



Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	1	3d views	oho_vsw_vertical-sail-windmill.iam			1
A1	1	3d views	oho_vsw_vertical-sail-windmill.iam			2
A2		Exploded 3d view	oho_vsw_vertical-sail-windmill.ipn			3
B1		Parts list	oho_vsw_vertical-sail-windmill02.xls			4
B2		Parts list	oho_vsw_vertical-sail-windmill02.xls			5
C1		Technical notes				6
C3		Technical notes				7
1.0	1	Tower	oho_vsw_tower.iam			8
1.0		Tower	oho_vsw_tower.ipn			9
1.1	1	Timber 5.5m	oho_vsw_timbers-550.ipt	Production	Wood	10
1.2	1	Timber 3.7m	oho_vsw_timbers-370.ipt	Production	Wood	11
1.3	4	Brackets	oho_vsw_brackets.ipt	Production	Steel C45	12
1.4		Tower bolt	oho_vsw_bolt-M10x130.ipt	Standard	Tower bolt	
1.5	20	Tower nut	oho_vsw_nut-M10.ipt	Standard	Tower nut, M10	
1.6	20	Towr Washer	oho_vsw_Washer-M10.ipt	Standard	Towr Washer, M20	
1.7	16	Tower bolt piercing	oho_vsw_bolt-M10x100.ipt	Standard	Tower bolt piercing, M10 x 100	
1.8	2	Towe eye bolt	oho_vsw_eye-bolts.ipt	Standard	Towe eye bolt, M8 x 12 x 150	
2.0	6	Tenioner	oho_vsw_tenioner.iam			13
2.0	8	Tenioner	oho_vsw_tenioner.ipn			14
2.1	8	Guy wire	oho_vsw_guy-wire.ipt	Production	wire of D: 6mm - total:42,0 m, Galvanized steel	15
2.2	16	Bulldog grips	oho_vsw_rulldog-grips.ipt	Standard	Bulldog grips, Grip 4 mm to 12mm cap., include nut and washers	
2.3	8	Turnbuckles	oho_vsw_turnbuckles.ipt	Standard	Turnbuckles, tensioner for guy of 6 mm	
2.4	8	Angle25	oho_vsw_angle25.ipt	Production	ASTm A36	16
3.0	2	Foundation	oho_vsw_anchor-plate.ipt	Production	Sheet of 10mm, Steel C45	17
4.0	4	Sail frame	oho_vsw_sail-frame.ipt	Production	3m lengths of galvanised conduit D:20mm - Std, Steel Galvanized	18
5.0	8	Rotor arm	oho_vsw_rotor-arm.iam			19
5.0	8	Rotor arm	oho_vsw_rotor-arm.ipn			20
5.1	8	Arms	oho_vsw_arms.ipt	Production	Galvanized Steel	21
5.2	8	Keeklamps	oho_vsw_Keeklamps.ipt	Standard	Keeklamps, 1/2" - will fit 20mm conduit, Plastic	

PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
Vertical Axis Sail Windmill		D. Mosquera	A. Morillo	12/07/2021	1.0
PART NAME		FILE NAME			POS
Parts list		oho_vsw_vertical-sail-windmill02.xls			B1
DEVELOPED BY		REDESIGNED BY		DOC. TYPE	MATERIAL
Low Energy Systems		 OPEN SOURCE ECOLOGY GERMANY		Parts list	
				LICENCE	SCALE
		OSEG		CC-BY-SA 4.0	4 / 27

Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
5.3	16	Rotor bolt	oho_vsw_boltM6x25.ipt	Standard	Rotor bolt	
6.0	1	Axle	oho_vsw_axle.iam			21
6.0	1	Axle	oho_vsw_axle.ipn			22
6.1	1	Axle	oho_vsw_axle.ipt	Production	Steel C45	23
6.2	2	Steel plate	oho_vsw_steel-plate.ipt	Production	Steel C45	24
6.3	2	Bearing	oho_vsw_bearingD25.ipt	Standard	Bearing , D: 25,0 - UCP type - bridge type bearings with set screw	
6.4	16	Axle bolt 1	oho_vsw_boltM6x40.ipt	Standard	Axle bolt 1, M6 x 40 DIN 933	
6.5	16	Axle nut 1	oho_vsw_nutM6.ipt	Standard	Axle nut 1, M6 DIN 934	
6.6	16	Axle Washer 1	oho_vsw_WasherM6.ipt	Standard	Axle Washer 1, D: 6,0	
6.7	8	Axle bolt 2	oho_vsw_bolt-M10x130.ipt	Standard	Axle bolt 2, M10 x 130 DIN 933	
6.8	4	Axle nut 2	oho_vsw_nut-M10.ipt	Standard	Axle nut 2, M6 DIN 934	
6.9	4	Axle washer 2	oho_vsw_Washer-M10.ipt	Standard	Axle washer 2, D: 10	
7.0	4	Sail	oho_vsw_sail.iam			25
7.0	4	Sail	oho_vsw_sail.ipn			26
7.1	4	Sail	oho_vsw_canvas.ipt	Production	e=2,0mm, canva of linen or synthetic	27
7.2	8	Cord	oho_vsw_cord.ipt	Standard	Cord, 550 mm longt, cord 6mm 3 twisted, Polypropylene	
7.3	8	Eyelet	oho_vsw_eyelet.ipt	Standard	Eyelet, snap eyelet for canva D:8mm, Bronze	

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PART NAME		FILE NAME						POS	
Parts list		oho_vsw_vertical-sail-windmill02.xls						B2	
DEVELOPED BY		REDESIGNED BY		DOC. TYPE		MATERIAL		QUANTITY	
Low Energy Systems		 OPEN SOURCE ECOLOGY GERMANY		Parts list					
		OSEG		LICENCE		SCALE		SHEET	
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