

Customer

Supplier

Company name
Editor
Phone number
E-mail

Fields of Application

Water supply and booster stations.
Irrigation, overhead irrigation.
Drainage stations.
Power stations.
Industrial water supply systems.
Firefighting systems.
Marine applications.
General applications in refineries.



Design Specification

Single-stage axially split casing pumps with double entry and radial impeller.

Double entry, 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 it is easy to mount.

The NPSH values are reduced and high suction lifts are possible thanks to double suction impeller.

Two different designs can be applicable:

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.

Short shaft design: For mechanical seal applications, shaft length can be reduced. Therefore, compact and rigid pumps are available .

Pump and motor are separate components connected to each other via flexible coupling and mounting on a base plate. It is also possible to couple the pump to the diesel engine.

Technical Data

Suction Flange: DN80 - DN500
Discharge Flange : DN65 - DN500
Operating Pressure : 16 - 20 bar
Temperature Range : Up to 110 °C
Speed Range : 960 - 3500 rpm
Flow Range : 30 - 4000 m³/h
Head Range : 15 - 180 m

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Operating data specification

Pumped fluid	Water	Rated flow	320	m ³ /h
Solids		Rated head	50	m
Kind		Geodetic head	0	m
Percentage of solid content	0	Available system NPSH		m
pH value		Inlet pressure (pin)	0	bar
Temperature	20	Altitude above sea level	100	m
Density	998.3	Max. operating pressure	5.41	bar
Kin. viscosity	1.005	Max. diff. pressure	5.41	bar
Vapour pressure	0.0234			

Pump

Make	MAS DAF	Impeller type		
Pump type	SPLT 150-400	Impeller construction		
Frame size		Impeller Ø		
Design	Split Case	Max.	450	mm
Self priming	<input checked="" type="checkbox"/> No	designed	387	mm
Speed	1480	Min.	345	mm
Stages	1	Flow		
Suction port		Nominal	402	m ³ /h
Pressure rating	PN16	Max.	576	m ³ /h
Nominal pipe size	DN200	Min.	0	m ³ /h
Standard	DIN	Head		
Discharge port		Nominal	46	m
Pressure rating	PN16	Min.	31.4	m
Nominal pipe size	DN150	Max.	55.3	m
Standard	DIN	Shut off head	55.3	m
Shaft power	56.9	NPSH3	2.89	m
Shaft power P2(Q=max.)	75	Efficiency	76.4	%

Motor

Make/Type	75 KW-1500 RPM / 280S
Specific design	IE3 / 50 Hz / Pole pairs 2
Rated power	75 kW
Electric voltage	3~ 400 V
Speed	1480 1/min
Electric current	133 A
Frame size	280S
Degree of protection	IP 55
Type of protection	
Explosion protection	

Coupling

Make/Type	
Series	
Spacer length	mm
Frame size	

Materials

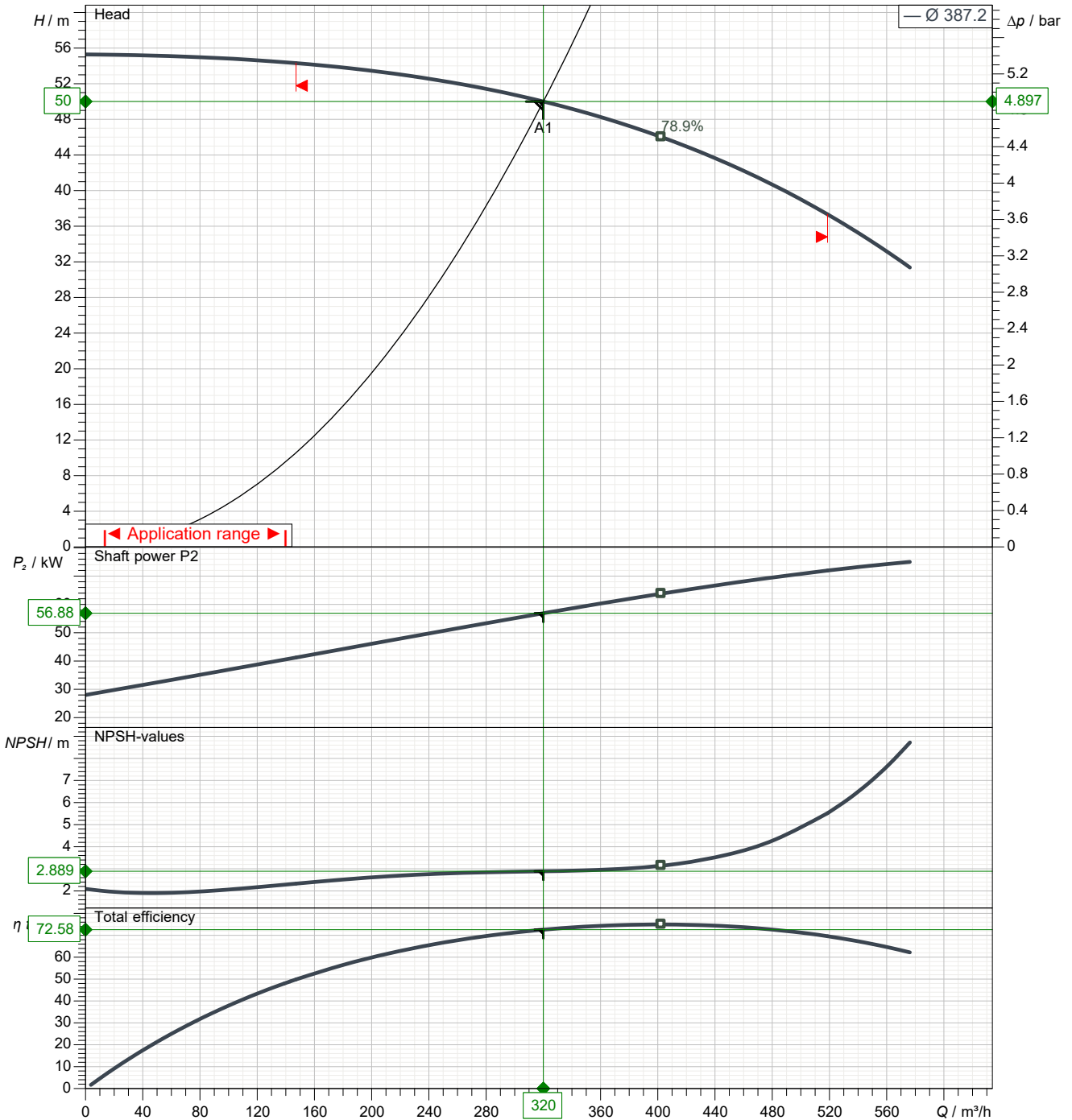
Pump		Shaft seal	Soft Packing
Casing	GJL-250 (GG25)	Material code	
Impeller	GJL-250 (GG25)		
Shaft	A 276 Type 420 (X20Cr13)		

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Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s Sense of rotation Clockwise from the drive end



Pump curves in accordance with ISO 9906 2B

Pumped fluid	Water		Rated flow	320	m ³ /h
Temperature	20	°C	Rated head	50	m
Density	998.3	kg/m ³	Shaft power	56.9	kW
Kin. viscosity	1.005	mm ² /s	Speed	1480	1/min
Vapour pressure	0.0234	bar	NPSH3	2.89	m
Impeller Ø	387	mm	Efficiency	76.4	%

Subject to change

Projec

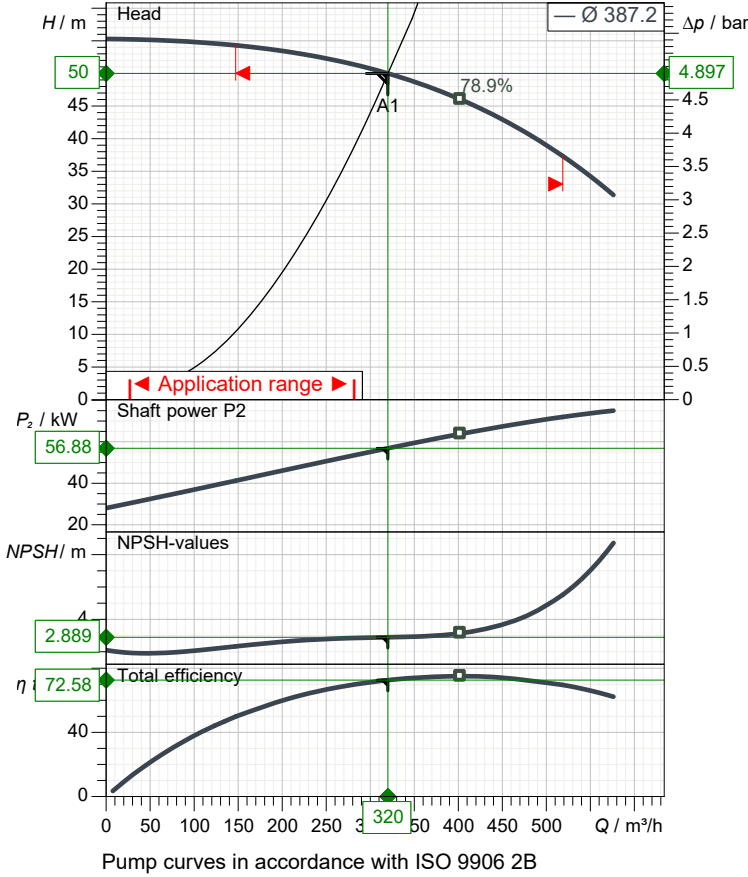
Issue date Last update
2024-AA-A.D. 2024-AA-A.C

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Performance curves



Pump

Make	MAS DAF
Pump type	SPLT 150-400
Design	Split Case
Suction port	
Pressure rating	PN16
Nominal pipe size	DN200
Standard	DIN
Discharge port	
Pressure rating	PN16
Nominal pipe size	DN150
Standard	DIN

Operating data specification

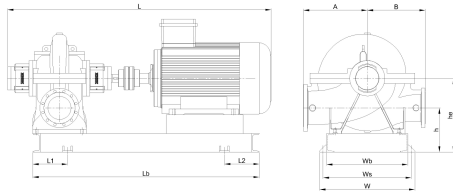
Pumped fluid	Water	
Temperature	20	°C
Density	998.3	kg/m ³
Kin. viscosity	1.005	mm ² /s
Vapour pressure	0.0234	bar
Rated flow	320	m ³ /h
Rated head	50	m
Shaft power	56.9	kW
Speed	1480	1/min
NPSH3	2.89	m
Efficiency	76.4	%
Impeller Ø	387	mm

Motor

Make/Type	75 KW-1500 RPM / 280S
Specific design	IE3 / 50 Hz / Pole pairs 2
Rated power	75 kW
Speed	1480 1/min
Electric voltage	3~ 400 V
Electric current	133 A
Degree of protection	IP 55

Materials

Shaft seal	Soft Packing
Material code	



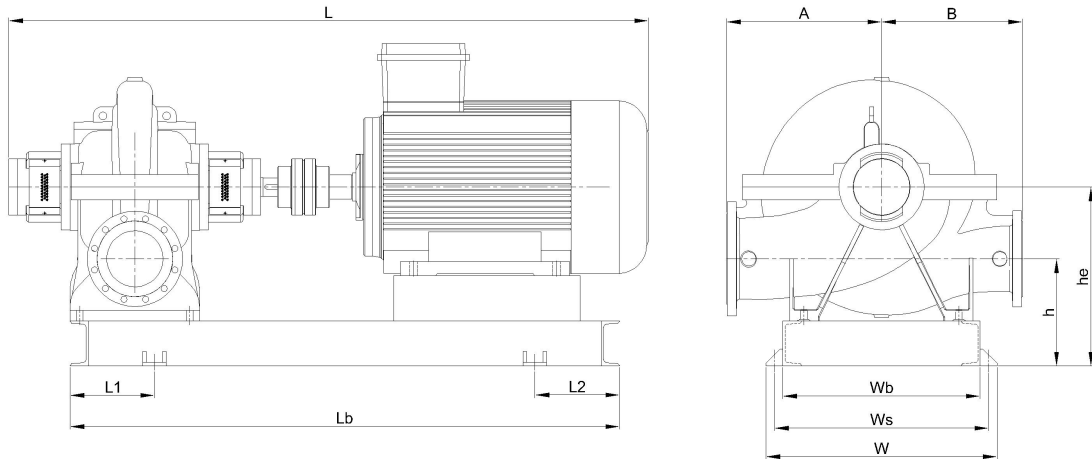
Dimensions	mm
A	475
B	400
h	360
he	560
L	1946
L1	300
L2	300
Lb	1650
W	770
Wb	650
Ws	710

Casing	GJL-250 (GG25)
Impeller	GJL-250 (GG25)
Shaft	A 276 Type 420 (X20Cr13)

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Dimensions	mm
A	475
B	400
h	360
he	560
L	1946
L1	300
L2	300
Lb	1650
W	770
Wb	650
Ws	710

Inlet / outlet

Suction port
DN200
PN16

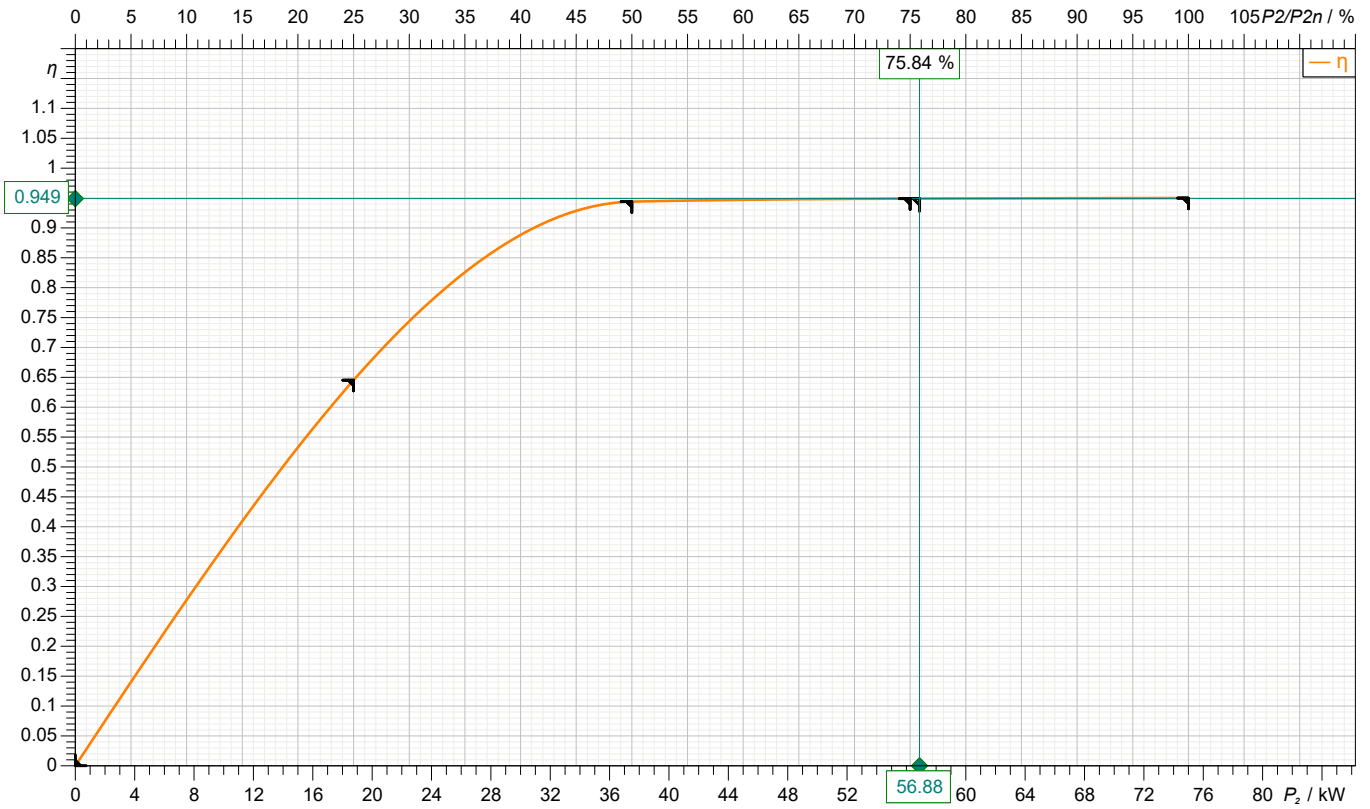
Discharge port
DN150
PN16

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motor data



Symbol	No load	25 %	50 %	75 %	100 %	125 %
P_2 / kW	0	18.75	37.5	56.25	75	
P_1 / kW		29.05	39.72	59.27	78.95	
η / %	0	64.53	94.4	94.9	95	

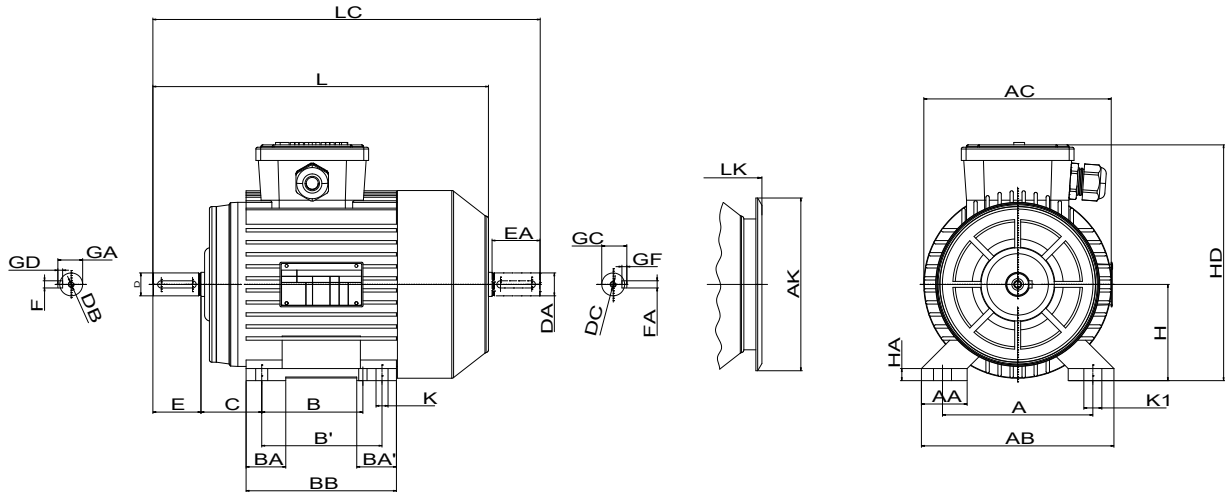
Motor

Make/Type	75 KW-1500 RPM / 280S	Degree of protection	IP 55
Specific design	IE3 / 50 Hz / Pole pairs 2	Type of protection	
Rated power	75 kW	Explosion protection	
Electric voltage	3~ 400 V	Service factor	1.15
Number of poles	4	Starting current	
Speed	1480 1/min	Starting torque	
Electric current	133 A	Moment of inertia	
Power factor	0.86	No. starts per hour	
Frame size	280S	Rated torque	484 Nm
Efficiency class	IE3	Insulation class	F (155C°)

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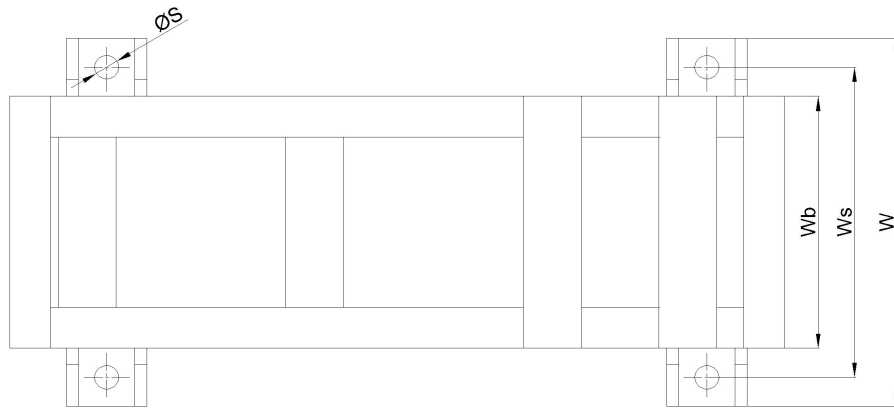
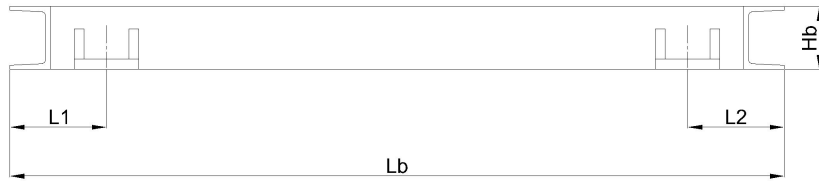


Dimensions	mm		
A	457	E	140
AA	120	EA	140
AB	550	FxGF	20X12
AC	544	FxGD	20X12
AK	440	GA	79.5
B	368	GC	79.5
B'	-	H	280
BA	85	HA	40
BA'	128	HD	630
BB	474	K	24
C	190	L	958
D	75	LC	1106
DA	75	LK	1014
DB	M20		
DC	M20		

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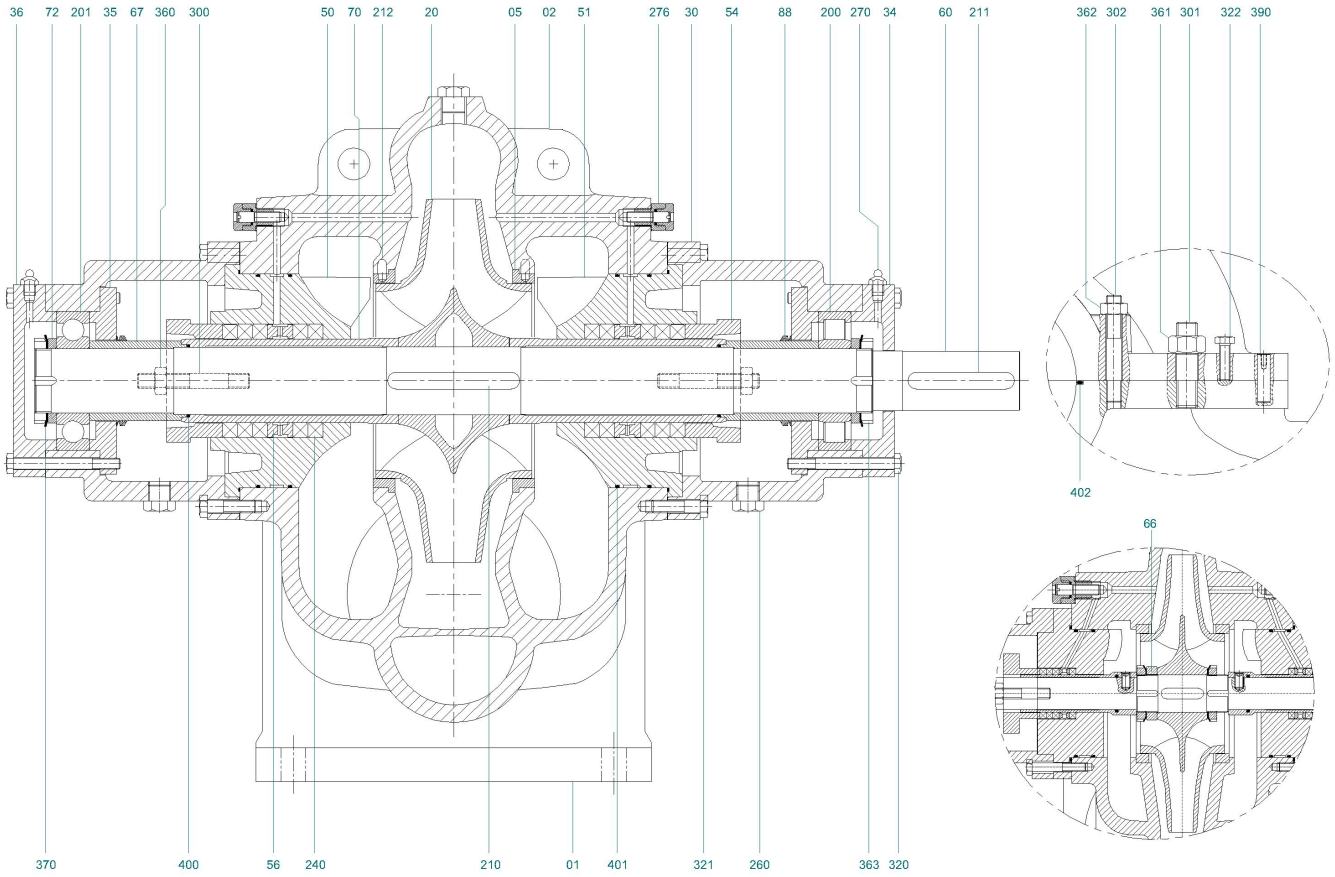


Dimensions	mm
Hb	160
L1	300
L2	300
Lb	1650
S	50
W	770
Wb	650
Ws	710

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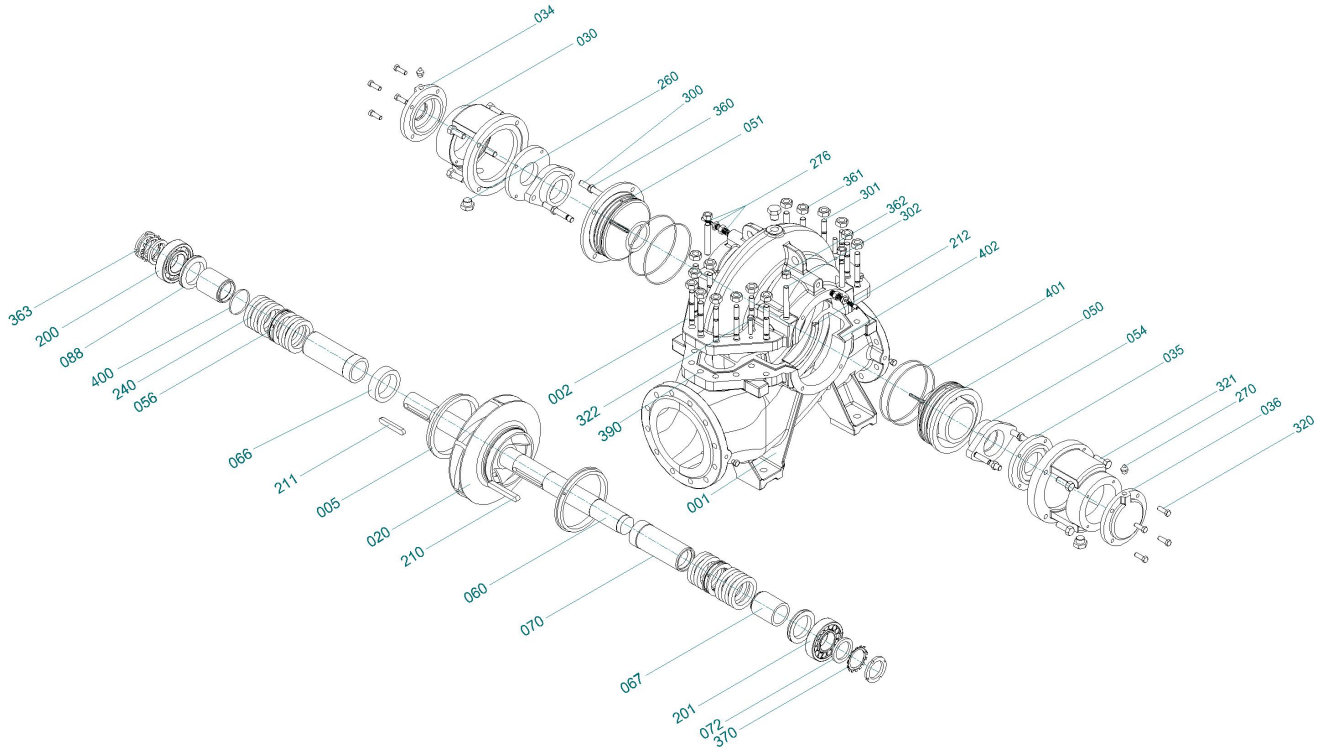


Part No	Part Name	Part No	Part Name	Part No	Part Name
1	Casing Lower	67	Space Sleeve	301	Casing Stud
2	Casing Upper	70	Seal Sleeve	302	Casing Stud
5	Wearing Ring	72	Bearing Sleeve	320	Hex Bolt
20	Impeller	88	V-Ring	321	Bolt
30	Bearing Casing	200	Bearing	322	Bolt
34	Bearing Cover	201	Bearing	360	Nut, Gland
35	Bearing	210	Coupling Key	361	Nut, Casing
36	Bearing H.Cover	211	Impeller Key	362	Nut, Casing
50	Stuffing Box	212	Wearing Ring Key	363	Safety Nut
51	Stuffing Box (Motor)	240	Soft Packing	370	Safety Sheet Metal
54	Gland	260	Plug	390	Cylindrical Pin
56	Lantern Ring	270	Greaser	400	O-Ring (Sleeve)
60	Shaft	276	Setting Tap	401	O-Ring (Stuffing Box)
66	Impeller Setting Sleeve	300	Gland Stud	402	O-Ring

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35	Bearing	210	Coupling Key	361	Nut, Casing
36	Bearing H.Cover	211	Impeller Key	362	Nut, Casing
50	Stuffing Box	212	Wearing Ring Key	363	Safety Nut
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