

AP310T2

310mm Spiral Cut Thicknesser



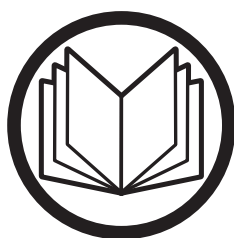
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EU DECLARATION OF CONFORMITY

Cert No: MB103 Axminster Tool Centre Ltd Axminster Devon EX13 5PH UK axminstertools.com declares that the machinery described:- <table border="1"> <tr> <th>Type</th> <th>Thicknesser</th> </tr> <tr> <td>Model</td> <td>AP310T2</td> </tr> </table> Signed  Andrew Parkhouse Operations Director Date: 15/12/2017	Type	Thicknesser	Model	AP310T2	EU Declaration of Conformity This machine complies with the following directives: <table> <tr> <td>2006/42/EC</td> <td>EN 55014-1:2006+A1+A2</td> </tr> <tr> <td>2014/30/EU</td> <td>EN 55014-2:1997+A1+A2</td> </tr> <tr> <td>06/42/EC - Annex I/05.2006</td> <td>EN 55014-1:2017</td> </tr> <tr> <td>EN 60204-1:2006+A1+AC</td> <td>EN 55014-2:2015</td> </tr> <tr> <td>EN 861:2007+A2</td> <td>EN 61000-3-2:2014</td> </tr> <tr> <td>EN 61000-3-3:2013</td> <td></td> </tr> </table> and conforms to the machinery example for which the EC Type-Examination Certificate No AE 50390663 has been issued by Laizhou Planet Machinery Co., Ltd. at: Yutai West Street Laizhou, Shandong 261400 China (Mainland) and complies with the relevant essential health and safety requirements.	2006/42/EC	EN 55014-1:2006+A1+A2	2014/30/EU	EN 55014-2:1997+A1+A2	06/42/EC - Annex I/05.2006	EN 55014-1:2017	EN 60204-1:2006+A1+AC	EN 55014-2:2015	EN 861:2007+A2	EN 61000-3-2:2014	EN 61000-3-3:2013	
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EN 861:2007+A2	EN 61000-3-2:2014																
EN 61000-3-3:2013																	

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

Quantity	Item	Model Number
		AP310T2
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 thickening 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 thickening 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 thickening 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	107702
Model	AP310T2
Rating	Professional
Power	2.2kW 230V 1ph
Feed Speed	8m/min
Cutterblock Speed	4,050rpm
Cutterblock Diameter	95 mm
Noise Level	85dB
Max Thicknesser Capacity	310 x 220 mm
Max Depth of Cut	5 mm
Knives	78 XTCT Spur Cutters
Length of Table	930 mm
Min Extraction Airflow Required	1,000m³/hr
Dust Extraction Outlet	125 mm
Overall L x W x H	1,050 mm x 610 mm x 1,020 mm
Weight	200 kg

ASSEMBLY



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 thickening 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



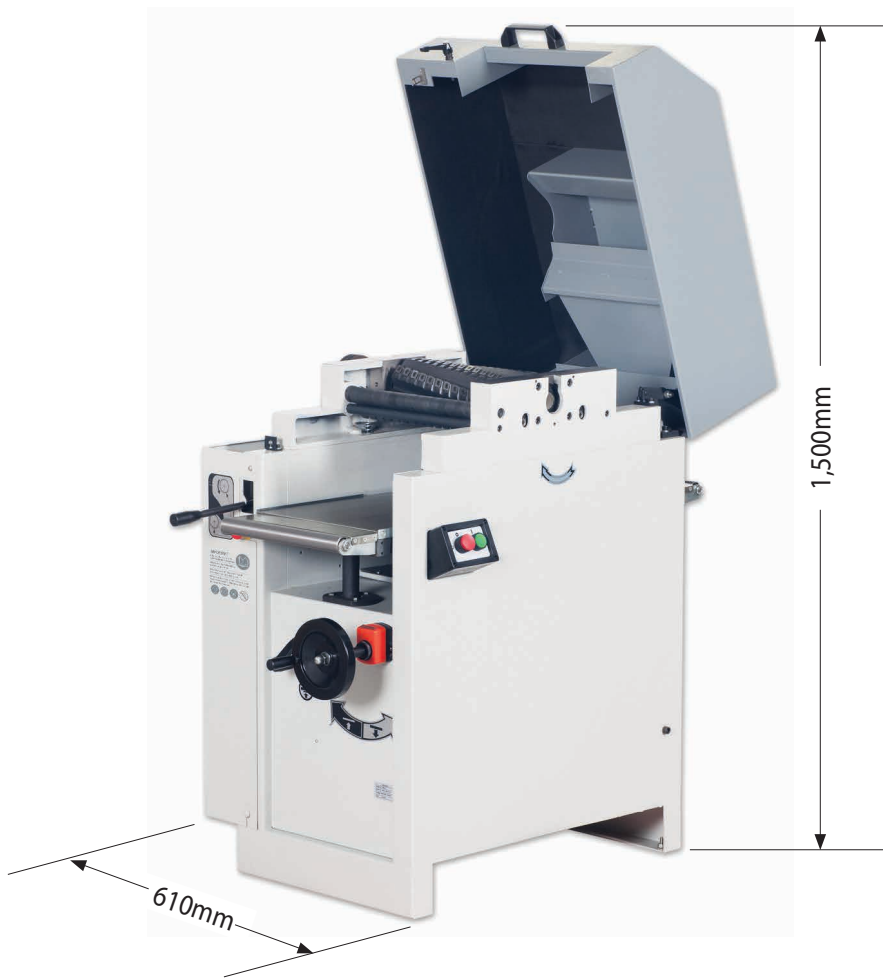
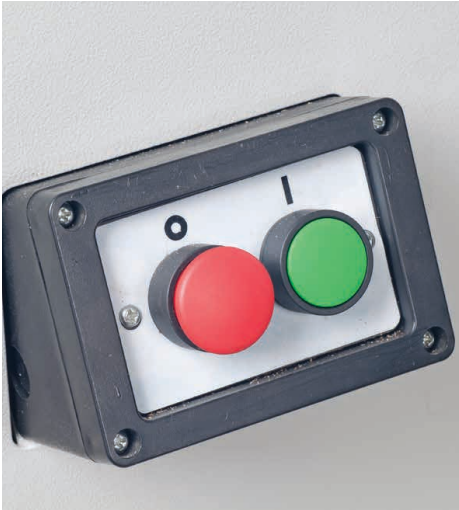


ILLUSTRATION AND PARTS DESCRIPTION

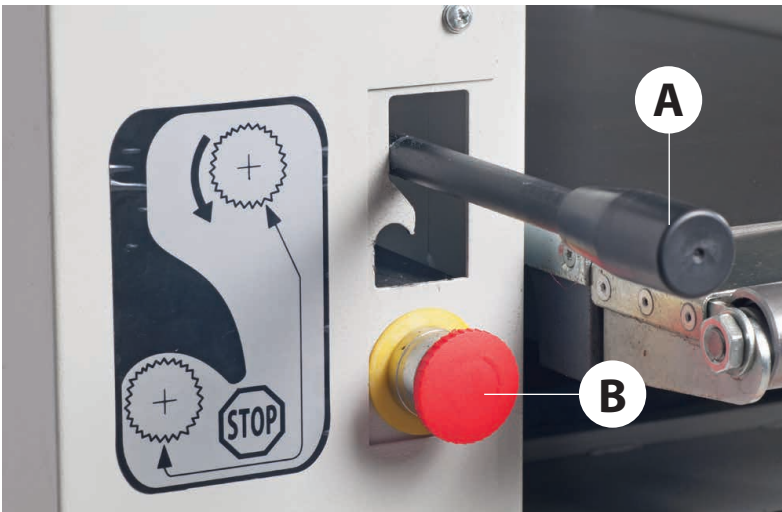




ON/OFF Control



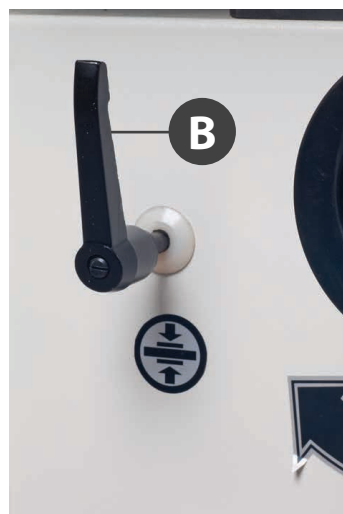
The Digital Thickness Display, will give an accurate visual indication of the amount you are adjusting the thickening table in 0.10mm increments.



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

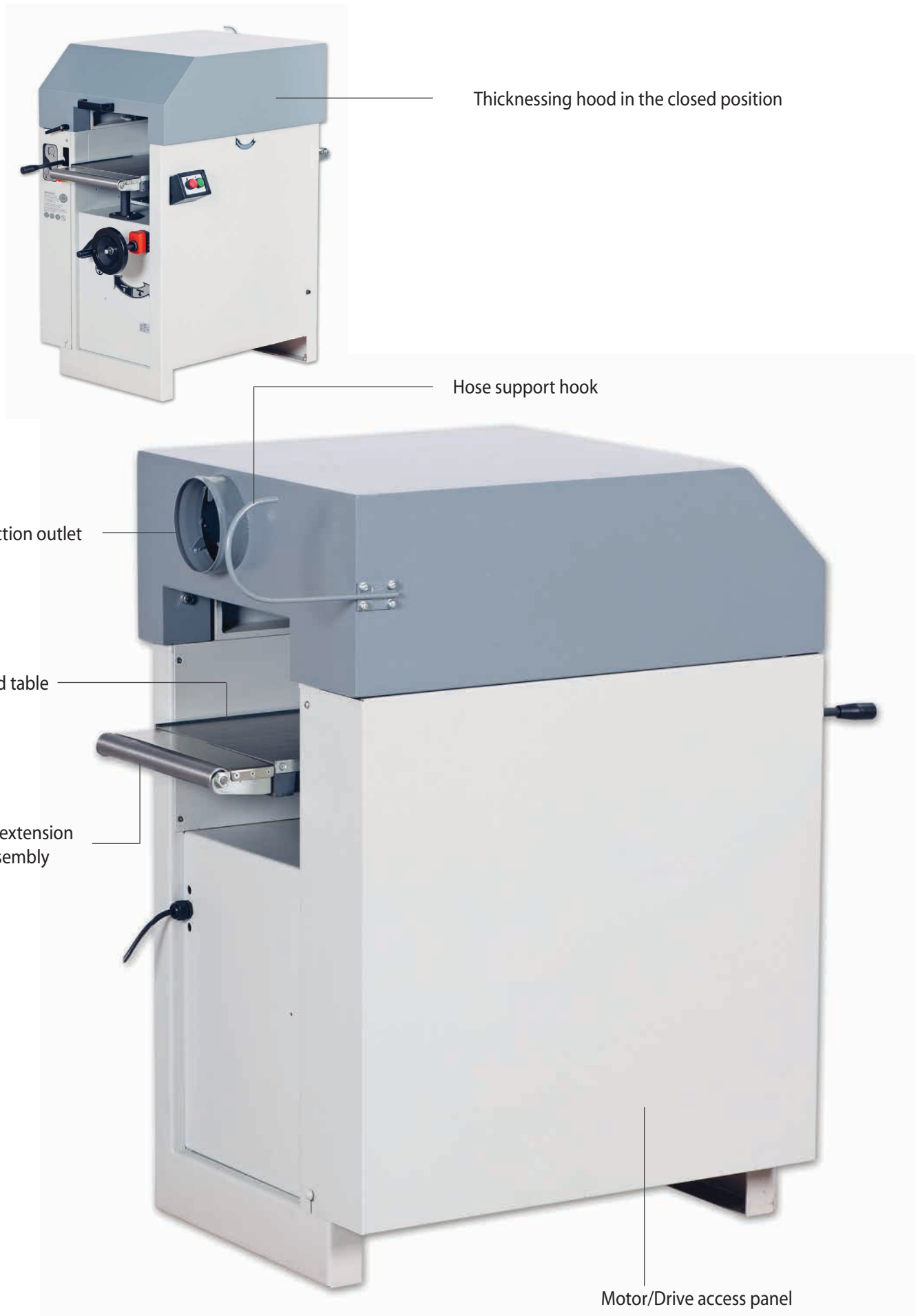


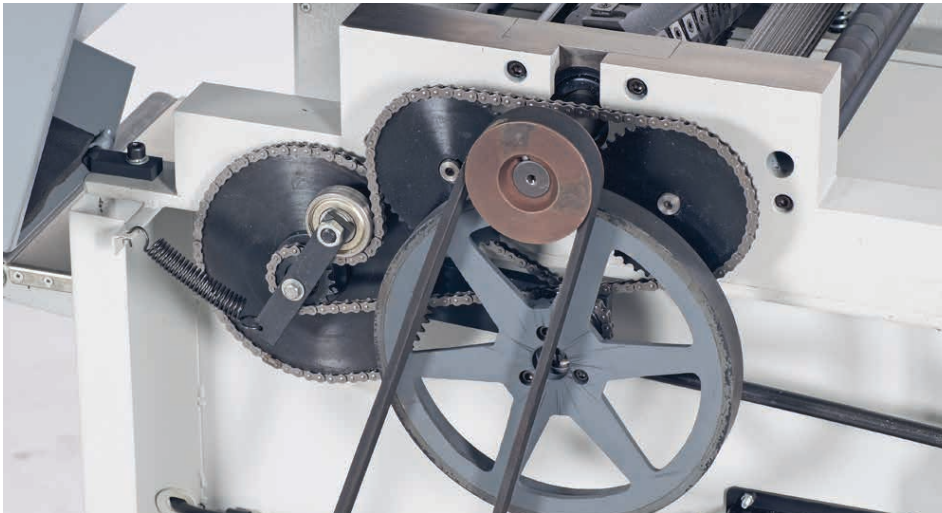
Rise and fall clamping handle (A), in the locked position
clamping handle (B), in the un-locked position



Thickening table rise and fall control wheel

ILLUSTRATION AND PARTS DESCRIPTION





Cutter block drive assembly



Thickener cover safety micro switch

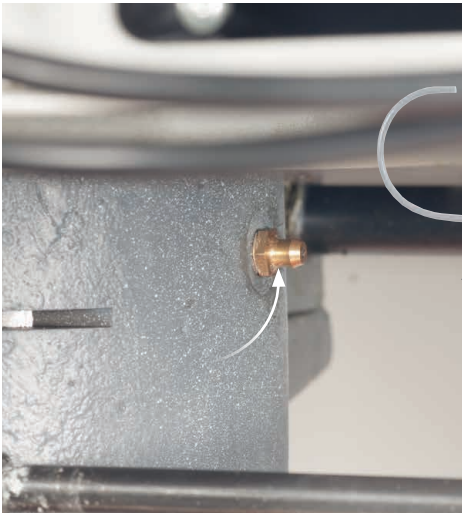


Table column grease nipple



Drive belt threaded tension stop

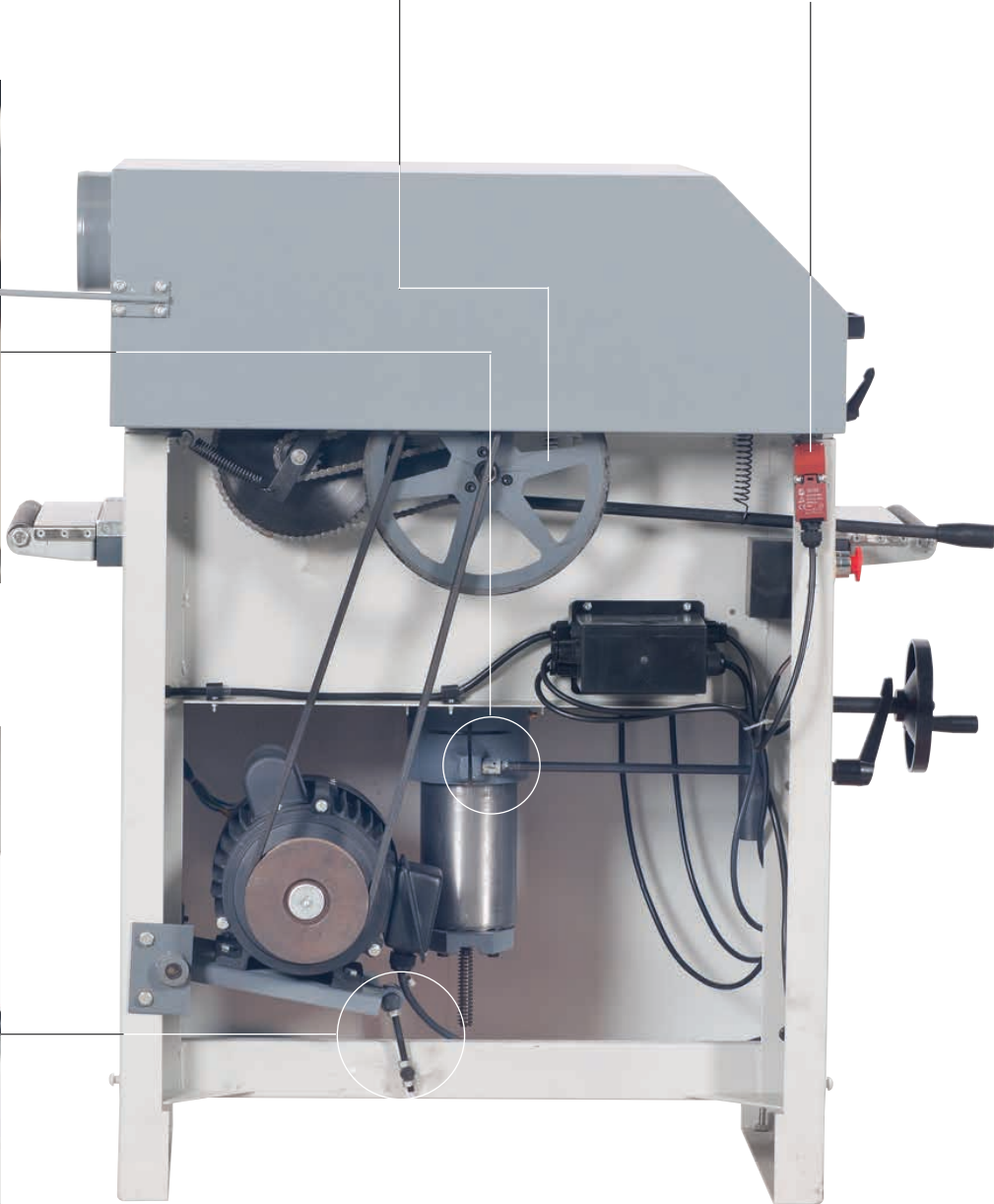
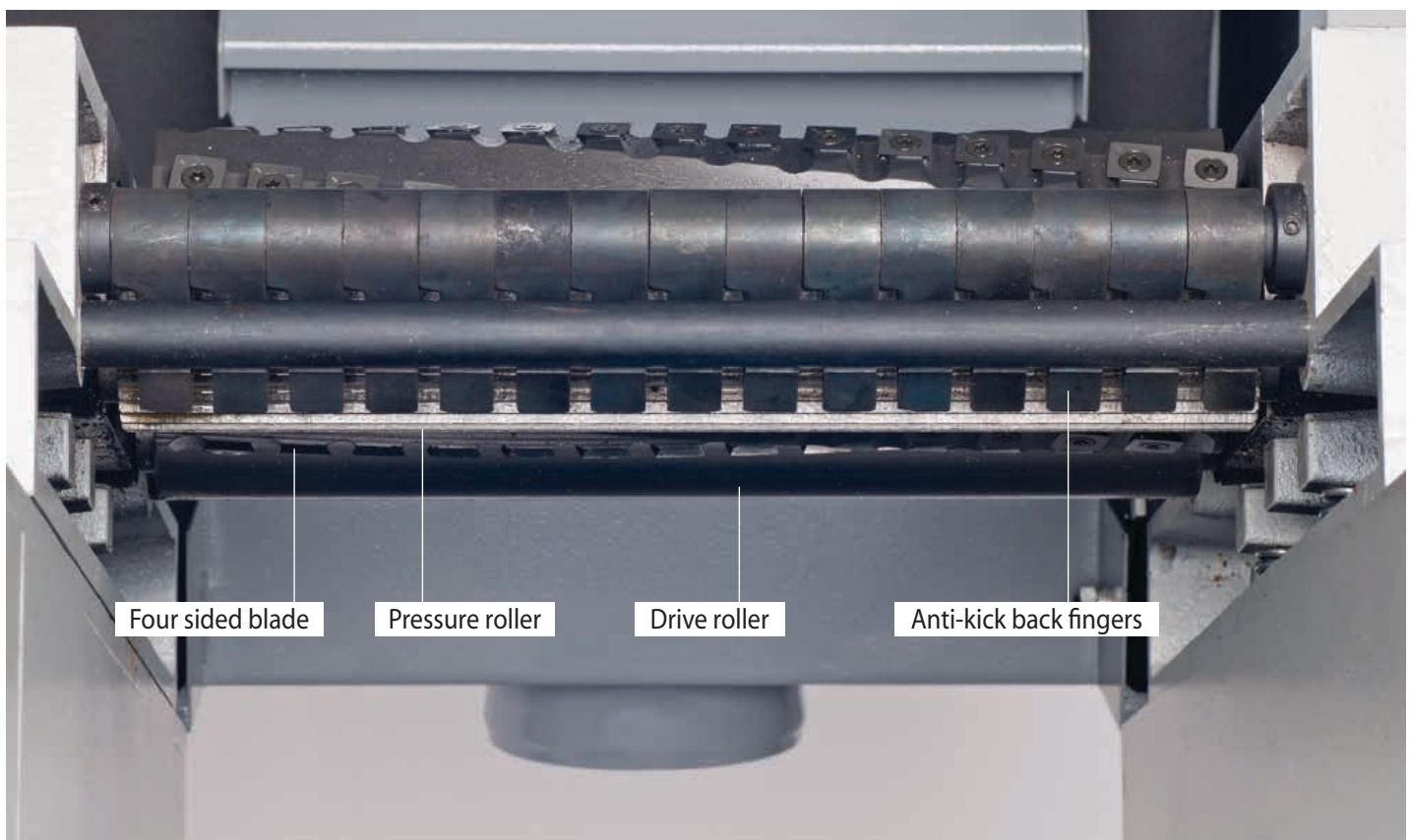
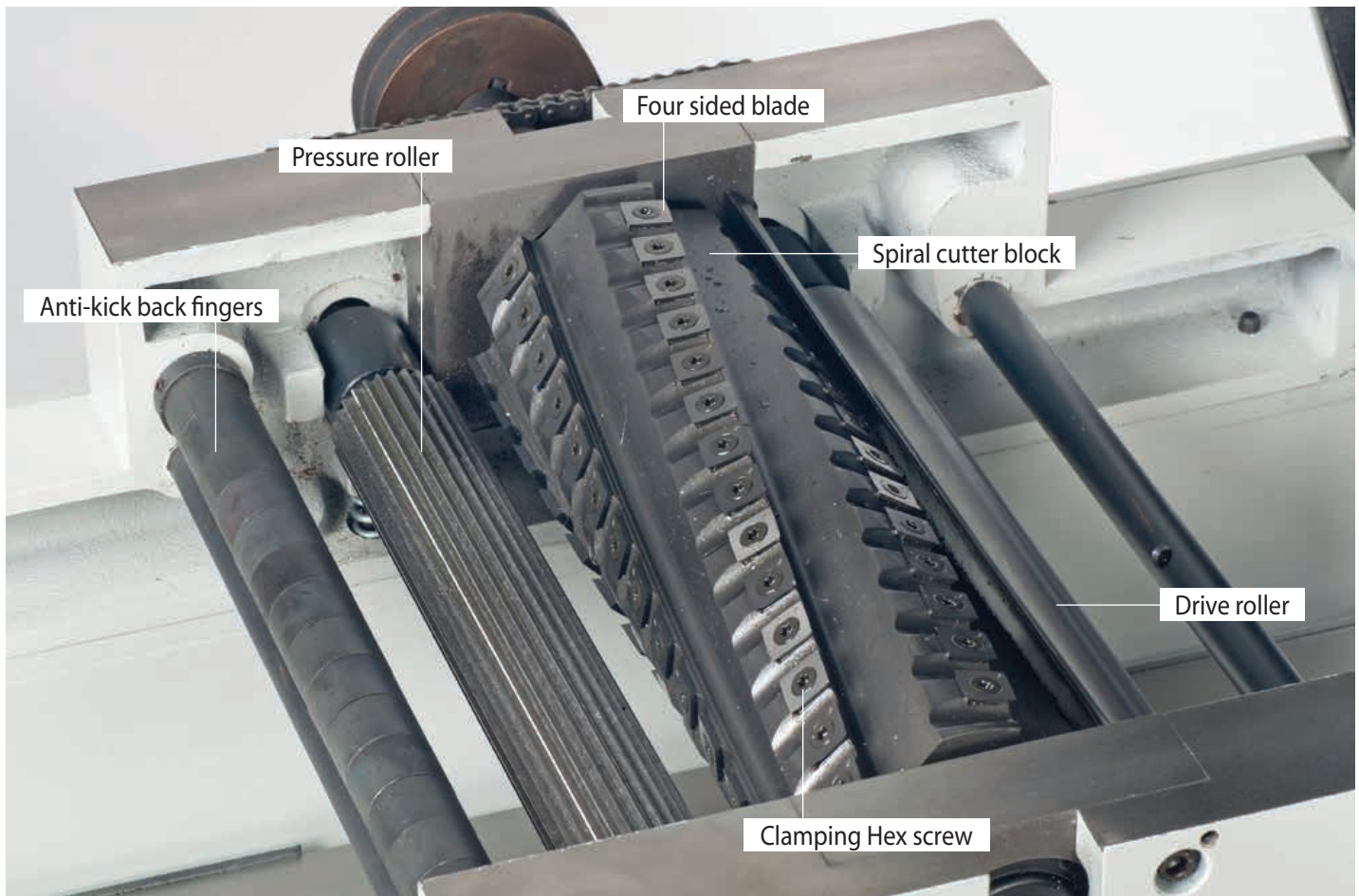


ILLUSTRATION AND PARTS DESCRIPTION



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 Thickening

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.

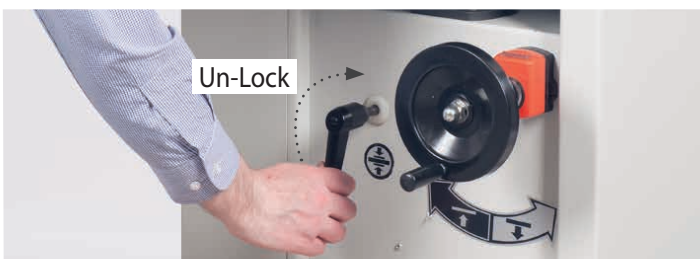
2. Connect a 125mm extraction hose to the extraction hood outlet.
3. Lower the thickening hood and secure in place with the lift and shift handle, see fig 10-11.

Fig 10-11



4. Release the rise and fall clamping handle (A) and turn the operating wheel (B) clockwise to raise the thickening 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 thickening 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.

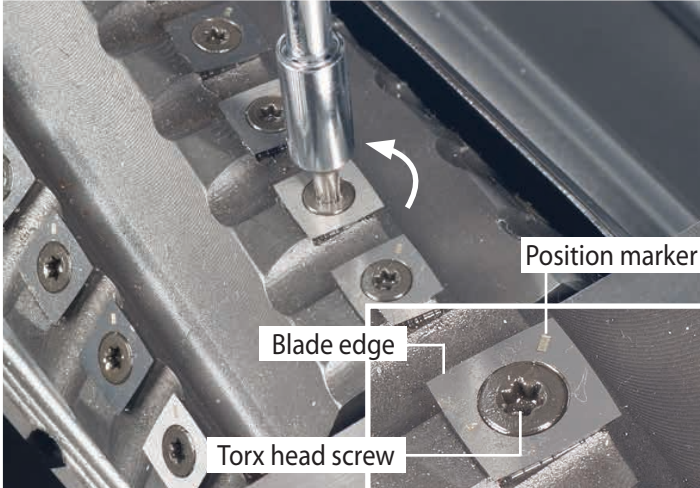
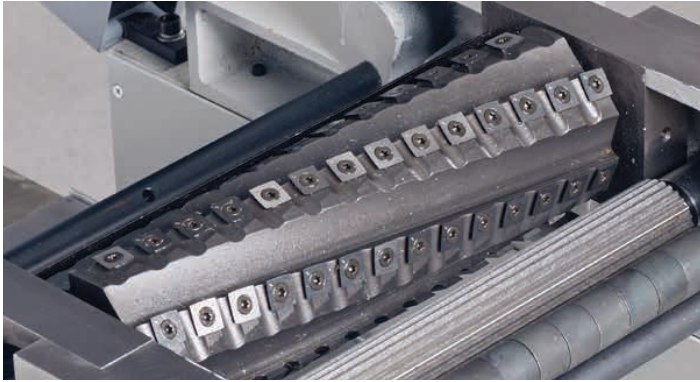


WARNING! BE VERY CAREFUL WHEN TURNING THE CUTTERS AS THE BLADES ARE EXTREMELY SHARP.



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.

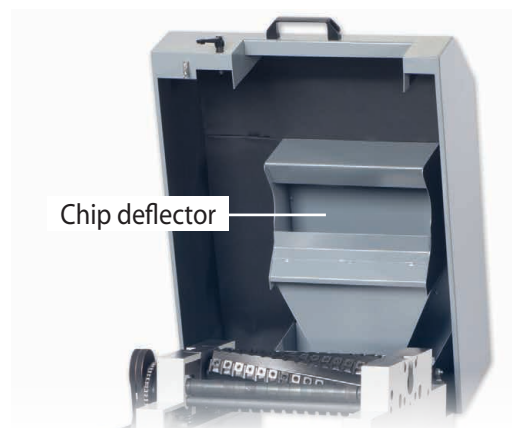
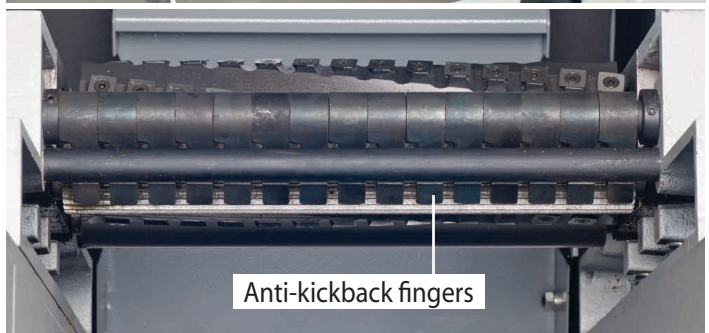
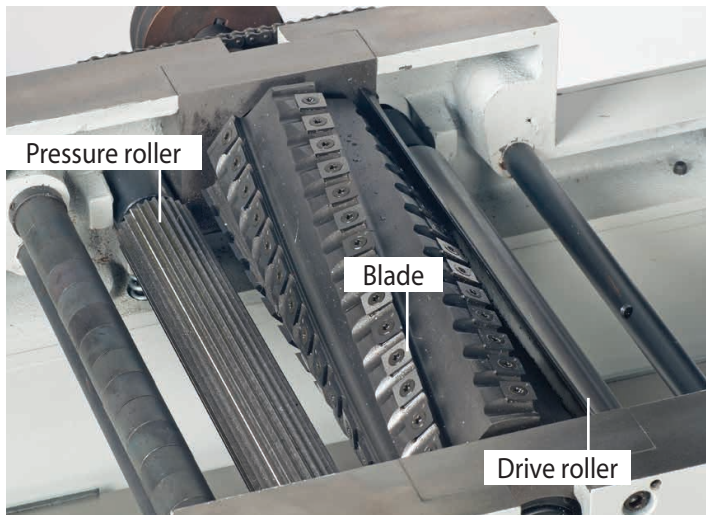
Check the action of the anti-kickback fingers, again clean and lubricate as required.

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



Access panel locating pin

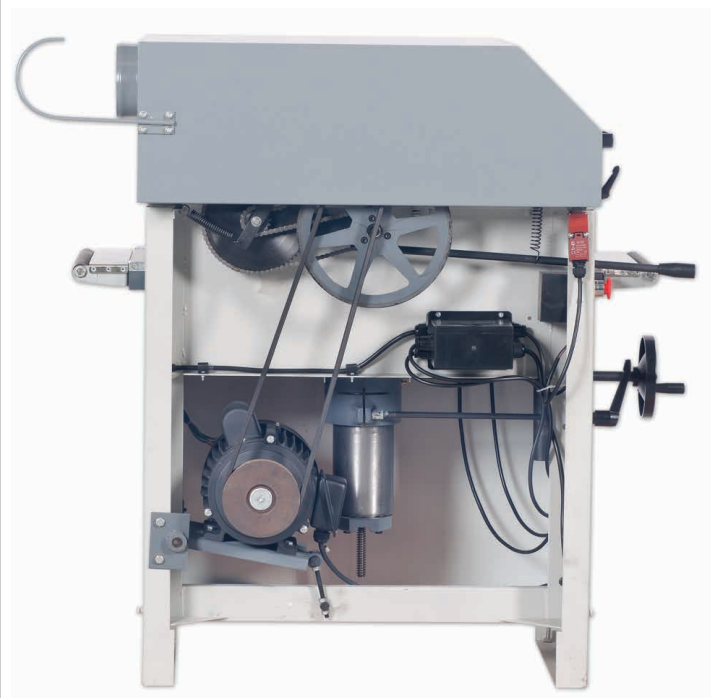


Fig 31-32



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

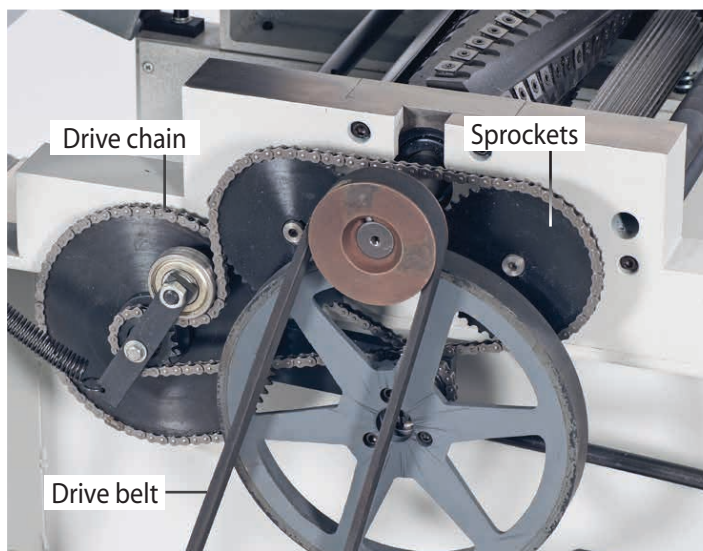
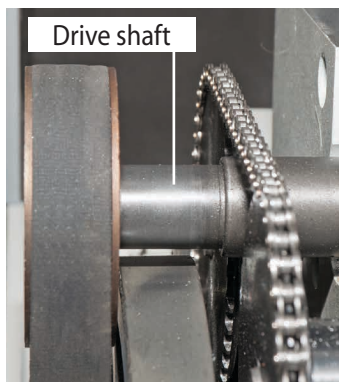
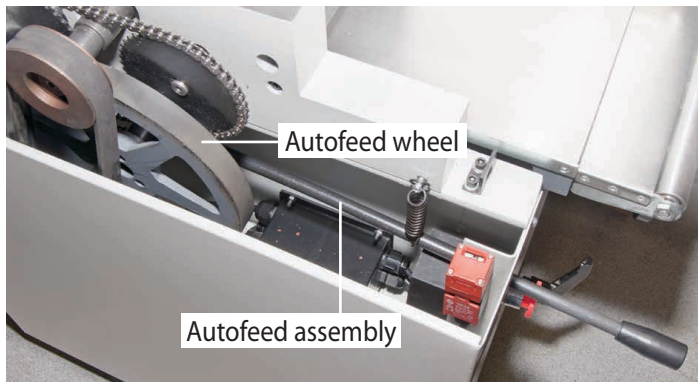


Fig 34-35



Autofeed wheel disengaged

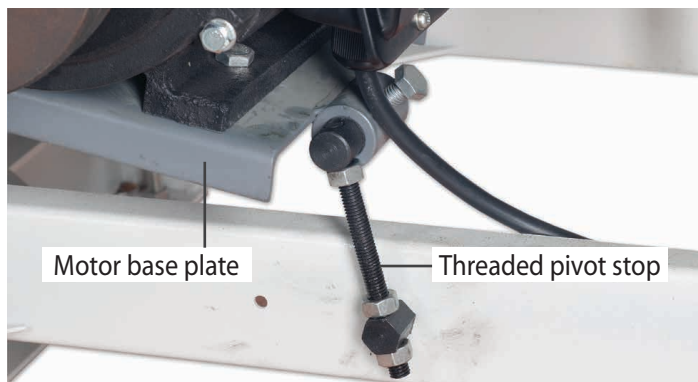


Autofeed wheel engaged

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

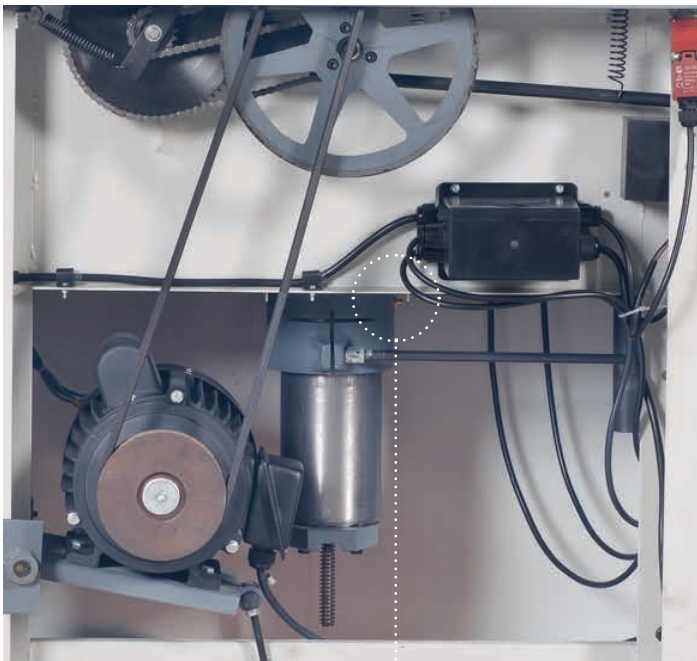


Table column grease nipple

Thickening Table

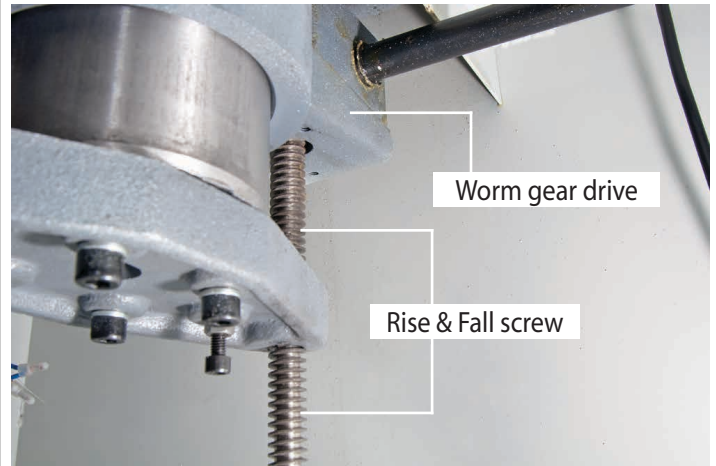
If the thickener is not going to be in use for long periods, apply a light coat of 'Lubricating Wax' (2) over the thickening table.



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.

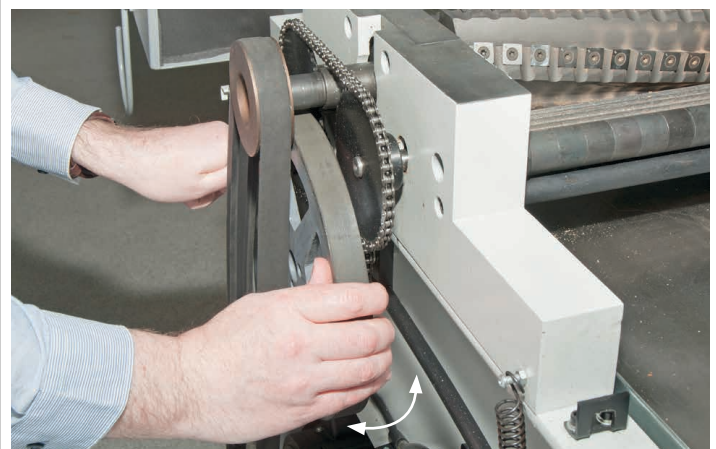
Fig 40



Autofeed Drive Wheel

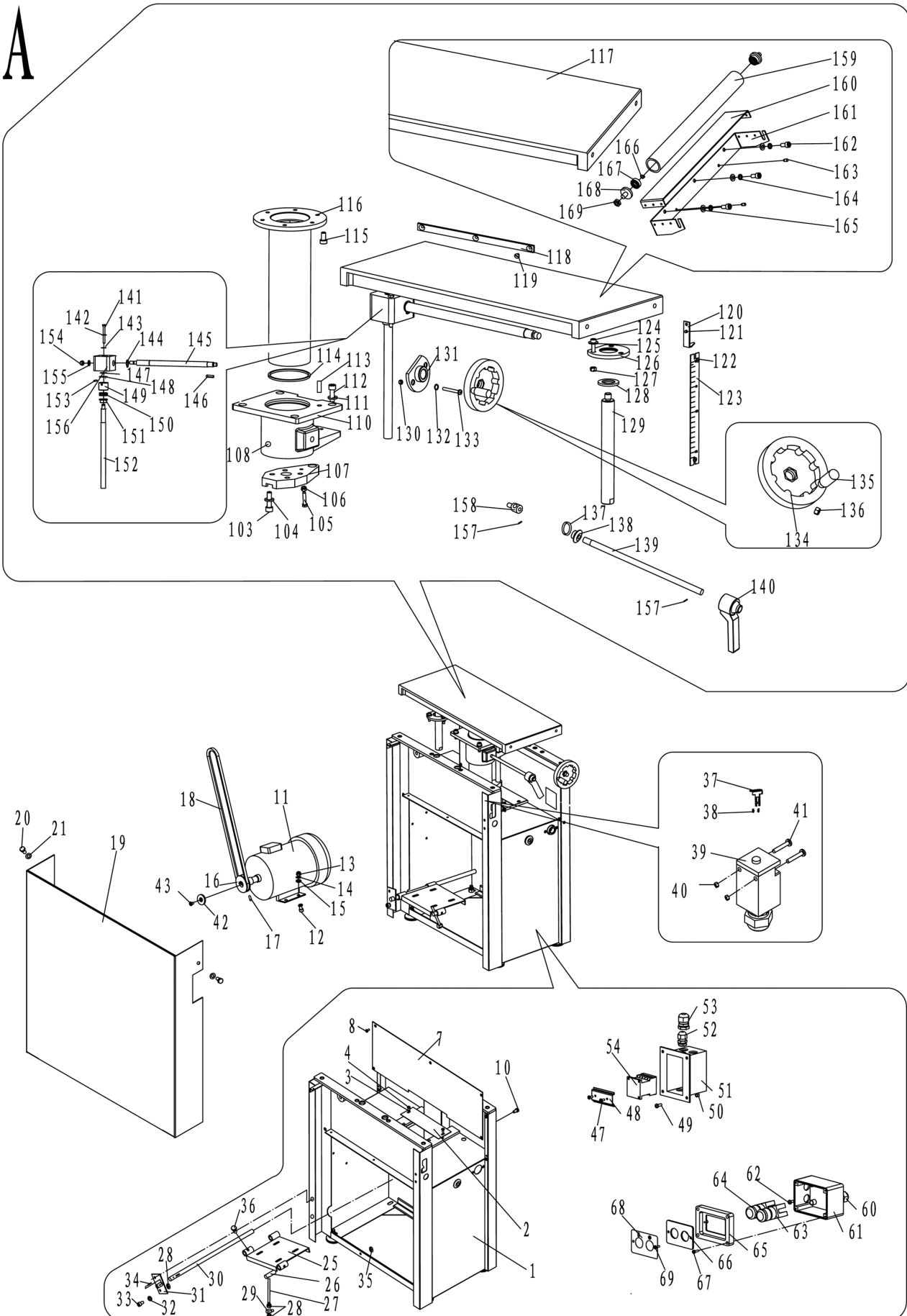
1. If the autofeed function lever is not disengaged after every use, over time depressions will form to the centre of the drive wheel. Check for any signs of wear on the autofeed wheel.
2. Check yearly for signs of side play in the autofeed drive wheel, see fig 41. If there is side play movement or depressions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

Fig 41



EXPLODED DIAGRAM/PARTS LIST

A



EXPLODED DIAGRAM/PARTS LIST

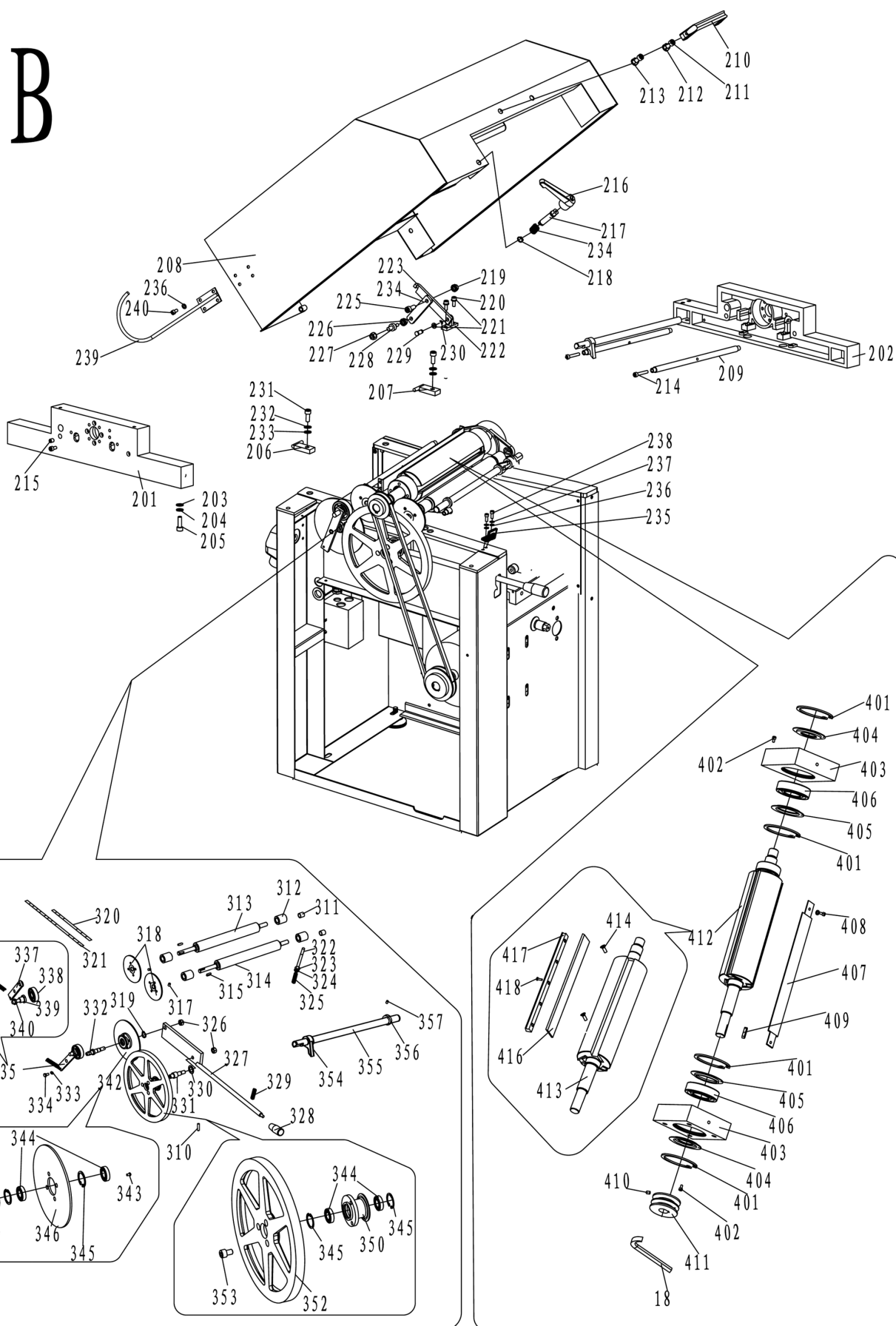
NO.	DESCRIPTION	QTY
1	BODY	1
2	SMALL PLATE	2
3	WASHER	9
4	SCREW M5x8	4
7	RIGHT COVER PLATE	1
8	SCREW M5x8	13
10	SCREW M10x16	1
11	MOTOR	1
12	SCREW M8X25	4
13	NUT M8	4
14	WASHER 8	4
15	WASHER 8	8
16	DRIVER PULLEY	1
17	SET SCREW M6X10	1
18	BELT L=1500	2
19	PROTECTION GUARD	1
20	PAN HEAD SCREW M5X12	2
21	WASHER 5	2
25	MOTOR BASE	1
26	PIN SHAFT	1
27	SCREW	1
28	NUT M8	5
29	ADJUSTING BOLT	1
30	SHAFT	1
31	MOUNTED PLATE	1
32	WASHER 8	2
33	SCREW M8X20	2
34	PIN 3.2X30	2
36	HEX BOLT M8x16	3
37	KEY FOR MICROSWITCH	1
36	MICROSWITCH	1
37	NUT M4	2
38	SCREW M4x10	2
39	MICROSWITCH	1
40	NUTM4	2
41	SCREW M4*35	2
42	WASHER	1
43	SUNK SCREW M6x16	1
44	BUTTON	1
45	SWITCH	1
47	TAPPING SCREW 4x12	2
48	DIAGRAM	1
49	SCREW M5X16	4
50	NUT M5	4
51	CONTACTOR BOX	1
52	CABLE STRAIN RELIEVER	3
53	CABLE STRAIN RELIEVER (ROHS)	3
54	CONTACTOR	1

103	SOCKET HEAD CAP SCREW M8x35	4
104	WASHER 8	4
105	SOCKET HEAD CAP SCREW M6x35	1
106	NUT M6	1
107	SUPPORT PLATE	1
108	OIL CUP M10	1
110	GUIDING BODY	1
111	SPRING WASHER 8	4
112	SCREW M8X20	4
113	SCREW M8X15	4
114	SEAL RING	1
115	SCREW M8X20	6
116	SLEEVE	1
117	TABLE	1
118	FENCE	4
119	SUNK SCREW M5X8	12
120	INDICATOR	1
121	PAN HEAD SCREW M5x8	2
122	PAN HEAD SCREW M4x6	2
123	SCALE PLATE	1
124	SCREW M6x20	3
125	WASHER 6	3
126	PLATE	1
127	SELF-LOCKING NUT M6	3
128	WASHER	1
129	MANDRIL	1
130	SELF-LOCKING NUT M6	2
131	PLATE	1
132	WASHER 6	2
133	SCREW M6x20	2
134	HANDWHEEL	1
135	BAR	1
136	NUT M12	1
137	CHECK RING 20	1
138	SUPPORTING SLEEVE	1
139	DOUBLE-THREAD SCREW	1
140	HANDLE	1
141	SCREW M6x65	2
142	SPRING WASHER 6	2
143	WASHER 6	2
144	CIRCLIP FOR SHAFT	1
145	GEAR SHAFT	1
146	FLAT KEY 5X12	1
147	FLAT WASHER 10	2
148	WASHER10	2
149	HELICAL GEAR	1
150	THRUST BEARING 51102	1
151	BUSH	1
152	LEAD SCREW	1
153	PIN 4X25	1

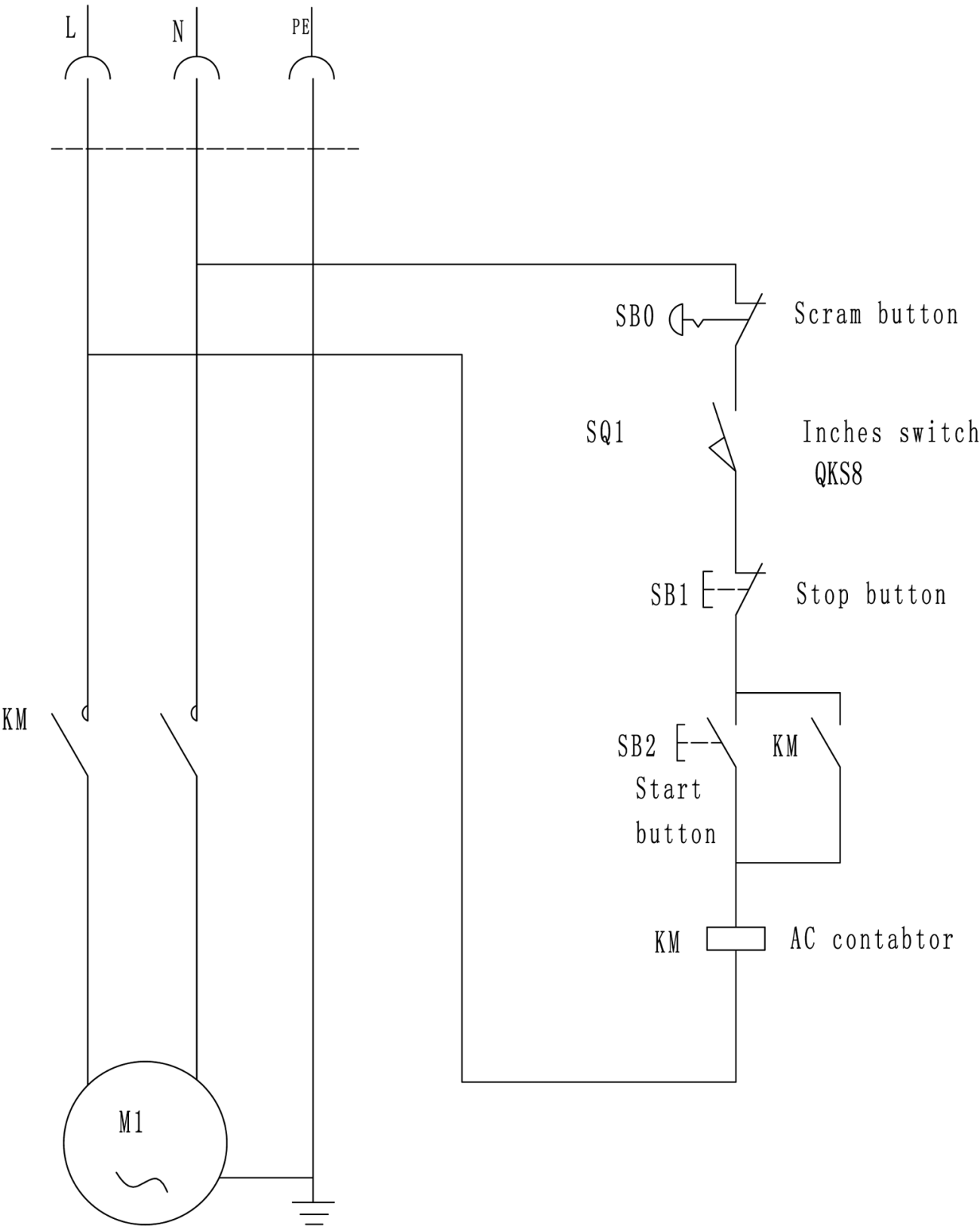
EXPLODED DIAGRAM/PARTS LIST

154	LOCK NUT M10	2
155	WASHER 10	1
156	GEAR BOX	1
157	PIN 4X18	2
158	LOCATING SLEEVE	1
159	ROLL SHAFT	2
160	COVER PLATE	2
161	U SUPPORT	2
162	SCREW M8x16	6
163	TACKING SCREW M6x10	4
164	SPRING WASHER 8	6
165	WASHER 8	6
166	SPLIT WASHER 6	2
167	BEARING 628	4
168	PIN ROLL	4
169	NUT M10	4
201	LEFT BRACKET	1
202	RIGHT BRACKET	1
203	WASHER 8	8
204	WASHER 8	8
205	SCREW M8x30	8
206	LEFT HINGE	1
207	RIGHT HINGE	1
208	TOP GUARD	1
209	SUPPORTNG SHAFT	2
210	HANDLE	1
211	SCREW M8*20	2
212	WASHER 8	2
213	NUT M8	2
214	SCREW M6X35	4
215	SCREW M6X16	3
216	HANDLE R63	1
217	ECCENTRIC ROD	1
218	CHECKING RING 12	1
219	SELF-LOCK NUT M8	1
220	SCREW M6*16	2
221	SPRING WASHER 6	3
222	SUPPORT I	1
223	ROD I	1
224	ROD II	2
225	SCREW M8x25	1
226	SELF-LOCK NUT M6	1
227	NUT M8	1
228	PIN ROLL	1
229	PIN ROLL	1
230	SPLIT WASHER 4	1
231	SCREW M8x25	2
232	SPRING WASHER 8	2
233	WASHER 8	2
234	SPRING	1
235	LOCKING PLATE	1
236	WASHER 6	6
237	SPRING WASHER 6	2
238	SCREW M6X10	2
239	HOOK PARTS	1
240	SCREW M6x12	4
310	SCREW M6x16	1
311	SHAFT SLEEVE	8
312	SLEEVE	4
313	ROLLER	1
314	DRIVING ROLL	1
315	B FLAT KEY 5x16	2
317	TACKING SCREW M6x10	2
318	CHAIN WHEEL	2
319	CHECK RING 12	1
320	CHAIN 05B-1X106	1
321	CHAIN 05B-1X90	1
322	STUD	4
323	WASHER 8	4
324	SELF-LOCKING NUT M8	4
325	SPRING	4
326	NUT M10	2
327	SHAFT	1
328	HANDLE	1
329	SPRING	1
330	WASHER 10	1
331	PIN ROLL	1
332	SPROCKET SHAFT	1
333	WASHER 6	1
334	BOLT M6x10	1
335	TENSION SYSTEM	1
336	TENSION SPRING	1
337	TENSION SUPPORT PLATE	1
338	BEARING 6303-2Z	1
339	PIN	1
340	WASHER 10	1
341	NUT M10	1
342	CHAIN WHEEL ASSEMBLY	1
343	SCREW M6x10	4
344	BEARING 6901-2Z	4
345	CIRCLIP 24	4
346	LARGE CHAIN WHEEL	1
347	CHAIN WHEEL	1
350	CHAIN WHEEL I	1
352	FRICTION WHEEL	1
353	SCREW M6x16	3
354	BOB	20
355	SPINDLE	1
356	SHAFT SLEEVE	2
401	CIRCLIP 62	4
402	SET SCREW M6X16	4
403	BEARING SEAT	2
404	COVER	2
405	COVER	2
406	BALL BEARING 2206	2
407	BACK PLATE	1
408	SCREW M5x12	2
409	B FLAT KEY 8x16	1
410	TACKING SCREW 6x10	1
411	DRIVEN PULLEY	1
412	CUTTER BODY	1
413	CUTTER	1
414	PRESSURE SPRING	8
416	BLADE FOR PLANE	4
417	WEDGE	4
418	SQUARE HEAD SCREW 6x10	24

B



WIRING DIAGRAM



PLANING
THICKNESSING
MOLDING MORTISING

NOTES

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