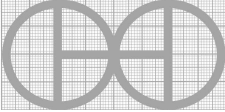


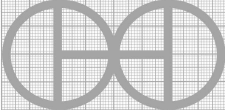
Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	-	3d views	tpi_how_hand-operated-winnower.iam	-	-	1
A2	-	Exploded 3d view	tpi_how_hand-operated-winnower.ipn	-	-	2
B1	-	Parts list	tpi_how_hand-operated-winnower.csv	-	-	3-4
C1	-	Technicl notes	-	-	-	5
1.0	-	Saddle	Saddle.ipn	-	-	6
1.1	4	Leg	Leg.ipt	Production	Hardwood 20mm	7
1.2	2	Long side member	Long side member.ipt	Production	Hardwood 20mm	8
1.3	2	Short side member	Short side member.ipt	Production	Hardwood 20mm	9
1.4	2	Side rail	Side rail.ipt	Production	Hardwood 18mm	10
1.5	24	Wood screw	-	Standard	DIN 97 screw 4x35mm	-
2.0	-	Winnower body	Winnower body.ipn	-	-	11
2.1	1	Front panel	Front panel.ipt	Production	Hardwood 18mm	12
2.2	1	Back panel	Back panel.ipt	Production	Hardwood 18mm	13
2.3	2	Side panel	Side panel.ipt	Production	Hardwood 18mm	14
2.4	1	Stop	Stop.ipt	Production	Hardwood 18mm	15
2.5	2	Central mount	Central mount.ipt	Production	Hardwood 32mm	16
2.6	1	End mount	End mount.ipt	Production	Hardwood 32mm	17
2.7	14	Wood screw	-	Standard	DIN 97 screw 4x30mm	-
2.8	32	Wood screw	-	Standard	DIN 97 screw 4x45mm	-
3.0	-	Wind case	Wind case.ipn	-	-	18
3.1	1	Drum body A	Drum body A.ipt	Production	Plywood 5mm	19
3.2	1	Drum body B	Drum body B.ipt	Production	Plywood 5mm	20
3.3	3	Spacer	Spacer.ipt	Production	Hardwood 20mm	21
3.4	1	Drum cover	Drum cover.ipt	Production	1mm thick alum alloy	22
3.5	1	Backing strip	-	Production	Plywood 5mm	23
3.6	1	Stiffener	-	Production	Plywood 18xmm	24
3.7	1	Top board A	-	Production	Plywood 18mm	25
3.8	1	Gusset A	Gusset A	Production	Hardwood 34mm	26
3.9	2	Side board	Side board	Production	Plywood 5mm	27
3.10	1	Top board B	-	Production	Plywood 5mm	28
3.11	2	Gusset B	-	Production	Hardwood 20x8x81 mm	-

PROJECT Hand Operated Winnower for groundnut		CREATED BY J. Zeron	APPROVED BY A. Morillo	DATE 09/08/2021	VERSION 1.0
PART NAME Parts list		FILE NAME tpi_how_hand-operated-winnower.csv			POS B1
DEVELOPED BY Tropical Products Institut		REDESIGNED BY  OHO e.V.	DOC. TYPE Parts list	MATERIAL CC-BY-SA 4.0	QUANTITY 3 /45
			LICENCE CC-BY-SA 4.0	SCALE	SHEET 3 /45

Parts list

POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
3.12	1	Cover under	Cover under.ipt	Production	1mm thick alum alloy	29
3.13	1	Cover top	Cover top.ipt	Production	1mm thick alum alloy	30
4.0	-	Large grain chute	Large grain chute.ipn	-	-	31
4.1	2	Panel A	Panel A.ipt	Production	Plywood 5mm	32
4.2	1	Panel B	-	Production	Plywood 5mm	33
4.3	1	Panel C	-	Production	Plywood 5mm	34
4.4	1	Panel D	Panel D.ipt	Production	Plywood 5mm	35
5.0	-	Chute	Chute.ipn	-	-	36
5.1	2	Panel A	Panel A.ipt	Production	Plywood 5mm	37
5.2	1	Panel B	-	Production	Plywood 5mm	38
6.0	-	Table	Table.ipn	-	-	39
6.1	1	Table	Table.ipt	Production	Hard wood 18mm	40
6.2	1	Back block	Back block.ipt	Production	Hard wood 20x44mm	41
6.3	2	Leg	Leg.ipt	Production	Hard wood 32x44mm	42
6.4	5	Wood screw	-	Standard	DIN 97 screw 4x35mm	-
7.0	-	Fan components	Fan components.ipn	-	-	43
7.1	1	Body	Body.ipt	Production	Hard wood 75mm	44
7.2	8	Blade	Blade.ipt	Production	Hard wood 5mm	45
7.3	1	Pin	-	Production	Steel C45 12x148mm	-
7.4	1	Pulley wheel 300 mm	-	Buy	12mm single groove fixed hole pulley, cast iron 300mm	-
7.5	1	Pulley wheel 75 mm	-	Buy	12mm single groove fixed hole pulley, cast iron 75mm	-
7.6	1	Short shaft	-	Production	Steel C45 12x95mm	-
7.7	1	Main shaft	-	Production	Steel C45 12x140mm	-
7.8	1	Back stop	-	Standard	DIN 431 nut hex 12mm	-
7.9	1	Socket screw	-	Standard	DIN 912 M10x25mm	-
7.10	3	Pillow block	-	Buy	Pillow block bearing, 12mm bore diameter, cast iron	-
7.11	6	Stud	-	Standard	DIN 553 M8x85mm	-
7.12	12	Nut	-	Standard	DIN 439 Nut M8	-
7.13	1	Belt	-	Buy	Belt 12mm DIN 7721 length 1188mm	-

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PART NAME Parts list		FILE NAME tpi_how_hand-operated-winnower.csv			POS B1
DEVELOPED BY Tropical Products Institut		REDESIGNED BY  OHO e.V.	DOC. TYPE Parts list	MATERIAL LICENCE CC-BY-SA 4.0	QUANTITY SCALE SHEET 4 /45