



Parts list

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A2	1	Exploded 3d view				3
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B2	1	Parts list				5
C1		Technical notes				6
1.0	1	Sails top assembly	Sails top assembly			7-8
1.1	4	Drum	Drum	Production	Steel drum 55 gallon	9
1.2	4	Sails support	Sails support	Production	50.800 x 152.400 Hardwood	10
1.3	2	Wheel support	Wheel support	Production	50.800 x 152.401 Hardwood	11
1.4	8	Cables		Buy	OD 3 long 1750	
1.5	4	Castors		Buy	OD 440	
1.6	8	Sails bolt		Standard	DIN 933 - M14 x 150	
1.7	8	Sails nut		Standard	DIN 555-5 - M14	
1.8	16	Drum bolt		Standard	DIN 960 - M10 x 1 x 70	
1.9	16	Drum nut		Standard	DIN 439 - M10 x 1	
1.10	4	Sails flange connections		Standard	ASME B16.5 Flange Slip-On Welding - Class 150	
2.0	1	Mechanism assembly	Mechanism assembly			12-13
2.1	1	Axle A	Axle A	Production	OD 33 ASTM A36	14
2.2	1	Axle B	Axle B	Production	OD 33 ASTM A36	15
2.3	1	Pulley axle	Pulley axle	Production	OD 29 DIN C45	16
2.4	1	Small pulley	Small pulley	Production	OD 79 DIN C46	17
2.5	1	Large pulley	Large pulley	Production	OD 321 DIN C47	18
2.6	1	Pump stroke	Pump stroke	Production	OD 300 DIN C48	19
2.7	1	Bearing support	Bearing support	Production	DIN1026-1 - U 100 - 400	20
2.8	2	Pulley base A	Pulley base A	Production	DIN1026-1 - U 80 - 250	21
2.9	2	Pulley base B	Pulley base B	Production	DIN1026-1 - U 80 - 255	22
2.10	4	Pulley base support	Pulley base support	Production	DIN1026-1 - U 80 - 420	23
2.11	1	V-Belt		Buy	8-DIN 2215 Long 3355.53	

PROJECT Wind turbine with vertical metal drum sails	CREATED BY J. Rosciano	APPROVED BY A. Morillo	DATE 27/10/2021	VERSION 1.1
PART NAME Parts list	FILE NAME			POS B1
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POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
2.12	2	Bearing		Buy	SKF_P2B 102-FM	
2.13	1	Axle bearing		Buy	BS 292 - SKF ALC 1 3/8	
2.14	3	Flange connections		Standard	ASME B16.5 Flange Slip-On Welding - Class 150	
2.15	1	rod	rod	Produccion	OD 26.670 ASME B36.10M Pipe 3/4 - Schedule 40	24
2.16	1	Pump		Buy	Handpump	
2.17	8	Bolts flange connections		Standard	DIN 933 - M14 x 60	
2.18	8	Nuts flange connections		Standard	DIN 555-5 - M14	
2.19	4	Bolts bearing		Standard	DIN 6921 - M14 x 45	
2.20	4	Nuts bearing		Standard	DIN 555-5 - M14	
3.0	1	Structure assembly	Structure assembly			25-26
3.1	1	Floor	Floor	Production	10 x 2000 Hardwood	27
3.2	4	Tower leg	Tower leg	Production	DIN 59 410 - 100x100x4	28
3.3	8	Cross	Cross	Production	DIN 59 410 - 100x100x4	29
3.4	4	Top	Top	Production	DIN 59 410 - 100x100x5	30
3.5	4	Base	Base	Production	DIN 59 410 - 100x100x4	31
3.6	2	Base support	Base support	Production	101.6x 25.4 Hardwood	32
4.0	1	Stairs assembly	Stairs assembly			33-34
4.1	2	Stairs Leg	Stairs Leg	Production	65 x 10 ASTM A36	35
4.2	16	Stairs step	Stairs step	Production	OD 20 ASTM A36	36
4.3	2	Conn plate	Conn plate	Production	65x10 ASTM A36	37
5.0	1	Foundation assembly	Foundation assembly			38-39
5.1	1	Foundation A	Foundation A	Production	5000x500x5000 Concrete	40
5.2	1	Foundation B	Foundation B	Production	400x350x400 Concrete	41

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Wind turbine with vertical metal drum sails	J. Rosciano	A. Morillo	27/10/2021	1.1
PART NAME	FILE NAME			POS
Parts list				B2
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