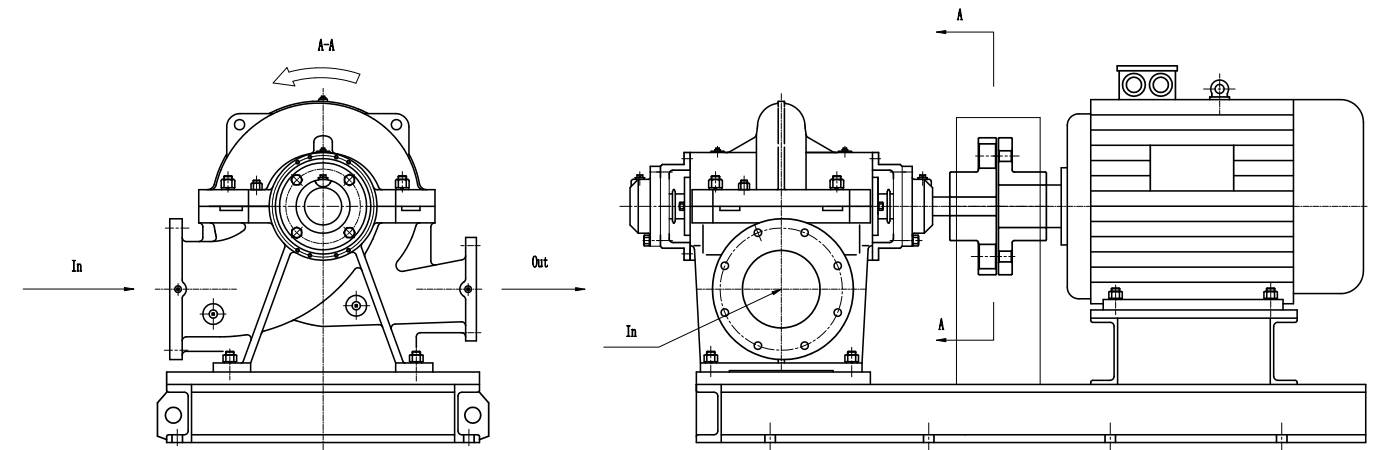
Flange Dimensions (ISO7005.2 DIN2501 PN16 GB/T17241.6 PN1.6)

DN1/DN2	80	100	125	150	200	250	300	350	400	450	500	600	700
K1/K2	160	180	210	240	295	355	410	470	525	585	650	770	840
D1/D2	200	220	250	285	340	405	460	520	580	640	715	840	910
S1/S2	22	24	26	26	30	32	34	38	40	40	46	54	54
n-d1/n-d2	8-Φ17.5	8-Φ17.5	8-Φ17.5	8-Φ22	12-Φ22	12-Φ26	12-Φ26	16-Φ26	16-Φ30	20-Φ30	20-Φ33	20-Φ36	24-Φ36

Standard Type : Clockwise viewing from the drive side



Special Type : Counter-clockwise viewing from the drive side



NOTE : FOR REFERENCE ONLY