


2

PART LIST

1

POS	POS OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECS	SHT
A1			small water turbine	oseg_swt_A1_small-water-turbiner.iam	Production		1-2
A2			Explosion	oseg_swt_A2_small-water-turbiner.ipn	Production		3
B			Parts-list	oseg_swt_B_parts-list.xls			4-6
C			Technical notes		Tech. notes	General notes	7
1	AF311	1	front adaptor	oseg_swt_front-adaptor.ipt	Production	CAST IRON	8
2	AF312	1	middle section	oseg_swt_left-side-frame.ipt	Production	CAST IRON	9
3	AF313	1	drain chute	oseg_swt_drain-chute.iam	Production	STEEL C45	10-11
3.1	AF313A	1	back plate	oseg_swt_back-plate.ipt	Production	STEEL C45	12
3.2	AF313B	1	front flange	oseg_swt_front-flange.ipt	Production	STEEL C45	13
3.3	AF313C	1	curved plate	oseg_swt_curved-plate.ipt	Production	STEEL C45	14
3.4	AF313D	2	side plate	oseg_swt_side-plate.ipt	Production	STEEL C45	15
3.5	AF313E	1	front plate	oseg_swt_front-plate.ipt	Production	STEEL C45	16
4	AF314(1)	1	nose	oseg_swt_nose.ipt	Production	see tech. notes	17
5	AF315A	1	stator blading	oseg_swt_stator-blading.ipt	Production	see tech. notes	18
6	AF316A	1	rotor blading	oseg_swt_rotor-blading.iam	Production		
6.1		1	rotor blading	oseg_swt_rotor-blading.ipt	Production	see tech. notes	19
6.2		1	rotor washer	oseg_swt_rotor-washer.ipt	Production	1,5 mm STEEL SHEET	20
7	AF318A	1	diffuser blanding	oseg_swt_diffuser-blanding.iam	Production		
7.1		1	diffuser blanding	oseg_swt_diffuser-blanding.ipt	Production	see tech. notes	21
7.2			diffuser washer	oseg_swt_diffuser-washer.ipt	Production	1,5 mm STEEL SHEET	22
8	AF320A	1	bush	oseg_swt_bush.ipt	Production	see tech. notes	23
9	AF321A	1	slotted disk	oseg_swt_slotted-disk.ipt	Production	ALUMINIUM	24
10	AF321B	2	key	oseg_swt_key.ipt	Standard	key 6 x 6 x 36.0, HARD STEEL	
11			Transmission (hub assembly)	oseg_swt_hub-assembly.iam	Production		25
11.1	AF322	1	shaft	oseg_swt_shaft.iam	Production	STAINLESS STEEL	26
11.2	AF323A	1	hub housing	oseg_swt_hub-housing.ipt	Production	CAST STEEL	27
11.3	AF323B	1	front cap	oseg_swt_front-cap.ipt	Standard	1,5 mm STEEL SHEET	
11.4	AF323C	1	ball bearing	oseg_swt_ball-bearing.ipt	Standard	bearing 206-SX adater and nut G-Y or equivalent part	

Proyect Small water turbine		Created by D. Mosquera		Approved by D. Jeager	
Part Name small-water-turbine		Part Code B1		Document Type part-list	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY		Original drawing from Practical ACTION		License CERN-OHL	
		File Name oseg_swt_A2_small-water-turbine		Version 1	
		Scale		Sheet 4	
				Date 03.03.21	

2


1

2

PART LIST

1

POS	POS OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECS	SHT
D 11.5	AF323D	1	seal	oseg_swt_seal.ipt	Standard	GARLOCK 78*0542	
11.6	AF324	1	big sprocket	oseg_swt_big-sprocket.ipt	Standard	brownign 40P60 - $\frac{1}{2}$ " pich - 60 teeth - Dia.: 9.55"	
11.7	AF325	1	small sprocket	oseg_swt_samll-sprocket.ipt	Standard	brownign N 4024 - $\frac{1}{2}$ " pich - 24 teeth - Dia.: 3.83"	
11.8	AF326	1	chain	oseg_swt_chain.ipt	Standard	brownign N 40 - $\frac{1}{2}$ " pich N 40	
11.9	AF323	3	bolt 3/16" x 32 x 5/16"		Standard		
12	AF327	1	frame	oseg_swt_frame.iam	Production		28-29
12.1	AF327A	4	side angles	oseg_swt_side-angles.ipt	Production	STEEL A36	30
12.2	AF327B	2	top angle	oseg_swt_top-angle.ipt	Production	STEEL A36	31
C 12.3	AF327C	1	top plate	oseg_swt_top-plate.ipt	Production	STEEL A36	32
12.4	AF327D	2	bar	oseg_swt_bar.ipt	Production	STEEL A36	33
12.5	AF327E	4	foundation plate	oseg_swt_foundation-plate.ipt	Production	STEEL A36	34
13	AF328	1	oil bath cover	oseg_swt_oil-bath.iam	Production		35
13.1		1	plate front cover	oseg_swt_plate-front-cover.ipt	Production	2-3 MM STEEL SHEET	36
D 13.2		1	band side cover	oseg_swt_band-side-cover.ipt	Production	2-3 MM STEEL SHEET BENT AND WELDED	37
13.3		1	plate down cover	oseg_swt_plate-down-cover.ipt	Production	2-3 MM STEEL SHEET	38
13.4		1	brake angle cover	oseg_swt_brake-angle-cover.ipt	Production	STEEL A36	39
13.5		1	brake bar cover	oseg_swt_brake-bar-cover.ipt	Production	2-3 MM STEEL SHEET	40
B 14	AF329	1	back oil bath cover	oseg_swt_back-oil-bath-cover.iam	Production		41
14.1		1	plate back cover	oseg_swt_bar-for-plate-front.ipt	Production	2-3 MM STEEL SHEET	42
14.2		2	bar for plate front	oseg_swt_plate-back-cover.ipt	Production	2-3 MM STEEL SHEET	43

Proyect Small water turbine		Created by D. Mosquera		Approved by D. Jeager	
Part Name small-water-turbiner		Part Code B2		Document Type part-list	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY		Original drawing from Practical ACTION		License CERN-OHL	
		File Name oseg_swt_A2_small-water-turbiner		Version turbiner	
		Scale		Quantity 1	
				Sheet 5	
				Date 03.03.21	

2

1


2



1

PART LIST

POS	POS OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECS	SHT
15	AF330	1	Generator	oseg_swt_generator.ipt	Standard	5 KW; 115-230 V;21,5 A; 60Hz	
16	AF331A	20	bolt 5/8"x12 - 2 1/2"		Standard		
17	AF331B	20	nut 5/8"x12		Standard		
18	AF331C	20	plain washer 5/8"		Standard		
19	AF332A	4	bolt 1/2"x12 - 1 1/2"		Standard		
20	AF332B	4	nut 1/2"x12		Standard		
21	AF332C	4	plain washer 1/2"		Standard		
22	AF333A	4	bolt 9/16"x12 - 2"		Standard		
23	AF333B	4	nut 9/16"x12		Standard		
24	AF333C	4	plain washer 9/16"		Standard		
25	AF333D	4	lock washer 9/16"		Standard		
26	AF334A	1	bolt 3/8"x16 - 2"		Standard		
27	AF334B	2	wing nut 3/8"x16		Standard		
28	AF334C	1	plain washer 3/8"		Standard		
29	AF334	4	ALIGNMENT-PIN		Standard	HARD STEEL	

Proyect Small water turbine		Created by D. Mosquera		Approved by D. Jeager		
Part Name small-water-turbiner		Part Code B3		Document Type part-list		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY		Original drawing from Practical ACTION		License CERN-OHL		File Name oseg_swt_A2_small-water-turbiner
				Version 1		Quantity 1
				Scale		Sheet 6
						Date 03.03.21

2



1

D

D

C

C

B

B

A

A