

AP330ST

330mm Surface Thicknesser

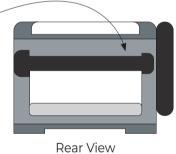


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The machine's **Serial Number** is located on the specification label as shown.





The symbols below advise the correct safety procedures when using this machine.



Fully read manual and safety instructions before use



Ear protection should be worn



Eye protection should be worn



Dust mask should be worn



HAZARD

WHAT'S IN THE BOX









Α	Benchtop Thicknesser	1
В	Table Rise & Full Handwheel Knob & Caphead Screw	1
С	Dust Extraction Outlet	1
D	Handle Torx Screwdriver TZ25 & 4mm Hex Key	1

The following is a list of safety precautions you must consider when using a Thicknesser:



! ALWAYS REMEMBER TO DISCONNECT THE POWER TO THE THICKNESSER WHEN MAKING REPAIRS OR ADJUSTING BLADES AND GUARDS.



! ALWAYS REMEMBER TO READ THROUGH THE MACHINE INSTRUCTIONS SUPPLIED.

- Eye protection, ear protection, respiratory protection and chip extraction are highly recommended when operating this machine.
- Do not wear gloves, loose clothing, jewellery, or any dangling objects when operating a Thicknesser and ensure that long hair is tied up out of the way.
- All guards must be in place and fully operational. If a guard seems to be missing or damaged, adjust, replace or repair immediately.
- Ensure that all visible electrical components (cables, switches) are in good condition without damage.
- Hands and fingers must be kept clear of the blades,
- Use only the recommended blade size & type.
- Ensure all blades are sharp & in good condition.
- The blades must be adjusted in accordance with the instruction manual.

- Never thickness plane small pieces 12" in length minimum.
- Long material should be supported at the same height as the thicknesser table
- Ensure you are comfortable before you start work, balanced, not over reaching.
- Do not use the machine if you are under the influence of drugs or alcohol, tired or distracted.
- Do not allow children to operate the machine.
- Do not use the machine in an excessively damp or wet environment.
- Never leave the machine unattended when it is running.
- Keep the table top & surrounding work area free from excessive dust & debris to help prevent slipping or tripping.
- Ensure that the machine is stable on the floor, fixed to the bench and wheel bases if used are locked off.

More safety information can be found at: http://www.hse.gov.uk/pubns/wis17.pdf

Fig 01-02



1. Place the thcknesser (A) on a flat and lever surface and fold both front & rear extention tables down, see fig 01-02.



- **2.** Remove all accessories parts from inside the machine, see fig 03.
- **3.** Locate the rise and full handwheel knob and caphead screw (B). Rotate the rise & full wheel to the side of the thicknesser until the threaded hole in the wheel is in line with the elongated slot in the frame.
- **4.** Inset the knob (B) into the holes recess in the wheel assembly, introduce the Cap screw through the elongated slot from inside the machine and secure the knob in place using the supplied 4mm Hex key, see fig 04-05.



5. Find the dust extraction hood. Slide the extractor (C) into the space that occupied the cutter block housing see fig 06. Gently push home until the extractor inlet slots over the motor's fan outlet, see fig 07. Secure in place using the two Cap screws on either side of the extractor moulding, see fig 08.



NOTE: Dust and debris moving inside the plastic extraction hose may cause a build up of static electricity. This can cause a potential hazard especially with fine dust. The extraction outlet incorporates a 'Anti-Static' discharge cable. Secure the connector to the frame using the power cable P-Clip, see fig 08.



Continues over...

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ASSEMBLY

7. Unlock the cutter block head unit by rotating the locking lever to the left, Note: this is located above the rise and full handwheel, see fig 09-10.





8. Turn the rise and full wheel clockwise to raise the head sufficiently to remove the polystyrene blocks, see fig 11-12.





8 Pre-Set Depth Stop

Save time on setup with 8 preset depth stops at the following common timber thicknesses: 3.2mm, 6.35mm, 12.7mm, 19mm, 25.4mm, 31.75mm, 38mm and 44.5mm



Levelling the Tables

For storage & transportation the infeed & outfeed support tables are folded in the up position, for use these tables will need to be folded down, see fig 13.



Before use the table will need to be levelled with the main planer table.

- **1.** Ensure that the planer is disconnected from its power source
- 2. Fold both tables down.
- **3.** Place a straight edge / clean spirit level through the planer & rest it on the tables, see fig 14
- **4.** Check to see if there are any large gaps underneath the straight edge, see fig 15
- **5.** To reduce the gaps & align the tables first lift the tables & release the lock nuts, see fig 16
- **6.** Adjust the stop screw until the folded support table appears level with the main planer table, repeat both sides for both the infeed & out feed tables, see fig 17-18













Ensure that the tables are cleaned and waxed ready for the first use

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Setting the Timber Thickness Scale

- 1. Using a scrap fairly flat piece of timber, measure the thickness of the timber at each corner, see fig 19
- 2. Ensure that the cutter head is unlocked, then adjust the cutter head height to match your timber measurement then relock the cutter head, see fig 20.
- **3.** Switch 'ON' the thicknesser and wait until it reaches full speed.
- **4.** Feed a piece of timber through as per operation instruction on page 9, see fig 21.
- 5. Switch 'OFF' and wait until it comes to a complete stop.
- **6.** Compare the measurement on the timber with the reading on the scale, see fig 22.
- 7. If the reading is different, adjust the scales pointer by loosening the two screws & moving the scale, see fig 23.











Securing to the Workbench

It is recommended to secure the planer to the workbench when in use, for this we suggest mounting your planer to a baseboard, see fig 24.



- 1. Choose a board around 50% larger than the planers footprint / base size & at least 16mm thick.
- **2.** Position the planer central to the baseboard & mark the four mounting holes in the planer base, see fig 25.
- **3.** Drill the four holes to suit the bolts using (70mm x M8 recommended), to ensure that the board sits flat & stable on the workbench or trestles counter bore the holes slightly from the underside, see fig 26.
- **4.** Fix the planer to the baseboard , bolting from the underside, see fig 27.
- **5.** Then simply clamp the baseboard & planer to the workbench or trestle, see fig 28.









OPERATION

Before using the machine you must ensure that the machine has been set up with the tables levelled & the scale set. Also ensure that the tables are clean, waxed and the extractor has been connected.

For the best results it is advisable to have the flattest side of the timber facing down on the table. If a satisfactory "flat" side cannot be found then it may be wise to flatten off one side with either a surface planer or hand plane. If the timber seems to be crowned then feed the timber through crown up, see fig 29.



1. Measure the largest/thickest section of the timber, check this at all four corners of the timber, see fig 30.



2. Set the thicknesser cutter head to this dimension using the depth scale on the side of the machine and lock it off, see fig 31.



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OPERATION

- **3.** Press the green "on" button & wait for the machine to come up to full speed.
- **4.** Place the timber on the infeed table & slowly advance the timber towards the cutter head, see fig 32.
- **5.** The depth of cut scale will give you an indication of how much material will be removed, see fig 33.
- **6.** Allow the machine to pick up the timber & pull it through the cutter head, ensure that long lengths of timber are supported, see fig 34.
- 7. Move to the rear of the machine to support the timber as it is fed through the cut, do not pull it through, allow the feed rollers to feed the timber through, see fig 35.
- **8.** The first pass will only very lightly contact the timber, to remove more timber & completely it clean up then simply wind the head down, see fig 36.
- **9.** Once the first side is clean & planed then flip the timber over to plane the other side taking it down incrementally down to your desired width.
- **10.** It is perfectly ok to thickness the narrow edge of the timber, a minimum of 20mm is recommended, see fig 37.















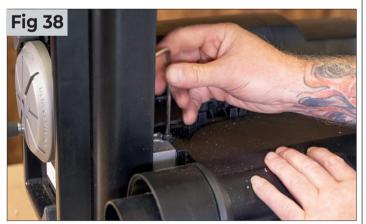
IT IS IMPORTANT NOT TO OVERLOAD THE PLANER, FOR HARDWOODS & WIDE TIMBER BOARDS (150MM+) IT IS RECOMMENDED TO REDUCE THE DEPTH CUT FOR EACH PASS DOWN TO 0.5MM - 1MM.

There are 26 HSS square cutters in total each with 2 cutter edges across the 330mm cutting width, after many hours of use these cutters will need rotating or replacing



DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE CONTINUING!

- 1. Undo the 2 cap screws and remove the plastic extraction chute, see fig 38.
- 2. Brush all debris from the cutter/cutters that are to be rotated or changed, see fig 39.
- **3.** Using only the tool provided undo the countersink Torx screw, see fig 40.
- **4.** Lift & twist the cutter so that the fresh sharp edge faces downwards, ensuring that there is no debris under the cutter & the cutter is **seated correctly**, see fig 41.
- **5.** Retighten the countersink Torx screw & repeat if numerous cutters seem blunt or damaged, see fig 42.
- **6.** NB Each cutter has a rotation marker to help you monitor which edges have been used NB the cutting edge & marker will always face down, see fig 43.
- 7. Replace the dust chute













TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Grain is fussy	Planing wood with high moisture content Blades are dull	 Dry the wood Sharpen the blades
Grain is torn	 The cut is too heavy Blades are cutting against the grain Blades are dull 	Review proper depth of cut Feed the workpiece with the grain, or turn workpiece around Sharpen the blades
Grain is rough/raised	 Blades are dull Cut is too heavy Moisture content is too high Cutter head bearings are damaged 	 Sharpen the blades Review proper depth of cut Dry the wood Replace the bearings
Uneven depth of cut from side to side	 Blade projection is not uniform Cutter head is not levelled to planer bed 	 Adjust the blade projection Level the cutter head to table
Board thickness does not match depth of cut scale	1. Depth of cut scale is incorrect	1. Adjust the depth of cut scale
Chain is jumping	 Sprockets are misaligned Sprockets are worn 	Align the sprockets Replace the sprockets
Machine will not start/restart	 Tool is not plugged in Motor failure Wire is loose Overload reset has failed Motor starter failure 	 Check the power source Check the motor Check the motor by a qualified electrician Allow machine to cool down and restart Check the motor by a qualified electrician
Circuit tripping resulting in motor stoppage	 Extension cord is too long or too thin Blades are too dull Low voltage running 	 Use a shorter or thicker extension cord Sharpen or replace the blades Check the voltage
Poor feeding of timber	 Planer table is dirty Feed roller is damaged Sprocket is damaged Gear box malfunctions 	 Clean off the pitch and residue, and lubricate the planer table Replace the feed roller Replace the sprocket Check the gear box
Workpiece is jammed	Inadequate blade setting height	Set the blade to the correct height



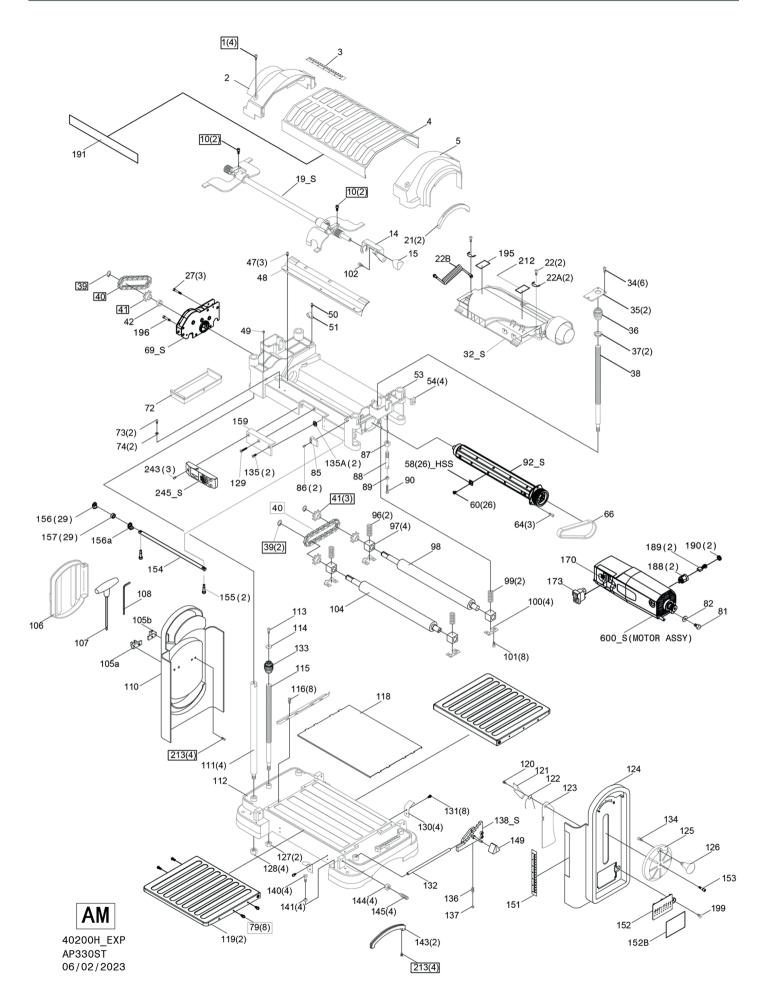
DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE CONTINUING!

- Clean tables ensuring that they are pitch / resin free & level.
- Check that the cutters & feed rollers are clean & free of debris
- Check cutters.
- Check power lead.
- Check drive belt, see fig 44.
- Check carbon brushes, see fig 45.
- Check & regrease elevating screws, see fig 46.









EXPLODED DIAGRAM/PARTS LISTS

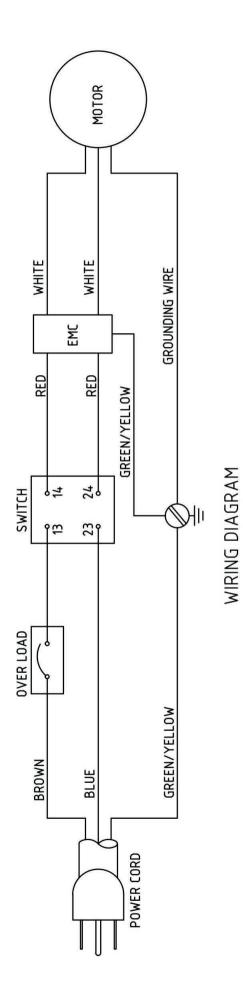
NO	DESCRIPTION	QTY
1	SCR SEMS L/WASH	4
2	CAP LEFT	1
3	SCALE LENGTH	1
4	COVER UPPER	1
5	CAP RIGHT	1
6	SHAFT TRANSMISSION	1
7	WASHER	1
8	NUT LOCK	1
9	SUPPORT	2
10	SCR SEMS L/WASH	4
11	WASHER	1
12	SCR SOC SET CUP PT	2
13	WORM ELEVATION	1
14	HANDLE	1
15	KNOB SNIPE	1
16	SCR HEX SOC HD LOCK	1
17	RING RETAINING	1
18	PLATE LOCK LEFT	1
19	SLEEVE	1
20	PLATE LOCK RIGHT	1
21	PAD UPPER	2
22	M5XP0.8X12L	2
22A	SBG4910-216d	2
22B	ANTI-STATIC DISCHARGE CABLE	1
27	SCR SEMS L/WASH	3
28	SCR SEMS L/WASH	2
29	COVER GEARBOX OUTSIDE	1
30	BEARING BALL	1
31	SHAFT GEAR	1
32	DUST CHUTE	1
34	SCR HEX SOC HD LOCK	6
35	COVER	2
	WORM GEAR R.H.	1
36		
37	BUSHING	2
38	SCREW ELEVATING R.H.	1
39	RING RETAINING EXT	3
40	CHAIN	2
41	SPROCKET	4
42	SPACER	1
43	GEAR ASM SMALL	1
43a	GEAR DRIVE	2
44	GEAR ASM INTER	1
45	SPACER UNDERCUT	4
46	SPACER	2
47	SCR PAN CR	3
48	PLATE DUST CHUTE	1
49	SCR HX SOC SET CUP	1
50	SCR PAN CR	1

51	CLAMP CORD	1
53	FRAME UPPER	1
54	BLOCK SUPPORT	4
58	INSERT	26
60	TORX SCREW	26
61	KEY	1
63	RETAINER BEARING	1
64	SCR HEX SOC CAP	3
65	PULLEY CUTTER HEAD	1
66	BELT DRIVE	1
67	GEAR LARGE	1
68	BUSHING GEAR	5
69	COVER GEARBOX INSIDE	1
70	GEAR PINION	1
71	BEARING BALL	2
72	COVER GEAR BOX	1
73	SCR PAN CR TYTT	2
74	LOCKWASHER EXT	2
75	NUT	1
78	BUSHING	1
79	SCR SEMS W/WASH	9
80	COVER POINTER	1
81	SCREW HEX HD	1
82	WASHER	1
84	ROD POINTER ELEVATING	1
85	INDICATOR DEPTH	1
86	SCREW PAN CR	2
87	NUT HEX SPECIAL	1
88	ROD STEP	1
89	NUT HEX	1
90	SCRW HEX HD	1
92	CUTTERHEAD	1
93	WORM GEAR L.H.	1
94	PULLEY MOTOR	1
95	NUT HEX	1
96	SPRING COIL LEFT	2
97	BLOCK BEARING	4
98	ROLLER OUTFEED	1
99	SPRING COIL RIGHT	2
100	PLATE RETAINER RIGHT	4
101	SCR HEX SOC CAP	8
102	SCR HEX SOC CAP	1
104	ROLLER INFEED	1
105a	HOLDER TOOL A	1
105b	HOLDER TOOL B	1
106	COVER TOOL BOX	1
107	TORX WRENCH	1
108	WRENCH HEX'L	1
110	COVER SIDE LEFT	1
	<u> </u>	

EXPLODED DIAGRAM/PARTS LISTS

111	ROD SUPPORT	4
112	BASE	1
113	SCR HEX SOC CAP	1
114	WASHER	1
115	SCREW ELEVATING L.H.	1
116	SCR SEMS L/WASH	8
117	RAIL GUIDE	2
118	PLATE WEAR	1
119	INFEED OUTFEED TABLE	2
120	SCR PAN CR TYTT	1
121	PLATE STIFFENER	1
122	SPRING TORSION	1
123	PLATE SIDE GUARD	1
124	COVER SIDE RIGHT	1
125	HUB HANDWHEEL	1
126	KNOB HANDWHEEL	1
127	NUT LOCK	2
128	NUT HEX	4
129	SCREW	1
130	SPRING FLAT	4
131	SCR SEMS L/WASH	8
132	ROD PIVOT	1
133	WORM GEAR L.H.	1
134	SCR HEX SOC CAP	1
135	SCREW	2
135A	TH-bx330p 135a	6
136	SPRING COIL	1
137	BALL STEEL	1
138	BLOCK GUARD	1
139	SCR HEX SOC CAP	2
140	SCREW HEX	4
141	NUT HEX	4
143	PAD BASE	2

144	NUT HEX SPECIAL	4
145	BOLT ADJUSTING	4
146	BLOCK STEP	1
147	NUT HEX	1
148	PIN STEP BLOCK	1
149	KNOB STEP	1
151	SCALE THICKNESS	1
152	COVER SIDE R.H.	1
153	SCR SEMS L/WASH	1
154	LONG BAR	1
155	SCR HEX SOC CAP	2
156	SPACER	29
156a	SPACER	1
157	ANTI-KICK JAW	29
159	PAD	1
196	SCR SEMS L/WASH	1
199	SCR HEX SOC FLT HD	1
213	SCR PAN CR TYTT	8
214	WASHER	3
215	COVER GEARBOX	1
216	WASHER WAVE	1
217	PLUG	1
222	WASHER WAVE	1
243	SCREW	3
245	HOUSING POINTER	1
246	SPRING COIL	1
248	POINTER	1
600	MOTOR	1
188	HOLDER BRUSH	2
189	BRUSH	4
190	CAP BRUSH	2
172	WAVE FILTER	1
173	SWITCH LOCKING	1



CA CE

Object of the Declaration: Axminster Professional AP330ST Portable Thicknesser (109100)

UK:

Supply of Machinery (Safety) Regulations 2008 as amended **Electromagnetic Compatibility Regulations** EU:

Machinery Directive 2006/42/EC EMC Directive 2014/35/EU

UK Address:

Axminster Tool Centre Ltd Weycroft Avenue Axminster. Devon EX13 5PH

Standards used or references to the other technical specifications in relation to v conformity is declared:

EN 61029-2-3:2011, ISO 12100:2010, EN 60204-1:2018 IEC 55014-1:2021, IEC 55014-2:2021, IEC 61000-3-2:2019+A1, 61000-3-3:2013+A1+A2

7/29/2025 Date: Place: Axminster

2016 as amended

I.V. SMCA Product Director

Ian Styles

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The packaging is suitable for recycling. Please dispose of it in a responsible manner.



EU Countries Only

Do not dispose of electric tools together with household waste material. By law they must be collected and recycled separately.



Axminster Tools, Axminster Devon EX13 5PH **axminstertools.com**