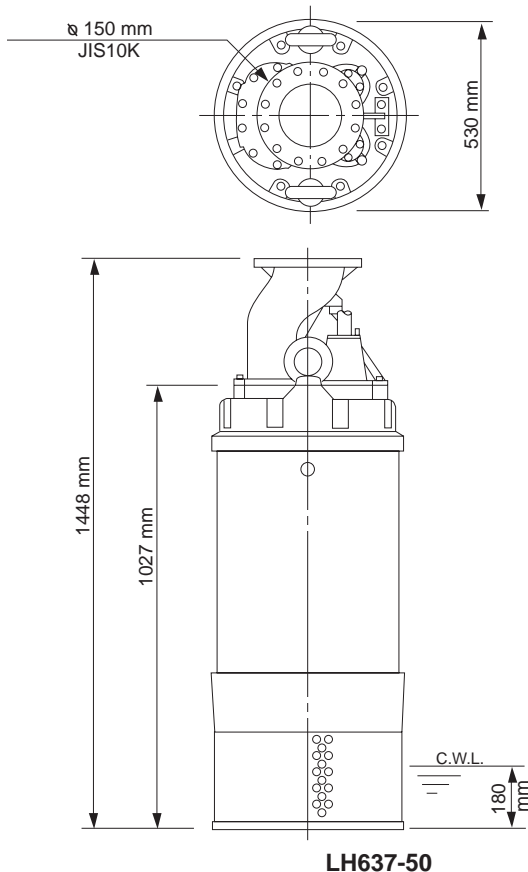
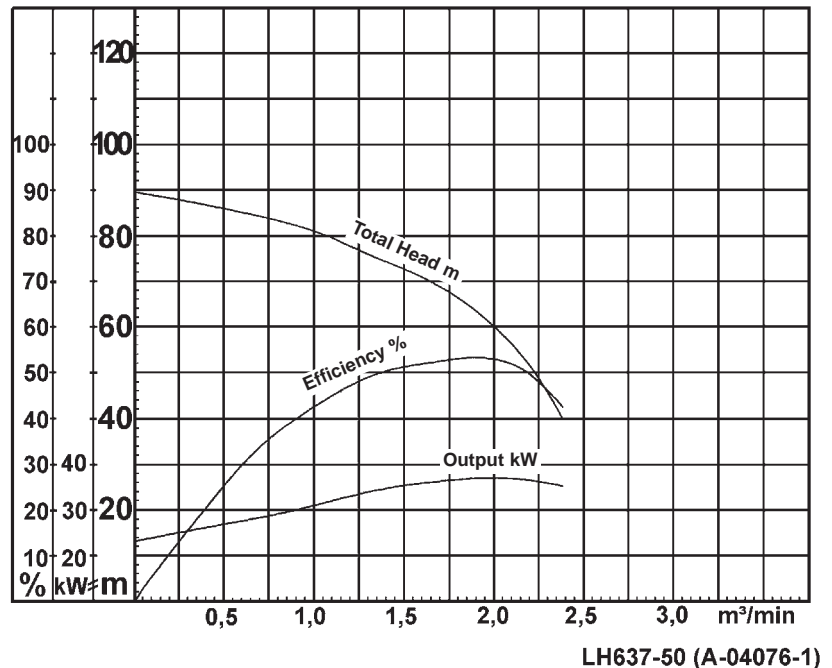


# Data Sheet LH637-50



C.W.L. = Continuous running water level



## Classification

Electric submersible pump  
Protection class IP68  
Depth of submersion max. 50m  
Closed type impeller  
Max. solid handling 6mm  
Suitable for rain water, ground water, sand carrying water

## Electric Motor

Dry-type submersible induction motor,  
Insulation class F, 2 poles, 2940 r.p.m.  
Star / delta start  
Voltage: 400V, 50Hz, 3-phase  
Power input: 42,0kW  
Power output: 37,0kW  
Nominal current: 67,0A  
Start current: 460,0A

## Electric Cable

20m 6Cx22mm²/1Cx14mm²/2Cx2mm²

## Motor Protection

Miniature protectors in windings  
(snap-action bi-metal device)

## Shaft Seal

Double mechanical seal in oil bath  
additional lubrication by oil lifting device  
Primary Seal:  
silicon carbide on silicon carbide  
Secondary Seal:  
silicon carbide on carbon

## Bearings

Shielded ball bearings, maintenance-free

## Materials

Impeller:	Chromium iron casting
Casing:	FC200 (EN-GJL-200)
Mouth ring:	Chromium iron casting
Motor frame:	FC200 (EN-GJL-200)
Shaft:	SUS420J2 (EN-X30Cr13)

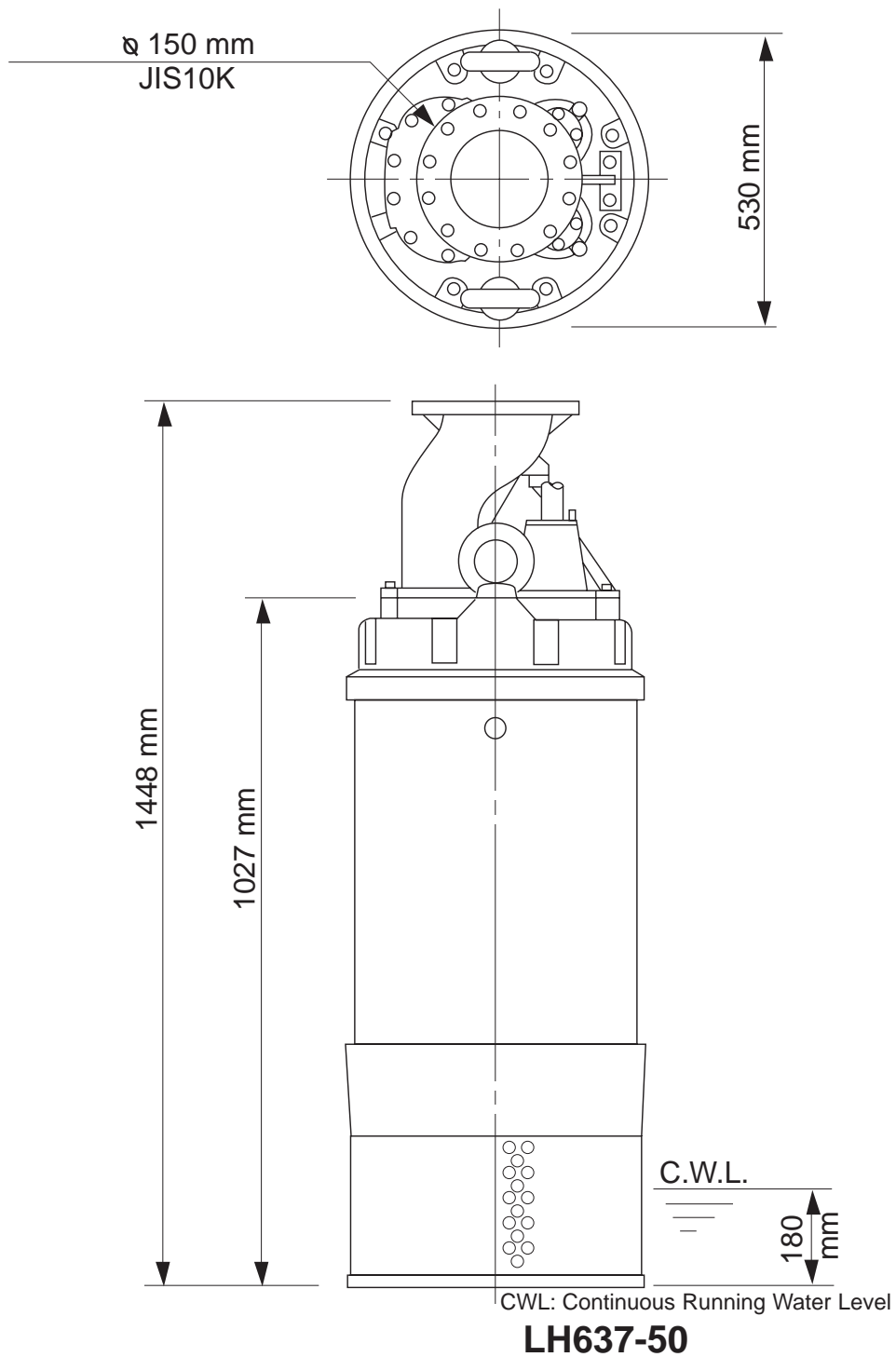
## Discharge Connection

6" (150mm) JIS10K flange

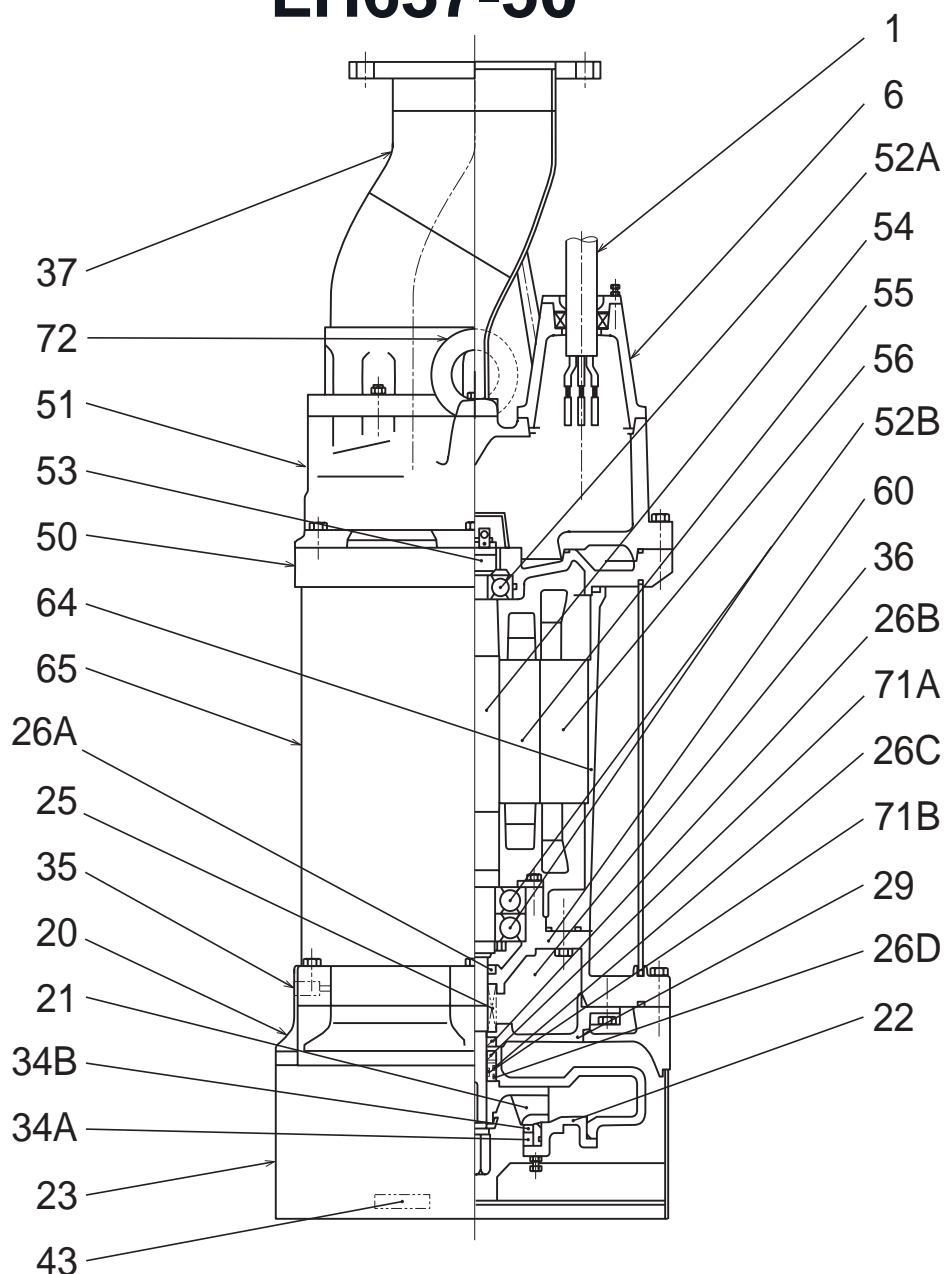
## Weight

495 kg (dry weight of the pump without cable)

# Dimensional Drawing LH637-50



# Sectional Drawing LH637-50



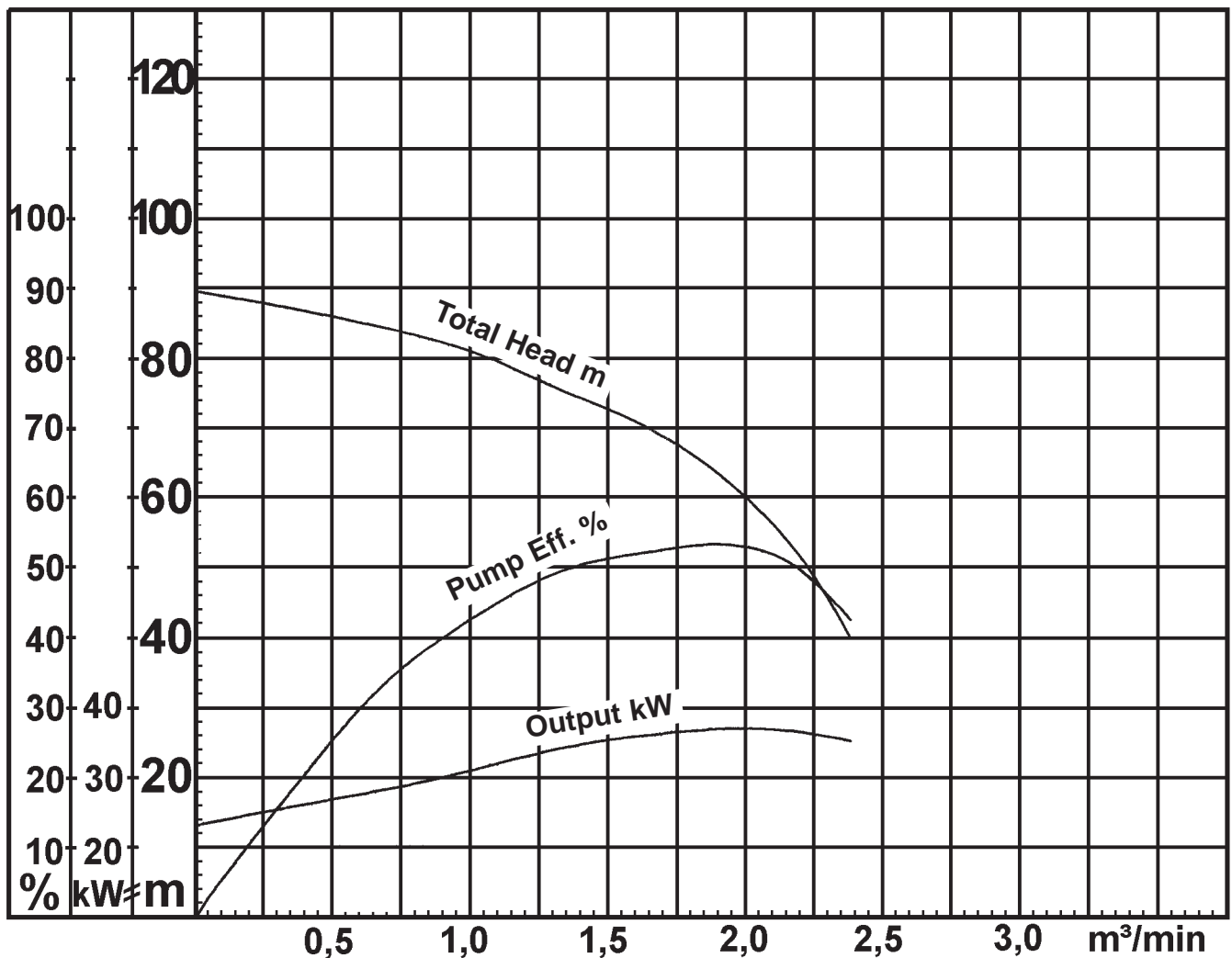
**LH637-50**

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cable	1	20m 9Cx22mm <sup>2</sup>	37	Discharge Pipe	1	SS400 (DIN 1.0040)/Carbon Steel SGP
6	Stuffing Box	1	FC200 (EN-GJL-200)	43	Cathodic Protection Plate	3	Aluminium Alloy ALAP
20	Pump Casing	1	FC200 (EN-GJL-200)	50	Motor Bracket	1	FC200 (EN-GJL-200)
21	Impeller	1	Chromium Iron Casting HiCrFC	51	Head Cover	1	FC200 (EN-GJL-200)
22	Suction Cover	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	6310ZZC3
23	Strainer Stand	1	SS400 (DIN 1.0040)	52B	Lower Bearing	1	6314ZZD2C3
25	Mechanical Seal	1	HT-4550	53	Motor Protector	3	
26A	Oil Seal	1	SC50689	54	Shaft	1	SUS420J2 (EN-X30Cr13)
26B	Oil Seal	1	TC487012	55	Rotor	1	
26C	Oil Seal	1	TCN487012	56	Stator	1	
26D	Labyrinth Ring	1	SUS304 (EN-X5CrNi18-10)	60	Bearing Housing	1	FC200 (EN-GJL-200)
29	Oil casing	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC200 (EN-GJL-200)
34A	Suction Mouth	1	FC200 (EN-GJL-200)	65	Outer Cover	1	SS400 (DIN 1.0040)
34B	Mouth Ring	1	Chromium Iron Casting HiCrFC	71A	Upper Shaft Sleeve	1	SUS403 (EN-X6Cr13)
35	Oil Plug	2	SUS304 (EN-X5CrNi18-10)	71B	Lower Shaft Sleeve	1	SUS403 (EN-X6Cr13)
36	Lubricant		Turbine Oil (ISO VG32)	72	Eyebolt	2	SS400 (DIN 1.0040)

# Pump Performance Curve

## LH637-50

Discharge Bore	150 mm
Total Head	80,0/60,0 m
Capacity	1,0/2,0 m <sup>3</sup> /min
Motor Output	37,0 kW
Motor Input	42,0 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	67,0 A
Starting Current	460,0 A
Poles	2
Revolution	S.S. 2940 r.p.m.
Starting Method	star delta
Insulation Class	F



LH637-50 (A-04076-1)