

AXMINSTER

PROfessional

AP410T Thicknesser



Fully read manual and safety instructions before use. Save this manual for future reference.



Eye protection should be worn



Ear protection should be worn



Dust mask should be worn



Hazard

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

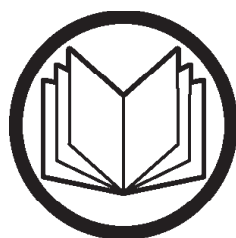
Original Instructions

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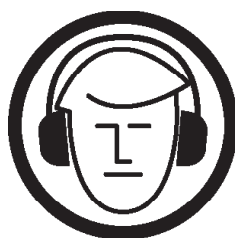
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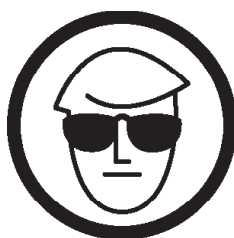
Object of the Declaration: Axminster Professional AP410T Thicknesser 230v 1ph 113348		
UK: Supply of Machinery (Safety) Regulations 2008 as amended Electromagnetic Compatibility Regulations 2016 as amended Directive 2011/65/EU (RoHS 2) Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	EU: Machinery Directive 2006/42/EC EMC Directive 2014/35/EU Directive 2011/65/EU (RoHS 2) Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	UK Address: Newhow Limited. Trading as Axminster Tools Weycroft Avenue Axminster. Devon EX13 5PH
Standards used or references to the other technical specifications in relation to which conformity is declared: ISO 19085-7:2024, EN 60204-1:2018+A1:2025 IEC 55014-1:2021, IEC 55014-2:2021, IEC 61000-3-2:2019+A1:2021, 61000-3-3:2013+A1:2019+A2:2021		European Address: Newhow Limited. Trading as Axminster Tools A-201. Haagsche Hof Parkstraat 83 The Hague 2514 JG Netherlands
Date: 2/25/2026 Place: Axminster	 Charlie Cross Operations Director	



Fully read manual and safety instructions before use



Ear protection should be worn



Eye protection should be worn



Dust mask should be worn



HAZARD

Quantity	Item	Model Number
		AP410T
1 No	310mm Spiral Cut Thicknesser	
1 No	7mm, 5.5mm Spanner	
1 No	Instruction Manual	



Introduction

For the production of boards or frames to a uniform size, a thicknesser is unbeatable. This compact machine has strength in abundance with a cast iron frame and table, supported by a welded steel chassis. This machine is powered by a 2.2kW induction motor, driving the cutter block by a multi vee-type belt, with the feed rollers with a tensioned chain drive.

The table is supported by a generous single column, has a digital height gauge and can be locked into position. The table also has support rollers at each end. The cutter block is the increasingly popular helical type, this one having 6 rows of 14 indexing TCT cutters, giving an almost unbelievable finish. Each cutter has 4 curved edges, so can simply be revolved to a fresh

edge when required. If one or more cutters is damaged, then simply replace. Each edge lasts up to 10 times the expected life of an HSS blade, so downtime for changing knives is much reduced. Also, no setting is required, saving more time and guaranteeing accuracy. The curved edge gives a shear style of cut, much kinder on the timber than traditional square cutters.

There are two other main benefits of this type of cutter block: much lower noise, and much reduced power required to drive it, reducing the load on the motor and drive belt. The waste chips are much more uniform, being easier to extract and packing more into your extractor's waste container. This is a compact machine, but capable of handling quite large board runs or sizing frames or beams.

GENERAL INSTRUCTIONS FOR 230V MACHINES

The following will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN



KEEP WORK AREA AS UNCLUTTERED AS IS PRACTICAL. UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.

Mains Powered Tools

- Tools are supplied with an attached 13 Amp plug.
- Inspect the cable and plug to ensure that neither are damaged. Repair if necessary by a suitably qualified person.
- Do not use when or where it is liable to get wet.

Workplace

- Do not use 230V a.c. powered tools anywhere within a site area that is flooded.
- Keep machine clean.
- Leave machine unplugged until work is about to commence.
- Always disconnect by pulling on the plug body and not the cable.

- Carry out a final check e.g. check the cutting tool is securely tightened in the machine and the correct speed and function set.
- Ensure you are comfortable before you start work, balanced, not reaching etc.
- Wear appropriate safety clothing, goggles, gloves, masks etc. Wear ear defenders at all times.
- If you have long hair wear a hair net or helmet to prevent it being caught up in the rotating parts of the machine.
- Consideration should be given to the removal of rings and wristwatches.
- Consideration should also be given to non-slip footwear etc.
- If another person is to use the machine, ensure they are suitably qualified to use it.
- Do not use the machine if you are tired or distracted
- Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases.
- Check cutters are correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the machine.
- OBSERVE.... make sure you know what is happening around you and **USE YOUR COMMON SENSE.**

SPECIFIC PRECAUTIONS USING THICKNESSERS

Most machines currently, are well interlocked to ensure that the machine must be in the correct configuration to perform one task or the other. Make yourself familiar with these configurations and do not try to use the machine in a half and half state; or rig the interlocks to enable you to do so.

- Lower the thicknessing hood and lock in place.
- Connect the dust extraction. Ensure the hose will not foul any materials being passed through the machine.
- Check the height of the thicknessing table.

- Engage the autofeed mechanism.
- Check blade inserts for damage, chips etc. Rotate or replace if required.
- Periodically, clean any excess build up of resin from the thicknessing table, and apply any proprietary brand of lubricating agent.

NOTE, Consideration should be given to the type of finish you will be applying to the surface when you select your cleaning/lubrication agent.

SPECIFICATION

Code	113348
Model	AP410T
Rating	Professional
Power	3.0kW
Feed Speed	5.4m/min
Cutterblock Speed	4,500rpm
Cutterblock Diameter	75 mm
Noise Level	85dB
Max Thicknesser Capacity	408 x 230 mm
Max Depth of Cut	4.5 mm
Knives	TC Spur Cutters x 72
Length of Table	600 mm
Min Extraction Airflow Required	1,500m ³ /hr
Dust Extraction Outlet	125 mm
Overall L x W x H	870 mm x 730 mm x 1,120 mm
Weight	159 kg



The planer Thicknesser comes 98% assembled. It is enclosed in a packing case with all the accessories. Having removed the top and the sides of the packing case, remove all the components from the machine, place safely aside.

1. Ascertain the orientation of the machine and move it to its desired position in the workshop. Make sure its positioned on a flat level surface and ensure that the machine is positioned to allow sufficient clearance both in front and behind the machine to cater for the maximum length of timber you will wish to machine.

2. The machine is secured down on to the pallet that forms the bottom of the packing case. Remove the four nuts/bolts, that secures the machine to the pallet. Place lifting straps around the machine, DO NOT under normal circumstances lift, push or pull the machine using the tables. Any movement is best carried out against the main frame cabinet. Hoist the machine clear of the pallet, slide the pallet out of the way and lower the machine in position.

NOTE: Secure the thicknesser if required to the floor using the four 10mm holes that secured the machine to the pallet. Attach adjustable machine feet if required, visit our website for details.

3. If you do not have the availability of such a hoist, and are going to have to 'manhandle' the machine off the pallet; make sure the thicknessing table is locked in position by turning the rise & fall locking handle in the down position before applying any lifting force, see fig 01.

Fig 01



Dust Extraction Support Bracket

1. Mounted to the rear of the thicknesser's duct hood is the hose support hook bracket that needs to be rotated round to support the extraction hose, see fig 02.

2. Remove the four Phillips screws, washer and spring washers. Rotate the hook support bracket round and replace and secure in place with the fixings you just removed, see fig 03-04.

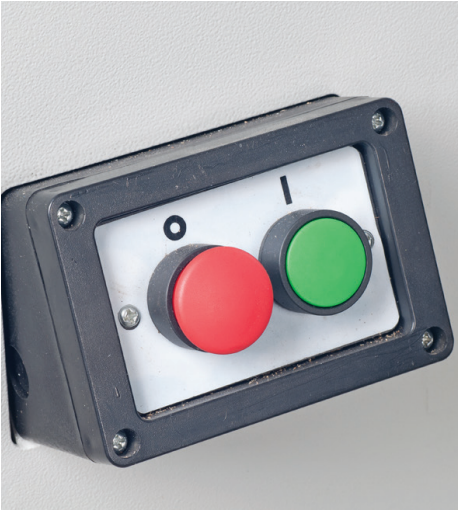
Fig 02-03-04



3. Introduce one end of the 125mm hose into the dust hood extraction outlet and insert the hose into support bracket hook, see fig 05. NOTE: Make sure the hose does not obstruct the thicknesser's table, adjust the hose until its above the table's outlet, see fig 06.

Fig 05-06

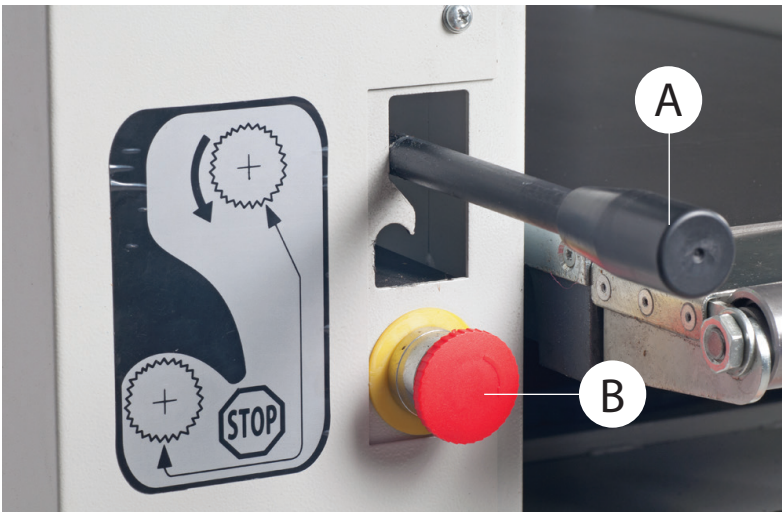




ON/OFF Control



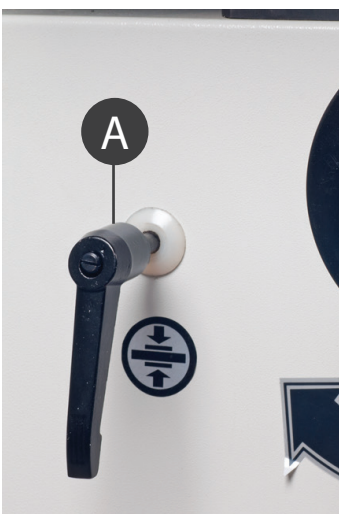
The Digital Thickness Display, will give an accurate visual indication of the amount you are adjusting the thickening table in 0.10mm increments.



Autofeed lever (A) to engage the thickening function
Emergency stop (B), rotate the button to unlock the switch



Lift & Shift locking handle to secure the thickening cover



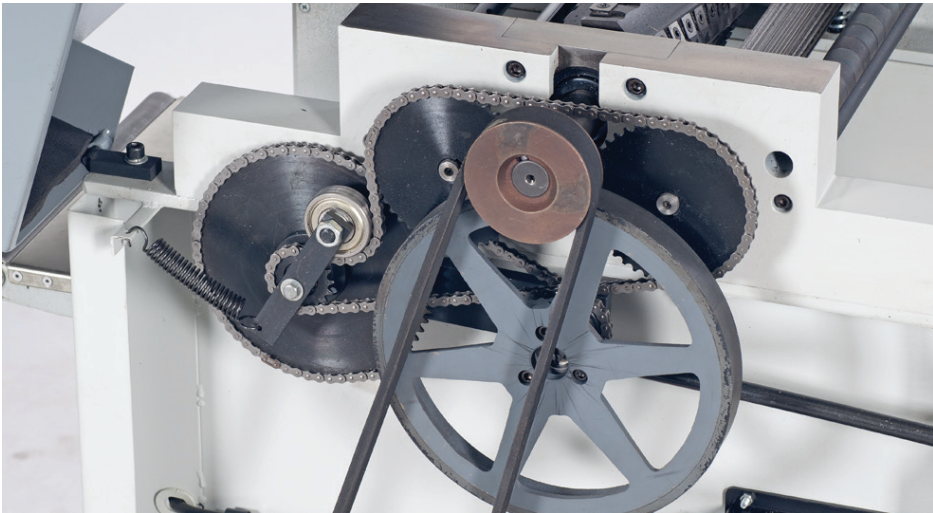
Rise and fall clamping handle (A), in the locked position
clamping handle (B), in the un-locked position



Thickening table rise and fall control wheel

ILLUSTRATION AND PARTS DESCRIPTION





Cutter block drive assembly



Thickener cover safety micro switch

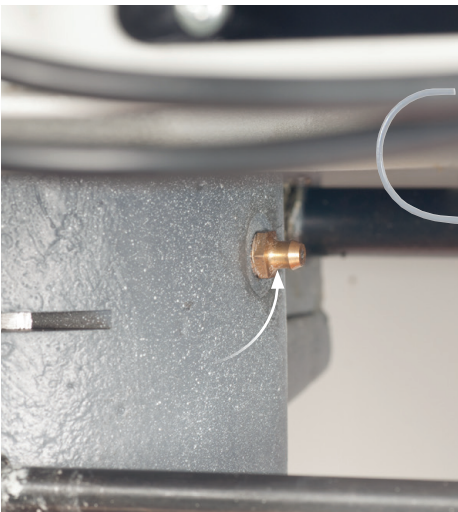


Table column grease nipple



Drive belt threaded tension stop

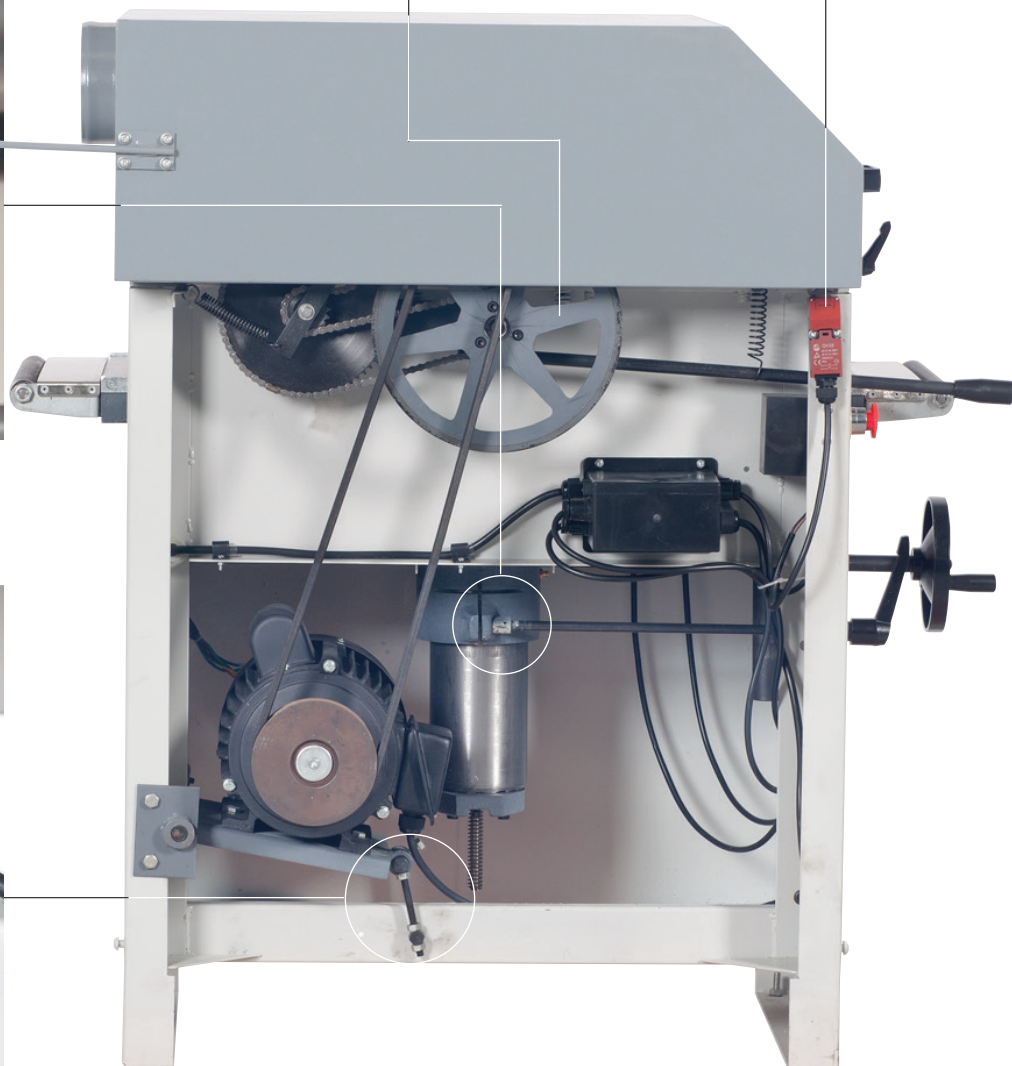
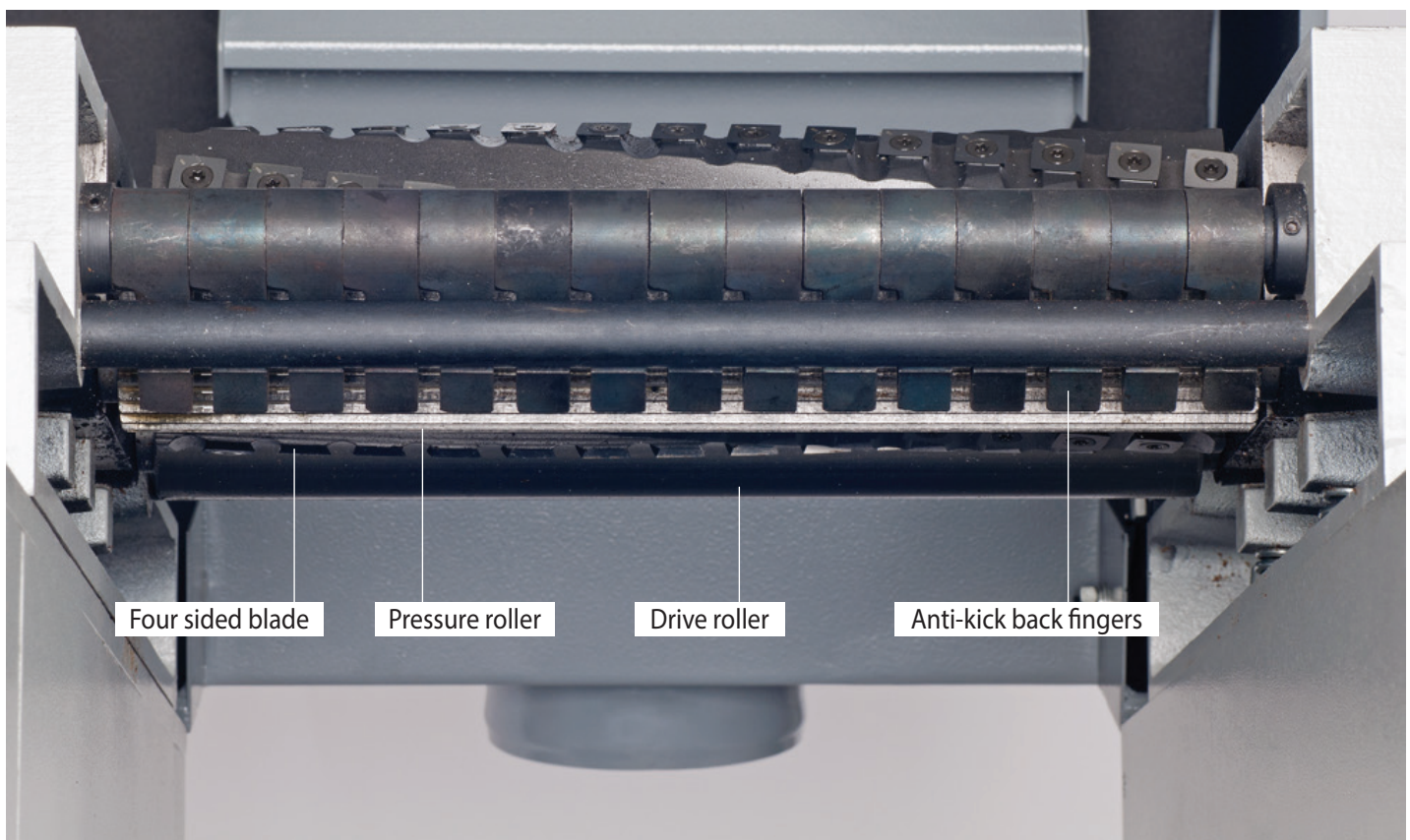
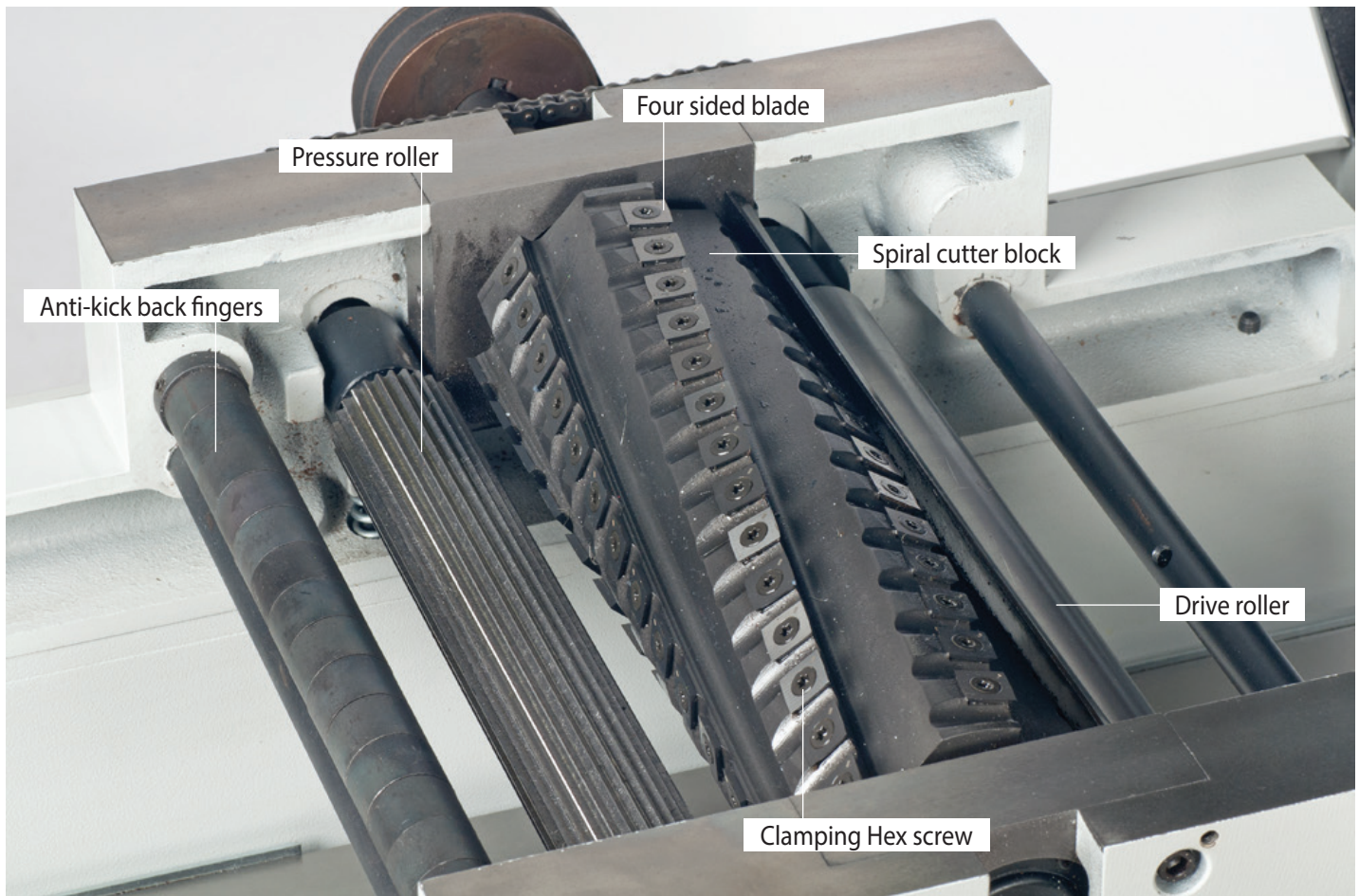


ILLUSTRATION AND PARTS DESCRIPTION



Allow sufficient clearance all round the machine



Ascertain the orientation of the machine and move it to its desired position in the workshop. Ensure that the machine is positioned to allow sufficient clearance all round to cater for the maximum length of timber you wish to machine. The thicknesser should be positioned on a flat level surface.

SETTING THE DIGITAL THICKNESS DISPLAY

The Axminster Digital Display will give an accurate visual indication of the amount you are adjusting the thickening table in 0.10mm increments. Perfect for multiple board production.

To set the 'Digital Display', follow the instruction below:

1. Roughly by eye set the distance between the thickening table and the blade at its lowest point.



CONNECT THE THICKNESSER TO THE MAINS SUPPLY AND SWITCH ON!

2. Carefully insert a piece of timber through by eye.
3. Raise the table in 1mm increments and take further cuts until you have a clean cut.
4. Without raising the table, turn the timber over and repeat the process.



SWITCH OFF THE THICKNESSER AND WAIT UNTIL IT COMES TO A COMPLETE STOP!

5. Remove the timber from the table and accurately measure the machined sides using a vernier and write down the reading, see fig 07.

Fig 07



6. Loosen the collar on the digital thickness display, see fig 08. Turn the collar to dial in the measurement you wrote down, see fig 09. Re-tighten the collar to the drive shaft.

Fig 08-09



OPERATING INSTRUCTIONS

Setting the Machine for Thicknessing

1. Visit the HSE (Health and Safety Executive) website for the correct safe operating procedures.



HSE Health and Safety Executive

To operate the machine correctly, it is recommended to read the HSE (Health and Safety Executive) website at www.hse.gov.uk on the safe operation procedures.

2. Connect a 125mm extraction hose to the extraction hood outlet.
3. Lower the thicknessing hood and secure in place with the lift and shift handle, see fig 10-11.

Fig 10-11



4. Release the rise and fall clamping handle (A) and turn the operating wheel (B) clockwise to raise the thicknessing table to the required thickness using the 'Digital Display'. Turn the clamping handle in the locked position to secure the table, see fig 13-14-15.

Fig 13-14-15



CONNECT THE MACHINE TO THE MAINS SUPPLY!

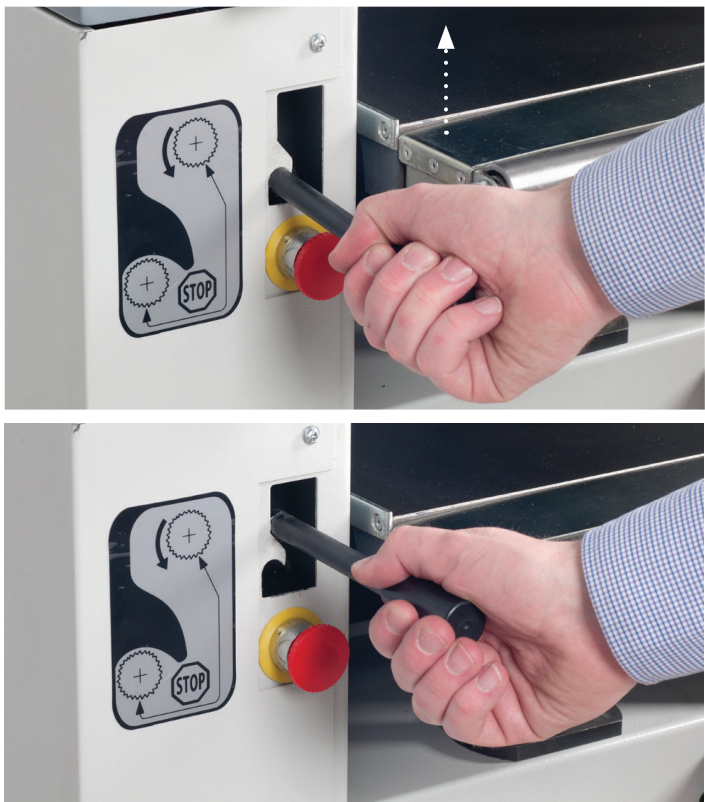
5. Make sure the mushroom shaped emergency stop button is unlocked. Twist the button to unlock, see fig 19.
6. Clear all the tools away from the thicknesser and press the 'GREEN' button on the control assembly to start the machine. Allow the thicknesser to reach full speed, see fig 16.

Fig 16



7. Raise the autofeed lever to engage the thicknessing function and guide the timber through, see fig 17.
8. When you are finished, switch off the machine by pressing the 'RED' button on the control assembly and wait until the machine comes to a complete stop. Disengage the autofeed function to reduce wear on the autofeed drive wheel.

Fig 17



 DISCONNECT THE MACHINE TO THE MAINS SUPPLY BEFORE MAKING ANY ADJUSTMENTS!

Emergency Stop

The emergency stop is a mushroom shaped button, mounted to the side of the thicknesser, below the thicknessing fuction lever. In an emergency, press the button in to bring the machine to a halt. Twist the button to unlock before restarting the thicknesser, see fig 18-19.

Fig 18-19



Changing the Spiral Cutter Block Blades

 DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE CONTINUING!

The spiral cutter block has four rows of square cutters running around its circumference. There are 84 square cutters in total on the 12inch cutter block. There is a blade machined to each side of the square cutter allowing the cutter to be rotated to a clean sharp edge if one side has been damaged or has become blunt, see fig 20.

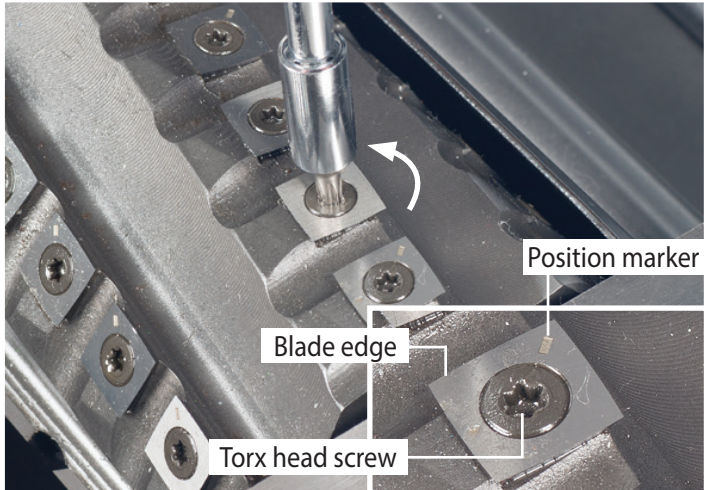
The square cutter has an embossed position marker to one of its four corners, once this mark has gone round one full rotation it is time to replace the square cutter, see fig 21.

To rotate the cutter, loosen the Torx head screw and rotate until the new edge is in alignment with the other cutters. Re-tighten the Torx head screw to lock the cutter in place, see fig 21.

 WARNING! BE VERY CAREFUL WHEN TURNING THE CUTTERS AS THE BLADES ARE EXTREMELY SHARP.

 DO NOT OVERTIGHTEN TO AVOID THE TORX HEAD SCREW HEAD FROM GETTING DAMAGED!

Fig 20-21



MAINTENANCE



DISCONNECT THE MACHINE FROM THE MAINS SUPPLY BEFORE CONTINUING!

Daily

Check that thickening table is clean, not coated with resin etc. Apply a proprietary cleaner/lubricating agent such as 'Wax & Polish Remover' (1) and 'Lubricating Wax' (2).

Check the cable and the plug for damage or defects.

Check the dust extraction hood and ensure there are no excessive build ups of sawdust/resin, especially in the mouth of the chip deflector and around the mouth of the extractor, see fig 22.

Check the blades for sharpness and damage.

Check the rollers of the thickening table rotate freely, and there is no build up between the roller and the extension table.



Weekly

Carry out the 'Daily' checks.

Clean the machine thoroughly, remove any shavings, sawdust, chips etc, from in, under and around the machine.

Check the Spiral cutter block for resin build up, especially behind the blade.

Raise the thickening table and brush out and clean any debris or build up around edges of the table.

Check the infeed and take off pressure rollers are not clogged, clean as necessary.

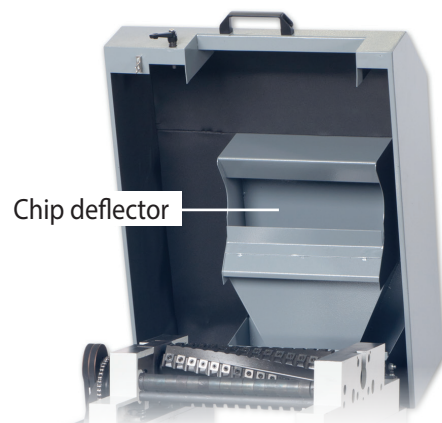
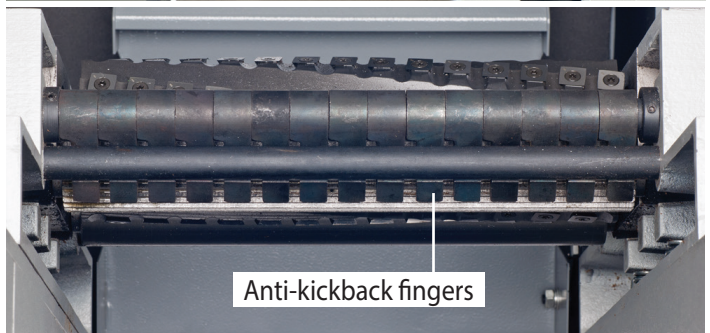
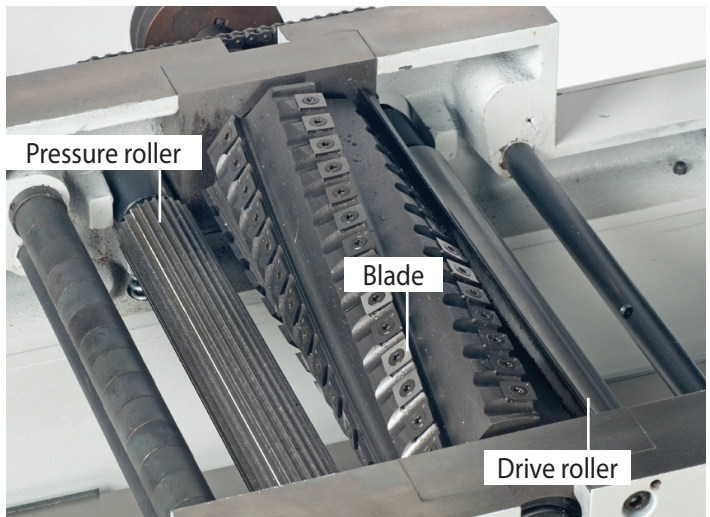
Check the action of the anti-kickback fingers, again clean and lubricate as required.

Fig 22



Visually check for signs of excessive build up inside the extraction hood and the end of the hose

Fig 23-24-25-26





Clean out any build up of debris around the edges of the thickening table

Monthly

Carry out the 'Weekly' checks.

Remove the machine's motor/drive access panel by removing the Phillips screws on either side of the panel. Lift away the panel and place to the side, see fig 27-28-29-30. Un-lock the thickener hood handle and lift up the assembly, see fig 31-32.

Fig 27-28-29-30

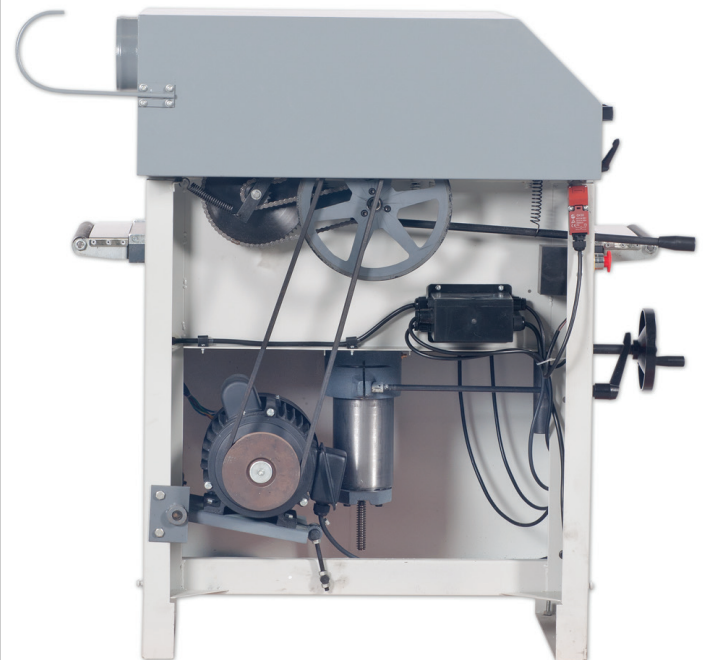


Fig 31-32



Check the condition and tension of the drive belt, see fig 33.

Check the autofeed engage and disengage function, see fig 34-35.

Check the condition of the drive chains, clean and apply a light coating of oil to the chains and sprockets.

Using 'Dry PTFE Film Antistick' spray, (3) lubricate all the bearing areas, taking care not to get oil on the drive belt and tyre surfaces. Replace the motor/drive access panel.

Fig 33

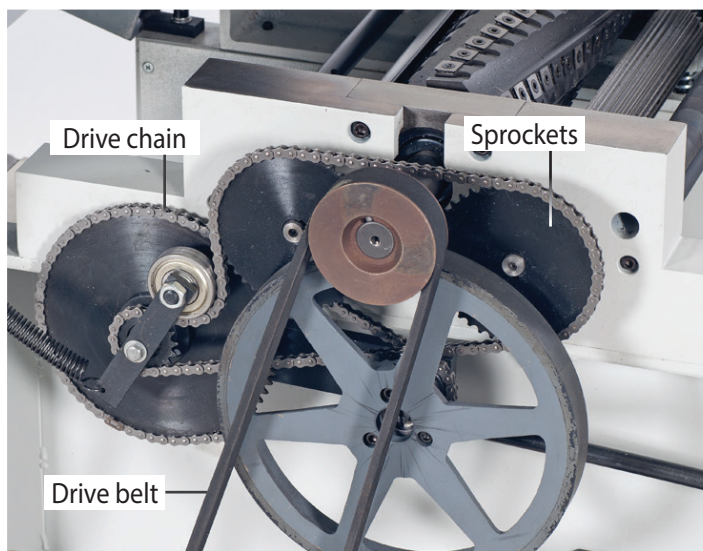
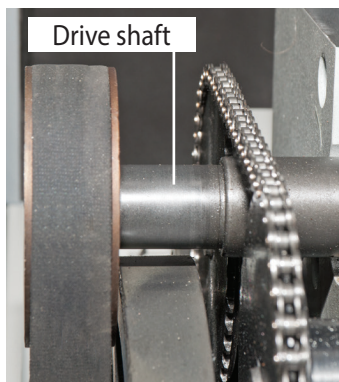
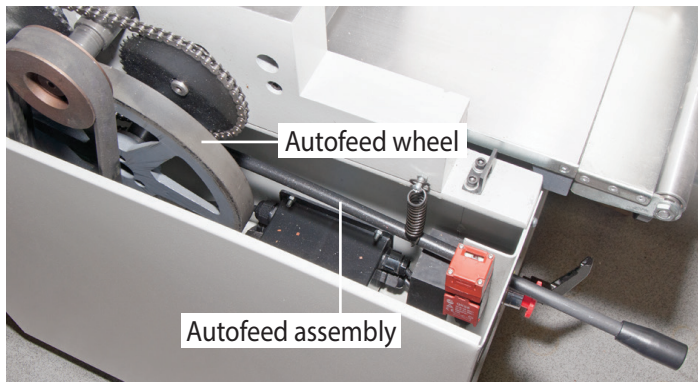


Fig 34-35



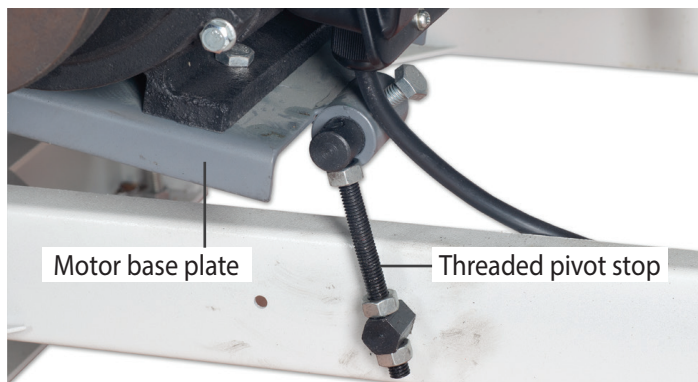
Autofeed wheel disengaged

Autofeed wheel engaged

Drive Belt Tension

Remove the motor/drive access panel, if not done so already. Check the tension of the belt by pushing the belt, there should be a deflection of between (12-20mm). If there is considerable movement in the belt, adjust the motor's threaded pivot stop.

Fig 36-37



To adjust the threaded stop first loosen the motor's pivot bolt (A) on the motor's base plate then adjust the threaded stop nuts (B and C) until the drive belt is under tension. Nip up the pivot bolt (A), see fig 36-37.

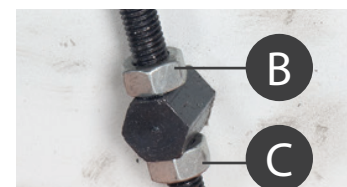
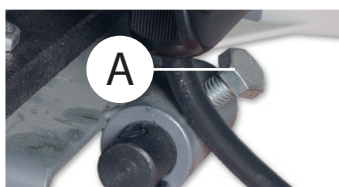


Table Lifting Column

1. To the side of the lifting column housing there is a grease nipple to lubricate the inner column. If you notice after a period of time that the table is becoming harder to raise and lower or a grinding noise when adjusting the table, it could be a sign that the inner column needs lubricating.
2. Using a grease gun inject small amounts of grease into the inner column, raise and lower the table to work the grease around the column. It is recommended to do this once or twice a year, see fig 38-39.



NOTE: DO NOT INTRODUCE TOO MUCH GREASE INTO THE COLUMN AT ONE TIME!

Fig38-39

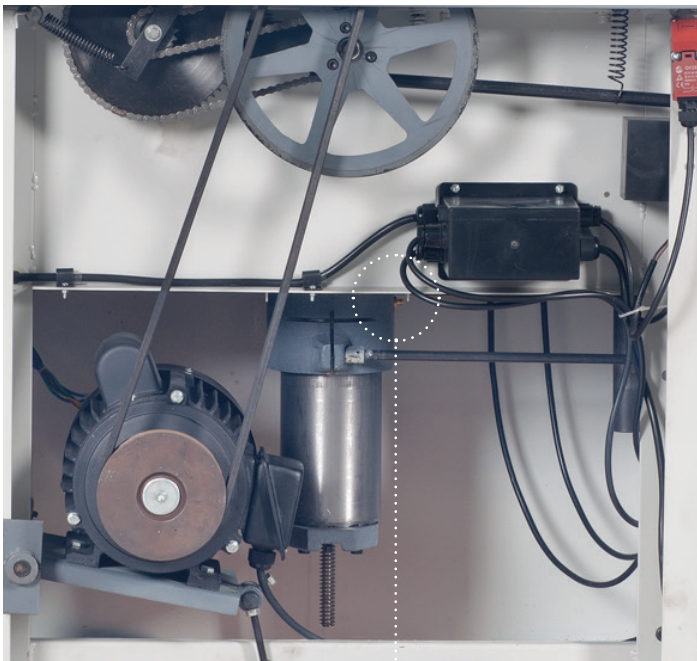


Table column grease nipple

Thickening Table

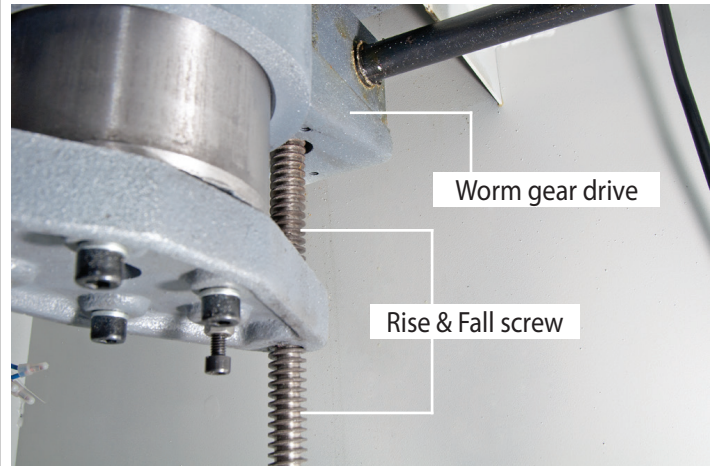
If the thickener is not going to be in use for long periods, apply a light coat of 'Lubricating Wax' (2) over the thickening table.



Table Rise & Fall Screw Mechanism

It is recommended to grease the table rise and fall screw mechanism once or twice a year. Smear a light coat of grease around the length of the screw that is exposed. Raise and lower the table to work the grease around the full length of the screw and the worm gear drive mechanism, see fig 40.

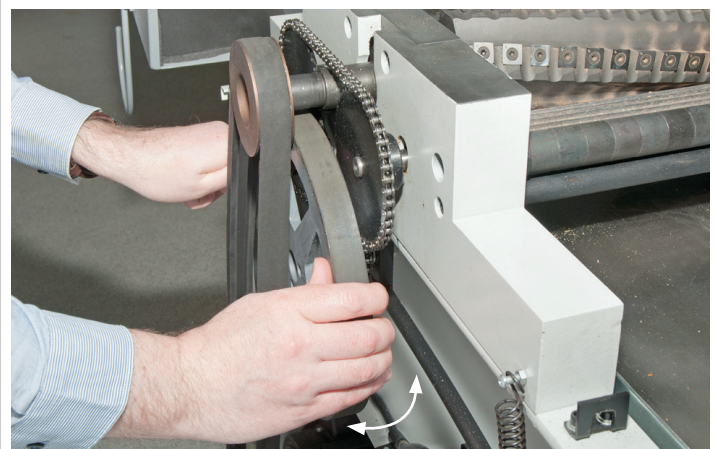
Fig 40



Autofeed Drive Wheel

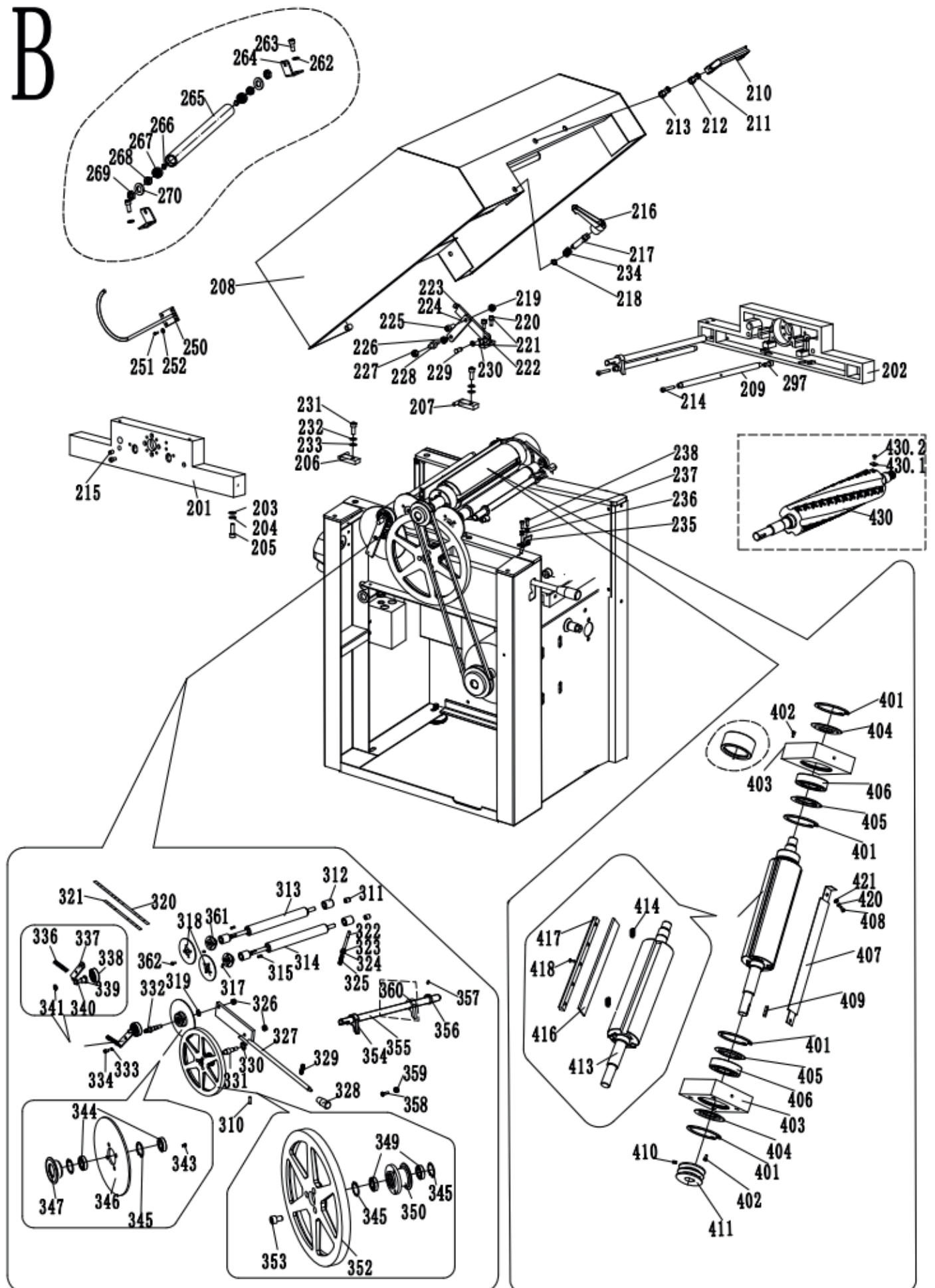
1. If the autofeed function lever is not disengaged after every use, over time depressions will form to the centre of the drive wheel. Check for any signs of wear on the autofeed wheel.
2. Check yearly for signs of side play in the autofeed drive wheel, see fig 41. If there is side play movement or depressions in the drive wheel, contact our after sales department on 0800 371822 for assistance.

Fig 41



[illegible]

B



EXPLODED DIAGRAM/PARTS LIST

NO.	DESCRIPTION	QTY		NO.	DESCRIPTION	QTY
1	Base stand	1		51	Contacto Box	1
2	Small cover plate	2		52	Strain Relief M16X1.5	3
3	Flat washer 5	9		53	Strain Relief M20X1.5	3
4	Phillips head screw M5X8	4		54	Contacto	1
7	Right cover plate	1		103	Cap screw M8x35	4
8	Phillips head screw M5X8	13		104	Flat washer 8	4
10	Cap screw M10X16	1		105	Cap screw M6x35	1
11	Motor	1		106	Hex nut M6	1
12	Hex bolt M8X25	4		107	Splint	1
13	Hex nut M8	4		108	Straight-through oiling Cup	1
14	Spring washer 8	4		109	Locking block	1
15	Flat washer 8	8		110	Oriented body	1
16	Motor pulley	1		112	Cap screw	4
17	Setscrew M6X10	1		113	Set screw	4
18	Belt	2		114	Seal	1
19	Protective cover	1		115	Cap screw M8X20	6
20	Phillips head screw	2		116	Lifting tube	1
21	Flat washer 5	2		117	Thickneser table	1
25	Motor base	1		118	Apron	4
26	Shaft	1		119	Flat head screw	12
27	Screw	1		120	Pointer	1
28	Hex nut M8	5		121	Phillips head screw	2
29	Adjusting screw	1		122	Phillips head screw	2
30	Axle	1		123	Depth scale	1
31	Fixed plate	1		124	Hex bolt M6X20	3
32	Flat washer 8	2		125	Flat washer 6	3
33	Hex bolt M8X20	2		126	Block	1
34	Pin 3.2x30	2		127	Lock nut M6	3
35	Nut	1		128	Washer	1
36	Hex bolt M8X16	3		129	Mandril	1
37	Key for micro switch	1		130	Lock nut M6	2
38	Phillips head screw M4X10	2		131	Block	1
39	Micro switch	1		132	Big washer	2
40	Hex nut M4	2		133	Hex bolt M6X20	2
41	Phillips head screw M4X35	2		134	Handle wheel	1
42	Washer	1		135	Handle	1
43	Flat head screw M6X16	1		136	Special nut M12	1
44	Green button	1		137	"C" ring	1
45	Red button	1		138	Locating bush	1
46	Emergency Switch	1		139	Double head screw	1
47	Self-Tapping Screw	1		140	Big handle assembly	1
48	Connector	1		141	Hex bolt M6X65	2
49	Screw	4		142	Spring washer 6	2
50	Nut M5	4				

EXPLODED DIAGRAM/PARTS LIST

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
143	Flat washer 6	2	219	Lock nut M8	1
144	"C" ring	1	220	Cap screw M6X16	2
145	Gear axle	1	221	Spring washer 6	3
146	Key 5X12	1	222	Small frame	1
147	Flat washer 10	2	223	Pole I	1
148	Big washer 10	2	224	Pole II	2
149	Helical gear	1	225	Hex bolt M8X25	1
150	Thrust bearing 51102	1	226	Lock nut M6	1
151	Bush	1	227	Hex nut M8	1
152	Guide screw	1	228	Pin	1
153	Elastic pin 4x25	1	229	Pin	1
154	Lock nut M10	2	230	"C"ring 4	1
155	Flat washer 10	1	231	Cap screw M8X25	2
156	Gear box	1	232	Spring washer 8	2
157	Elastic pin 4x18	2	233	Flat washer 8	2
158	Nut	2	234	Spring	1
159	Roller	2	235	Lock plate	1
160	Cover	2	236	Flat washer 6	2
161	Flat washer	4	237	Spring washer 6	2
162	Cap screw M8X16	6	238	Cap screw M6X10	2
163	Flat cap screw M6X10	4	250	Hook	1
164	Spring washer 8	6	251	Screw M6x12	4
165	Flat washer 8	6	252	Washer 6	4
166	Ring 6	2	262	Washe 6	8
167	Bearing 628	4	263	Screw M6x12	8
168	Pin	4	264	Small support board	4
169	Thin hex nut M10	4	265	Roller shaft	2
170	Extended auxiliary support	1	266	Retaining ring 6	8
171	Pad	1	267	Ball bearing 628	8
172	Screw M6x25	2	268	Pin shaft	8
173	Digital Readout	1	269	Nut M10	8
174	Screw	1	270	Flat washer 10	8
201	Left cutter block support	1	297	screw	1
202	Right cutter block support	1	310	Flat head screw M6X16	1
203	Flat washer 8	8	311	Bush	8
204	Spring washer 8	8	312	Bush	4
205	Cap screw M8X30	8	313	Pressing roller	1
206	Left hinge	1	314	Driving roller	1
207	Right hinge	1	315	Key 5X16	2
208	Upper cover	1	317	Setscrew M6X10	2
209	Support axle	2	318	Chain wheel	2
210	Handle	1	319	"C" ring	1
211	Cap screw M8X20	2	320	Long Chain	1
212	Flat washer 8	2	321	Short Chain	1
213	Hex nut M8	2	322	Double head screw	4
214	Cap screw M6X35	4	323	Flat washer 8	4
215	Setscrew M6X16	3	324	Lock nut M8	4
216	Lock handle	1	325	Spring	4
217	Eccentric pole	1	326	Hex nut M10	2
218	"C"ring	1			

EXPLODED DIAGRAM/PARTS LIST

NO.	DESCRIPTION	QTY		NO.	DESCRIPTION	QTY
327	Control handle assembly	1		409	Key	1
328	Handle	1		410	Setscrew M6X10	1
329	Spring	1		411	Spindle pulley	1
330	Flat washer 10	1		413	Cutter block	1
331	Pin	1		414	Compressin spring	8
332	Chain wheel axle	1		416	Blade	4
333	Big washer	1		417	Blade locking block	4
334	Hex bolt M6X10	1		418	Square head screw M6X10	24
336	Spring	1		420	Spring washer	4
337	Tension plate	1		421	Flat washer	4
338	Bearing 6303-2Z	1		430	Cutter block	1
339	Screw	1		430.1	Blade	52
340	Flat washer 10	1		430.2	Screw	52
341	Hex nut M10	1		801	Plug	1
343	Flat head screw M6X10	4		802	Screw	4
344	Bearing 61901-2Z	2		803	Washer 5	4
345	"C" ring 24	4		804	Flat washer 5	4
346	Chain wheel III	1		805	Nut M5	4
347	Chain wheel II	1		806	Sealing ring	1
349	Bearing 6901	2		807	Switch box	1
350	Chain wheel I	1		808	Screw	2
352	Cast iron friction wheel	1		811	Switch box cover	1
353	Cap screw M6X16	3		812	Switch board	1
354	Kick block	20		813	Screw	4
355	Turning axle	1		814	Label	1
356	Bush	2		815	Screw	2
357	Pin	2		820	Strain relief	3
358	Screw M5x16	1		852	Screw M4x40	4
359	Nut M5	1		853	Upper cover	1
360	Swing hammer	2		854	Lower cover	1
361	Chain wheel body	2		861	Lower shell of switch box	1
362	Screw	8		862	Upper shell of switch box	1
401	"C" ring	4		863	Screw M4x70	2
402	Setscrew M6X16	4		864	Flat washer 4	2
403	Bearing base assembly	2		865	PC board	1
404	Small dustproof cover	2		866	Nylon hexagonal column	3
405	Big dustproof cover	2		867	Nut M3	2
406	Adjusting center bearing	2		868	Strain relief	1
407	Protective plate	1		869	Strain relief	1
408	Cap screw	2				

230V/50Hz,1PHASE

