



Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	1	3d views	hmz_bsm_bandsaw-mill.iam			1
A2	1	Exploded 3d view	hmz_bsm_bandsaw-mill.ipn			2
B1	1	Parts list	hmz_bsm_bandsaw-mill.csv			3
B2	1	Parts list	hmz_bsm_bandsaw-mill.csv			4
B3	1	Parts list	hmz_bsm_bandsaw-mill.csv			5
B4	1	Parts list	hmz_bsm_bandsaw-mill.csv			6
C1	1	Technical notes				7
1.0	1	Carriage assembly	Carriage assembly.iam			8-9
1.1	1	Top cross brace	Top cross brace.ipt	Production	DIN 1026-2 - UPE 100	10
1.2	2	Upright post	Upright post.ipt	Production	EN 10210-2 - 90 x 90 x 5	11
1.3	2	Engine support frame	Engine support frame.ipt	Production	DIN EN 10056-1 - L70x70x6	12
1.4	1	Engine support frame base	Engine support frame base.ipt	Production	Thk 9,525 ASTM A36	13
1.5	2	Mid cross brace	Mid cross brace.ipt	Production	DIN EN 10056-1 - L100x100x8	14
1.6	2	Slide	Slide.ipt	Production	EN 10210-2 - 100 x 100 x 5	15
1.7	2	Carriage foot	Carriage foot.ipt	Production	DIN 1026-2 - UPE 120	16
1.8	1	Raise handle support	Raise handle support.ipt	Production	DIN1026-1 - U 100	17
1.9	4	Wheel		Buy	V Groove Roller Diameter: 4", Cap: 567 kg	
2.0	1	Bed assembly	Bed assembly.iam			18-19
2.1	2	Steel channel	Steel channel.ipt	Production	DIN1026-1 - U 100 ASTM A36	20
2.2	6	Cross brace	Cross brace.ipt	Production	DIN 59370 - 50 x 6 ASTM A36	21
2.3	2	Drive rall	Drive rall.ipt	Production	DIN 59370 - 35 x 4 ASTM A36	22
2.4	4	Bed stop	Bed stop.ipt	Production	DIN 174 - 40 x 8	23
2.5	4	Horizontal support	Horizontal support.ipt	Production	Pipe ANSI - 1 1/2 x 0.145	24
2.6	8	Vertical support	Vertical support.ipt	Production	Pipe ANSI - 1 1/2 x 0.145	25
2.7	8	Guide support	Guide support.ipt	Production	Pipe ANSI - 1 1/2 x 0.145	26
2.8	8	Guide	Guide.ipt	Production	DIN 59370 - 25 x 3 ASTM A36	27
2.9	8	Bolt M5		Standard	DIN 933 - M5 x 16	
2.10	8	Nut M5		Standard	DIN 555-5 - M5	
3.0	1	Wheel bearing assembly	Wheel bearing assembly.iam			28-29
3.1	1	Bracket A	Bracket A.ipt	Production	DIN EN 10056-1 - L100x100x8 ASTM A36	30

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Bandsaw mill	J. Rosciano	A. Morillo	11/09/2021	1.1
PART NAME	FILE NAME			POS
Parts list	hmz_bsm_bandsaw-mill.csv			B1
PUBLISHED BY	DOC. TYPE	MATERIAL		QUANTITY
 <b>OPEN HARDWARE OBSERVATORY</b> Free Blueprints for Sustainable Development	Parts list			
	LICENCE	SCALE		SHEET
OHO e.V.	CC-BY-SA 4.0			3 /71


## Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
3.2	1	Adjustment plate A	Adjustment plate A	Production	Thk 6.35 ASTM A36	31
3.3	2	Sheet A	Sheet A.ipt	Production	DIN 174 - 100 x 5	32
3.4	2	Sheet B	Sheet B.ipt	Production	EN 10058 - 100 x 5	33
3.5	2	Sheet C	Sheet C.ipt	Production	EN 10058 - 60 x 5	34
3.6	2	Nut M18		Standard	DIN 439 - M18	
3.7	2	Bolt M18		Standard	DIN 933 - M18 x 25	
4.0	1	Tensioner bolt assembly	Tensioner bolt assembly.iam			35-36
4.1	1	Tensioner A	Tensioner A.ipt	Production	Thk 3 ASTM A36	37
4.2	1	Tensioner B	Tensioner B.ipt	Production	Thk 3 ASTM A36	38
4.3	1	Body bolt	Body bolt.ipt	Production	OD 19.05 ASTM A36	39
4.4	1	Nut tensioner		Standard	DIN 555-5 - M20.ipt	
5.0	1	Blade guide assembly	Blade guide assembly.iam			40-41
5.1	2	Blade guide frame	Blade guide frame.ipt	Production	EN 10210-2 - 50 x 50 x 3	42
5.2	4	Adjustment bracket	Adjustment bracket.ipt	Production	DIN 174 - 70 x 6	43
5.3	2	Square stock	Square stock.ipt	Production	DIN 174 - 70 x 8	44
5.4	2	Blade guide slide	Blade guide slide.ipt	Production	DIN EN 10305-5 - 15 x 15 x 1.25	45
5.5	2	Bar support	Bar support.ipt	Production	EN 10059 - 12-100	46
5.6	2	Bracelet	Bracelet.ipt	Production	OD 15 ASTM A36	47
5.7	2	Bolt M10		Standard	DIN 976-1 - M10 x 80	
5.8	4	Bolt M4		Standard	DIN 933 - M4 x 7	
5.9	4	Nut M4		Standard	DIN 555-5 - M4	
5.10	6	Whaser 8.4		Standard	DIN 125 - A 8.4	
5.11	18	Nut M8		Standard	DIN 934 - M8 x 1	
5.12	2	Nut bracelet		Standard	DIN 555-5 - M8	
5.13	6	Bearing guide		Standard	DIN 615 - E 8 - 8 x 24 x 7	
5.14	2	Stud 18		Standard	DIN 976-1 - M8 x 1 x 18	
5.15	4	Stus 110		Standard	DIN 976-1 - M8 x 1 x 110	
6.0	1	Guard assembly	Guard assembly			48-49
6.1	2	Sheet metal A	Sheet metal A.ipt	Production	Thk 4.763 ASTM A36	50
6.2	2	Sheet metal B	Sheet metal B.ipt	Production	Thk 4.763 ASTM A36	51

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Bandsaw mill	J. Rosciano	A. Morillo	11/09/2021	1.1
PART NAME	FILE NAME			POS
Parts list	hmz_bsm_bandsaw-mill.csv			B2
PUBLISHED BY	DOC. TYPE	MATERIAL		QUANTITY
 OPEN HARDWARE OBSERVATORY Free Blueprints for Sustainable Development	Parts list			
OHO e.V.	LICENCE	SCALE		SHEET
	CC-BY-SA 4.0			4 /71

Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
6.3	4	Sheet metal C	Sheet metal C	Production	Thk 4.763 ASTM A36	52
6.4	2	Sheet metal D	Sheet metal D	Production	Thk 4.763 ASTM A36	53
6.5	2	Guard support	Guard support.ipt	Production	DIN 174 - 20 x 3	54
7.0	1	Belt and tensioner assembly	Belt and tensioner assembly.iam			55-56
7.1	1	Belt tensioner support	Belt tensioner support.ipt	Production	EN 10210-2 - 20 x 20 x 2 ASTM A36	57
7.2	1	Belt tensioner support B	Belt tensioner support B.ipt	Production	EN 10210-2 - 20 x 20 x 2	58
7.3	1	Tensioner	Tensioner.ipt	Production	DIN 174 - 18 x 4	59
7.4	1	Bended part	Bended part.ipt	Production	DIN 174 - 18 x 4 ASTM A36	60
7.5	1	Belt tensioner	Belt tensioner.ipt	Production	OD 50 ASTM A36	61
7.6	1	Bolt tensioner A		Standard	DIN 933 - M8 x 14	
7.7	1	Bolt tensioner B		Standard	DIN 933 - M8 x 28	
7.8	1	Nut tensioner		Standard	DIN 555-5 - M8	
8.0	1	Raisen and lowering mechanism assembly	Raisen and lowering mechanism assembly.iam			62-63
8.1	2	Mechanism support	Mechanism support.ipt	Production	Thk 6 ASTM A36	64
8.2	1	Lever	Lever.ipt	Production	OD 10 ASTM A36	65
8.3	2	Nut support		Standard	DIN 555-5 - M20	
8.4	2	Stud mechanism		Standard	DIN 976-1 - M20 x 1000	
8.5	2	Washer support		Standard	DIN 125 - A 21	
8.6	2	Collar		Standard	DIN 705 - B20	
8.7	1	Needle roller bearing		Standard	DIN 5405 T1 - K - 20 x 24 x 10	
8.8	1	Stud tensioner		Standard	DIN 976-1 - M20 x 100	
8.9	2	Washer tensioner		Standard	DIN 125 - A 21	
8.10	2	Nut tensioner		Standard	DIN 555-5 - M20	
8.11	3	Roller Chain Sprocket		Standard	Teeth:16, Dp: 32.549 mm	
8.12	1	Bush chain		Standard	DIN 8164:1999 bush chain	
9.0	1	Drive assembly	Drive assembly.iam			66-67
9.1	1	Drive pulley	Drive pulley.ipt	Production	OD 304.800 DIN C45	68
9.2	1	Key connection		Standad	ISO 2491 - C 8 x 5	
9.3	1	V-Belt transmission		Standard	V-Belt DIN 2215 10 x 1180	
9.4	1	Grooved pulley	Grooved pulley.ipt	Production	OD 65 DIN C45	69
9.5	1	Shaft	Shaft .ipt	Production	OD 12.5 ASTM A36	70

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Bandsaw mill	J. Rosciano	A. Morillo	11/09/2021	1.1
PART NAME	FILE NAME			POS
Parts list	hmz_bsm_bandsaw-mill.csv			B3
PUBLISHED BY	DOC. TYPE	MATERIAL		QUANTITY
 <b>OPEN HARDWARE OBSERVATORY</b> Free Blueprints for Sustainable Development	Parts list			
	LICENCE	SCALE	SHEET	
OHO e.V.	CC-BY-SA 4.0			5 /71

## Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
9.6	1	Bearing		Buy	SKF P2B 102 FM:1	
9.7	2	Hub flange bansaw		Buy	Bolt circle diameter 114.3 Bolt size M12x1.25	
9.8	1	Blade		Buy	metal cutting bandsaw blade, tpi 10, length 4365 mm	
9.9	2	Car wheel		Buy	OD 13" ring	
9.10	1	Collar drive	Collar drive.ipt	Standard	DIN 705 - B25	
9.11	1	Motor		Buy	12 HP WEG	
9.12	1	Adjustment plate B	Adjustment plate B.ipt	Production	Thk 6.35 ASTM A36	71
9.13	1	Bracket B	Bracket B.ipt	Production	DIN EN 10056-1 - L100x100x8 ASTM A36	72
9.14	2	Bolt M14		Standard	DIN 933 - M14 x 40	
9.15	2	Nut M14		Standard	DIN 555-5 - M14	
9.16	2	Nut M18		Standard	DIN 439 - M18	
9.17	2	Bolt M18		Standard	DIN 933 - M18 x 25	

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Bandsaw mill	J. Rosciano	A. Morillo	11/09/2021	1.1
PART NAME	FILE NAME			POS
Parts list	hmz_bsm_bandsaw-mill.csv			B4
PUBLISHED BY	DOC. TYPE	MATERIAL		QUANTITY
 OPEN HARDWARE OBSERVATORY Free Blueprints for Sustainable Development	Parts list			
OHO e.V.	LICENCE	SCALE		SHEET
	CC-BY-SA 4.0			6 /71