MINI LATHE & DRILLING MACHINE

MODEL NO: **SM2503**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

Warning: Wear eye protection

Warning: Wear ear protection

Warning: Refer to instructions

Warning: Disconnect power before carrying out maintenance

Warning: Electricity, keep others at a safe distance

1. SAFETY

1.1. ELECTRICAL SAFETY

❑ **WARNING!** It is the user's responsibility to check the following:

✓ Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.

Electrical safety information. It is important that the following information is read and understood:

✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.

✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.

✓ Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.

× **DO NOT** pull or carry the appliance by the power cable.

× **DO NOT** pull the plug from the socket by the cable.

× **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.

If the cable or plug is damaged during use, switch off the electricity supply and remove from use.

Ensure that repairs are carried out by a qualified electrician.

Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.

× **DO NOT** pull or carry the appliance by the power cable.

× **DO NOT** pull the plug from the socket by the cable.

1.2. GENERAL SAFETY

❑ **WARNING!** Disconnect the mini lathe and drilling machine from the mains power, and ensure the cutting tool or chuck is at a complete standstill before attempting to change accessories, service or perform any maintenance.

✓ Maintain the mini lathe and drilling machine in good condition (use an authorised service agent).

✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.

✓ Locate the mini lathe and drilling machine in a suitable area. Ensure the surface is flat and firm. Keep area clean and tidy and free from unrelated materials, and ensure there is adequate lighting.

✓ Keep the mini lathe and drilling machine clean for best and safest performance and check moving parts alignment regularly.

❑ **WARNING!** Before each use check that drill/chuck/cutting tool is secure and that it is not worn or damaged. If worn or damaged replace immediately.

❑ **WARNING!** Keep guard and holding fixings in place, tight and in good working order. Check regularly for damaged parts.

A guard, or any other part, that is damaged must be replaced with a new one, to ensure that it operates properly and performs its intended function, before the tool is used. The safety guard is a mandatory fitting where mini lathe and drilling machine is used in premises covered by the Health & Safety at Work Act.

✓ Remove adjusting keys and wrenches from the machine and its vicinity before turning it on.

❑ **WARNING!** Wear approved safety eye protection and, if oil mist is generated, respiratory protection.

✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.

✓ Keep hands and body clear of the work table when operating the mini lathe and drilling machine.

✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.

✓ Always clamp workpiece securely to the table or hold securely in a vice which is firmly mounted to the table. NEVER hold a workpiece by hand. Ensure that workpieces to be turned are held securely in the chuck. Long workpieces should be held at both ends and along their length with suitable steady rests.

✓ Keep children and unauthorised persons away from the working area.

❑ **WARNING! DO NOT** switch the mini lathe and drilling machine on whilst the drill or cutting tool is in contact with the workpiece.

Bring the drill or cutting tool gradually to the workpiece. Avoid unintentional starting of the mini lathe and drilling machine.

- × **DO NOT** force the mini lathe and drilling machine to achieve a task it was not designed to perform.
- × **DO NOT** allow untrained persons to operate the mini lathe and drilling machine.
- × **DO NOT** get the mini lathe and drilling machine wet or use in damp or wet locations or areas where there is condensation.
- ❑ **WARNING! DO NOT** use mini lathe and drilling machine where there are flammable liquids, solids or gases such as petrol, paint solvents, waste wiping rags etc.
- × **DO NOT** operate the mini lathe and drilling machine if any parts are missing or damaged as this may cause failure and/or possible personal injury.
- × **DO NOT** remove the safety guard whilst in use.
- × **DO NOT** attempt to remove a workpiece until the drill, cutting tool or chuck has stopped rotating.
- × **DO NOT** touch the workpiece close to the cut as it will be very hot. Allow to cool.
- × **DO NOT** leave the drill or cutting tool operating unattended.
- × **DO NOT** operate the drill or cutting tool when you are tired or under the influence of alcohol, drugs or intoxicating medication.

2. INTRODUCTION

Bench mounting, multifunction mini drill, mill and lathe with variable speed giving flexibility to handle most materials. Features two 150W motors, one to operate the drill/mill and the other to power the lathe. The lathe cutting feed can be power driven or advanced manually. Thread cutting may also be undertaken with the optional thread cutting kit. Supplied with Metric graduated scales and all necessary tools required for setting and adjusting. An optional stand is available, order Model No. SM3002ST.

3. SPECIFICATION

Model No	SM2503
SPECIFICATION (CUTTING)	
Swing over bed	140mm
Distance between centres	250mm
Spindle Hole Taper	MT2
Cross slide travel	61mm
Tailstock taper	MT1
Spindle speed (variable)	100 to 2000rpm
Motor Power	2 x 150W - 230V
Range of metric threads	5 pitches (0.5 to 1.25mm)

SPECIFICATION (DRILLING)	
Max drilling/milling capacity	10mm
Travel of drilling/milling spindle	30mm
Drilling/milling spindle speed	100 to 1300rpm
T-slot	8mm
Output power	150W
Net/gross weight	40/50kg
Distance from spindle to table	180mm
Distance from spindle centre to column front	100mm

4. CONTENTS & ASSEMBLY

❑ **WARNING! At least two people will be required to move the machine. Observe good lifting practice.**

4.1. Unpack the product and check that all components and tools are present and undamaged. If any problem is noted contact your supplier immediately.

4.2. The machine has been coated with heavy grease to protect it in shipping. Remove the coating with commercial degreaser, kerosene or similar solvent before operating. Avoid getting the solvent on rubber parts. After degreasing coat the machined surfaces with a medium consistency machine oil.

4.3. **MOUNTING THE MACHINE**

4.3.1. Locate the machine on a flat, level and strong work surface. Do not locate in direct sunlight or where heavy dust or moisture is present.

4.3.2. Drill the location holes in accordance with the dimensions shown in fig.2 and bolt the machine to the bench using three M6 nuts and bolts. (Not provided.)

CONTENTS: (Not illustrated)

- ● Mini drilling/milling/cutting machine.

1. 'C' Wrench (28/32mm)
2. Drill chuck and taper shank
3. Drill chuck key
4. 3 Hex keys (3,4,6mm)
5. Double ended spanner 8-10
6. Lathe chuck key.
7. 3 External chuck jaws
8. 8mm 'T' nuts
9. Fuse
10. Tailstock centre

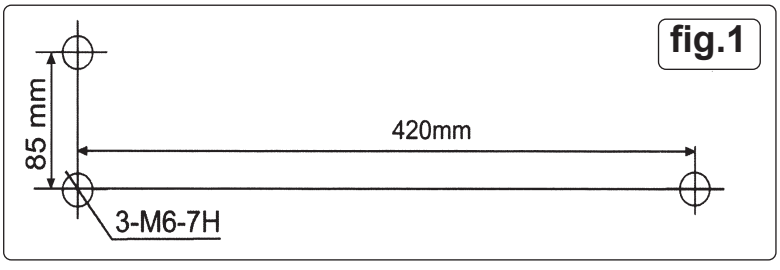


fig.1

5. OPTIONAL ACCESSORIES

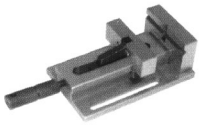
STEADY REST

SM2503SR

FOLLOW REST

SM2503FR

QUICK VICE (50mm)



SM2503QV

MILL CHUCK SET (MT2)

SM2503MCSET (3,4,5,6,8,10diam.)

2 FLUTE HSS END MILL SET

SM2503EMSET (3,4,5,6,8,10 diam.)

COLLET SET (MT2)

SM2503CSET (3,4,5,6,8,10 diam.)

INDEXABLE CARBIDE END MILL

SM2503ICEM(16mm MT2)

METRIC THREAD CUTTING KIT

SM2503TCK (40,42,45,48,50,54,60)

TAILSTOCK CHUCK+SHANK

SM2503TC (MT1 10mm)

ROLLING CENTRE

SM2503RC (MT1)

HEADSTOCK CENTRE

SM2503HC (MT2)

TOOL HOLDER SET(Cut off type, 70 x 2 x 10mm)

SM2503THSET (Boring cutter, diam.10mm)

CUT OFF TOOL & BORING TOOL

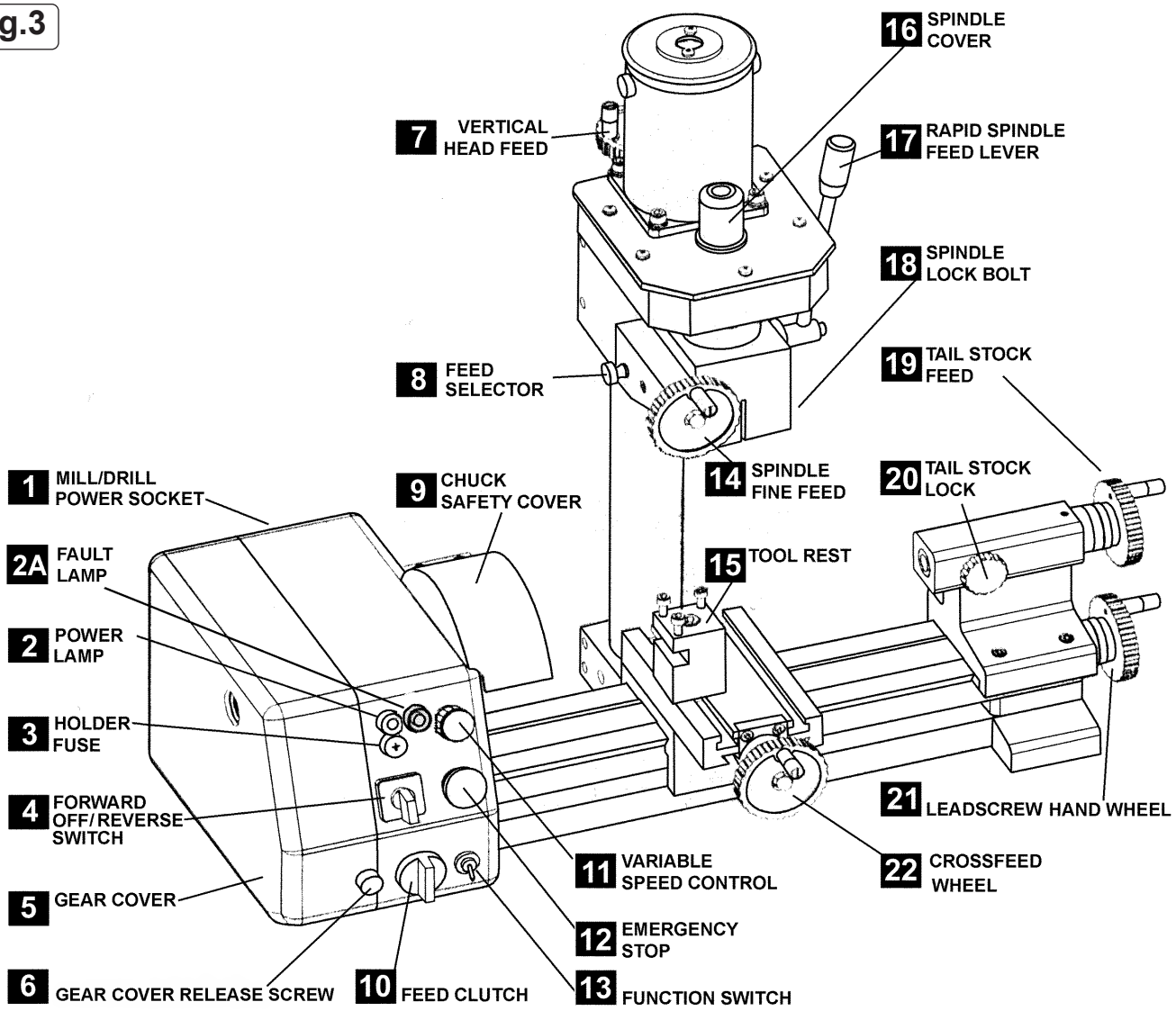
SM2503COBT

FACEPLATE (Diam.112mm)

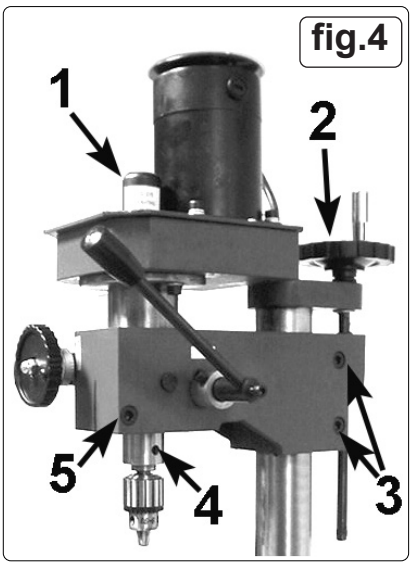
SM2503FP ('T' slot 8mm)

fig.2

fig.3



It is assumed that the operator has some experience of machining practice and therefore these instructions are intended only to describe the features of the machine. If you have no experience of machining it is recommended that you undertake a training course or seek advice from an experienced source.



❑ **WARNING!** Before operating the drilling/milling machine ensure you are wearing approved safety goggles and gloves to protect you from swarf and metal particles. If using cutting oil or coolant a face mask may be necessary to avoid breathing any vapour generated. Ensure that all other safety instructions in chapter 1 are followed carefully.

5.1. **SETTING UP FOR MILLING. (Disconnect the machine from the power supply whilst setting up.)** The machine is supplied without milling attachments. Contact your local Sealey dealer for a full range of accessories.

5.2. **MOUNTING THE CUTTING TOOL.** If the drill chuck and arbor are currently mounted, remove them by the following method. Access the arbor bolt by pulling off the plastic cap (See fig.4-1) which covers the top of the spindle shaft and place an 8mm spanner onto the flats at the top of the shaft. Insert a rod into the hole in the side of the spindle shaft (See (fig.4-4) to prevent it turning and loosen the arbor bolt by two turns. Give the arbor bolt a sharp tap with a rubber mallet in order to release the arbor from the internal taper. Continue to unscrew the arbor bolt by hand whilst supporting the drill chuck and arbor until they become loose and can be removed.

5.2.1. Select the cutting tool for the work in hand and the appropriate arbor or collet.
Wear protective gloves at all times especially when handling the cutter. Introduce the cutter assembly into the spindle sleeve and hold it in place whilst the arbor bolt is tightened by hand. Insert a rod into the hole in the side of the spindle shaft to prevent the spindle rotating and tighten the arbor bolt with a spanner (do not overtighten).
Remove the rod and replace the plastic cap.

5.3. ATTACHING THE WORKPIECE. The workpiece will be mounted to the crossfeed table utilising the 8mm 'T' slots provided for the tool rest.

5.4. SETTING AND LOCKING THE CUTTER HEIGHT
Once the workpiece and cutter are mounted, the cutter can be lowered to the correct position to achieve the desired cut. The spindle shaft vertical movement is 30mm. If this does not bring the cutter into the vicinity of the workpiece the whole head can be moved down the column to achieve the desired cutter position. Adjust cutter and head height as described below. To ensure accuracy during milling the cutter height setting must then be locked as described below.

5.5. SETTING THE HEAD HEIGHT
The overall height of the head on the column can be altered by using the head vertical feed wheel (see fig.4-2). To alter the head height first loosen the two socket cap bolts adjacent to the vertical leadscrew (see fig.4-3). Use the handwheel to move the head to the desired height and tighten the socket cap screws to lock the head in position.

5.6. ENGAGING VERTICAL FINE FEED
The drilling/milling spindle travel is controlled for milling purposes by the fine feed wheel (see fig.3-14). To engage the fine feed wheel push the feed selector knob (see fig.3-8) inwards. This action automatically disengages the rapid spindle feed lever (see fig.3-17). Once the spindle/cutting tool has been moved to the correct height it can be locked in this position by tightening the socket cap bolt on the right hand side of the head (see fig.4-5).

5.7. CALIBRATED FEED

5.7.1. Each feed wheel has an adjustable calibration ring situated on the feed shaft immediately behind the wheel. The rings can be rotated by hand and set to an adjacent mark in order to execute a cut of a specific depth.

5.7.2. The longitudinal feed ring has 31 divisions to one full rotation of the wheel. One segment represents a movement of 0.05mm.
The cross feed ring has 50 divisions to one full rotation of the wheel. One segment represents a movement of 0.025mm.
The longitudinal feed ring has 36 divisions to one full rotation of the wheel. One segment represents a movement of 0.05mm.

5.8. MAIN ON/OFF SWITCH WITH SPEED CONTROL AND EMERGENCY SHUT OFF

5.8.1. The function switch (see fig.3-13) allows you to select either **milling/drilling** or **cutting** on the lathe. The switch has a central OFF position. Set the switch to milling/drilling.

5.8.2. Select the direction of rotation (forward for milling/drilling) using the forward/OFF/reverse switch (see fig.3-4).

5.8.3. Ensure that the variable speed control (see fig.3-11) is set at '0' otherwise the machine will not start.

5.8.4. Connect the machine to the mains power supply. The green power lamp (see fig.3-2) will illuminate.

5.8.5. If the light does not illuminate release the emergency off switch by twisting the button clockwise until it jumps up.

5.8.6. Rotate the rotary speed switch slowly clockwise. As the knob is turned a click will be heard and the motor will start. As the knob is turned further the speed will increase. Set the knob to the desired speed.

5.9. **STOP MODES**

5.9.1. There are three 'stop' modes as described below.
(A). To stop the machine for a short while and then restart, simply return the rotary speed switch to the '0' position. When you are ready to restart, rotate the switch clockwise to the desired speed.
(B) If the machine is to be left unattended for any length of time, switch the forward/reverse switch to 'OFF' as well as returning the speed switch to '0'.
(C) In an emergency hit the large red emergency button which automatically cuts the electrical supply to the machine. Before the machine will start again the rotary speed switch must be returned to the '0' position and the emergency switch must be released.

5.9.2. In case of an irregularity, the machine will shut off (the emergency switch will cut the power). Once the emergency stop button is released, the fault light (fig.3.2A) will illuminate. In order to restart the process, attend to what caused the irregularity, turn the forward/reverse switch (fig.3.4) to the off '0' position, turn the speed switch (fig.3.11) to '0' and turn the emergency switch (fig.3.12) clockwise. The fault light should go out and the machine can be started as in section 5.18.4. below.

5.10. SETTING UP FOR DRILLING.(DISCONNECT THE MACHINE FROM THE POWER SUPPLY WHILE SETTING UP.)

5.11. ENGAGING RAPID DRILL FEED
The rapid drill feed is controlled with the lever on the right hand side of the head. (See fig.3-17) The rapid drill feed will not operate if the vertical fine feed wheel used for milling is still engaged. To make the rapid drill feed operative pull the feed selector knob outwards. (See fig.3-8).

5.12. MOUNTING THE CHUCK AND ARBOR

If the milling cutter and arbor are currently mounted, remove them by loosening the arbor bolt by two turns and giving it a tap with a rubber mallet. Access the arbor bolt by pulling off the plastic cap which covers the top of the spindle shaft and place an 8mm spanner onto the flats at the top of the shaft. Insert a rod into the hole in the side of the spindle shaft (See fig.4-4) to prevent it turning and loosen the arbor bolt by two turns. Give the arbor bolt a sharp tap with a rubber mallet in order to release the arbor from the internal taper. Continue to unscrew the arbor bolt by hand whilst supporting the milling cutter and arbor until they become loose and can be removed. (**Wear protective gloves**.) Insert the chuck arbor into the bottom of the spindle shaft and retain it with the arbor bolt. Do not over tighten. The drill chuck is a shallow taper fit onto the end of the drilling arbor. Using the chuck key open the jaws of the chuck until they withdraw inside the chuck body. Place a piece of wood onto the cross feed bed and position the chuck on it below the spindle shaft. Using the drill feed, wind the spindle shaft down until the arbor enters the chuck. Exert firm but not excessive downward pressure on the chuck to retain it on the arbor.

5.13. DRILL BITS

Insert an appropriate drill bit into the chuck and tighten the chuck with the chuck key. Remove the chuck key.

5.14. ATTACHING THE WORKPIECE

The cross feed bed of the machine has 2 inverted 8mm 'T' slots in it for fixing the workpiece or any vice/clamping arrangement used to hold the workpiece.

5.15. ALTERING THE HEIGHT OF THE HEAD

5.15.1. If the tip of the drill bit is not close enough to the workpiece alter the height of the head on the column as described in section 5.4.

5.15.2. Speed control and ON/OFF operation. Refer to Section 5.7 for the operation of the main ON/OFF switch and speed setting.

5.15.3. Avoid subjecting drills and cutting tools to excessive strain. Do not apply undue force on the handle in order to cut the workpiece. Maintain a controlled cutting speed through the workpiece.

5.16. SETTING UP FOR CUTTING ON THE LATHE. (Disconnect the machine from the power supply while setting up.)

5.16.1. The chuck. The chuck is attached to the faceplate with 3 studs and nuts. Check that these fixings are secure before proceeding. The chuck is provided with two sets of jaws for either external or internal holding of objects to be turned. Select and fit the appropriate jaws. Using the chuck key wind out the jaws to their maximum extent at which point they can be pulled out by hand. The thread segments are staggered differently on each jaw and therefore the jaws are numbered 1 to 3. Insert the jaws in sequence beginning with No1 and in an anti clockwise direction as you face the chuck. Hold them under pressure whilst turning the key until they are picked up by the mechanism and start to move towards the centre of the chuck. Check that the three jaws come together correctly at the centre of the chuck. If not, wind the jaws out again and press on the misaligned jaw until it drops into place.

5.16.2. Tailstock/centre. Material/stock that is too long to be held in the chuck alone can be steadied by a centre fitted into the tailstock. Once one end of the workpiece is fixed into the chuck loosen the two socket cap screws holding the tailstock and slide it up to the unsupported end of the workpiece so that the centre is close to it. Tighten the tailstock socket cap screws. Now wind the tailstock wheel so that the centre makes contact with the end of the workpiece and lock its position by tightening the tailstock lock.(See fig.3-20)

5.17. TOOLREST

5.17.1. Mount the toolrest utilising the 'T' slots in the cross feed table. Insert an appropriate cutting tool into the split carrier and mount the tool and carrier into one side of the toolrest. Now make any necessary adjustments to the position of the toolrest and carrier to allow the cutting edge of the tool to be correctly presented to the workpiece. The tool should be cutting in a plane that passes through the centre axis of the workpiece or just below it.

5.17.2. The angle of the tool when viewed from above may be changed by loosening the central holding bolt on the toolrest and twisting the whole rest on the bed to obtain the desired angle.

5.17.3. One side of the toolrest will clamp the tool and carrier parallel to the bed of the machine. On the other side of the toolrest the tool and carrier rests on a contoured block which allows the tool to be inclined upwards or downwards by a few degrees. The angle of tilt is controlled by adjusting the two socket cap bolts which bear on the tool carrier.

5.17.4. Adjust the crossfeed wheel and longitudinal feed so that the tip of the tool is in the correct position to commence cutting when the machine is turned on. Before turning on check that all fixings holding the tool are tight.

5.18. STARTING THE MACHINE

5.18.1. Lower the guard over the chuck. (The machine will not start with the guard in the up position.) Check that the function switch is set to 'cutting'.

5.18.2. Select either manual cutting or automatic feed using the clutch knob. See fig.3-10. (When selecting autofeed it may be necessary to rotate the leadscrew hand wheel slightly before the clutch will engage.)

5.18.3. Select the direction of cut using the forward/reverse switch. When using autofeed ensure that the saddle/cross feed/toolrest are positioned at the intended start of the cut and that the correct direction has been selected. In general the cut will usually start from the tailstock direction and progress towards the chuck.

5.18.4. Rotate the rotary speed switch slowly clockwise (fig.3.11). As the knob is turned a click will be heard and the motor will start. As the knob is turned further the speed will increase. Set the knob to the desired speed.

❑ **WARNING!** The machine should never be left unattended whilst switched on during manual or automatic operation. In particular when a cut is in progress using autofeed the operator must observe the entire cut and be on hand to switch the machine off as the cutting tool approaches the chuck or other holding devices. Failure to do this may result in damage to the machine and will invalidate the warranty.

5.19. AUTOFEED RATE/THREAD CUTTING

5.19.1. The machine is supplied with a gear set which gives a cutting rate of 0.05mm per single chuck rotation when autofeed is selected. (See fig.7 and the standard gear set up highlighted in the gear ratio table below.) By purchasing the optional metric thread cutting kit (Part No.SM2503TCK) the machine becomes capable of an additional autofeed rate of 0.01mm and will cut metric thread pitches 0.5/0.7/0.8/0.1&1.25mm as indicated in the gear ratio table.

5.19.2. CHANGING GEAR SETS

5.19.3. To set up the machine for a particular thread pitch or feed rate refer to the gear ratio chart for the sizes of Z1,Z2 & Z3 and then identify the actual gears. (The number of teeth on each gear is moulded into the face of the gear.) Gears Z1 and Z2 are pairs of gears which are a push fit onto a splined sleeve. Ensure that the correct pairs are on the sleeve together according to the chart.

5.19.4. Remove the existing gear set. Use a large screwdriver to remove Z1 and then Z2. Use a 4mm hex key to remove Z3. The mountings for Z1 and Z2 are slotted (See fig.6) to allow the centres of the gears to move to accommodate the differing sizes.

5.19.5. To assemble the new gear set attach Z3 first and tighten the fixing. As gears Z1 & Z2 overlap attach the 'hidden' gear first. The attachment slots have a sliding nut positioned at the rear of the plate. Slide the nut into the approximate position required. Screw the

gear into place but leave it loose enough to slide. Attach the final gear to the sliding nut in the other slot and allow the gears to settle into position. When you are satisfied that the gears are fully meshed tighten the fixings for Z1 and Z2. Close and secure the gear cover and test run the machine to ensure that the drive train is fully functional.

THREAD PITCH		0.5		0.7	
	W		36		36
	Z1	24	42	24	40
	Z2	40	60	42	45
	Z3	72		72	
THREAD PITCH		**0.8**		**1.0**	
mm	W		36		36
	Z1	24	42	24	42
	Z2	40	45	40	48
	Z3	60		45	
THREAD PITCH		**1.25**			
	W		36		
	Z1	24	42		
	Z2	50	48		
	Z3	45			
Z1 W Z3 Z2	mm /r	FEED RATE 0.05		FEED RATE 0.10	
	W		36		36
	Z1	24	72	24	54
	Z2	76	19	60	19
	Z3		90		76

Standard gear set up (see fig.7)

fig. 5

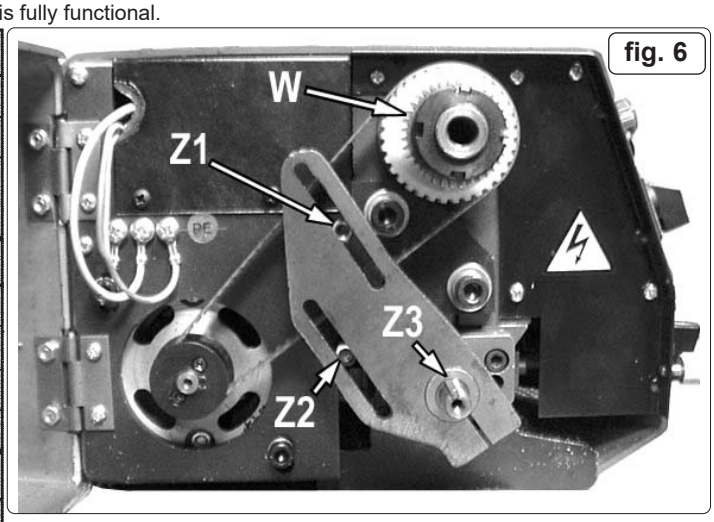


fig. 6

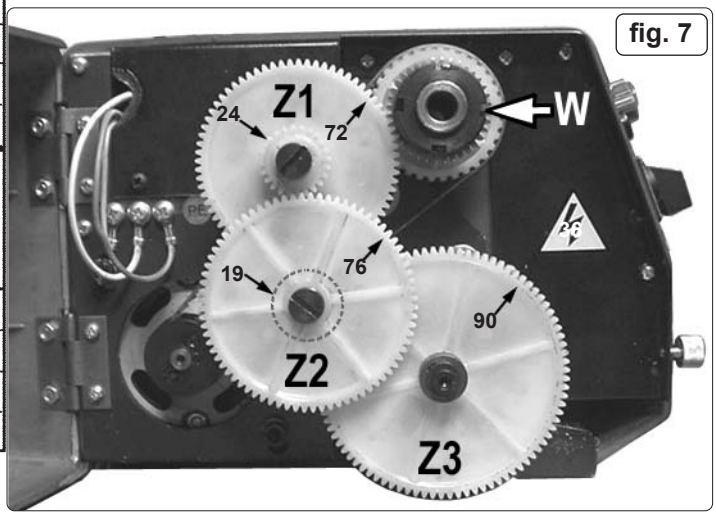


fig. 7

6. MAINTENANCE

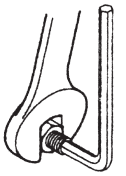


fig. 8

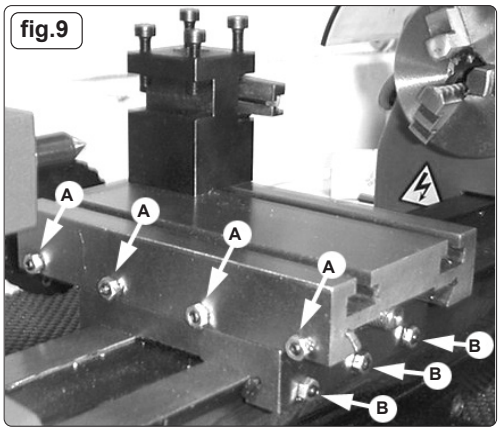


fig.9

❑ **WARNING!** Ensure the machine is unplugged from the mains power supply before attempting any maintenance. For maximum performance it is essential that the lathe is properly maintained.

6.1. Lubricate the machine before every use. Lubricate the bearings at either end of the leadscrew once or twice during the day if used continuously. Open the gear train cover to gain access to the left hand bearing. Inject oil into the compound's slide oilway located on the slide front surface between the two hex socket cap screws.

6.2. After each use remove all swarf from the machine and thoroughly clean all sufaces. If coolant has been used ensure it is all cleaned from the machine and any collection tray is completely drained. Lightly oil all machined surfaces.

6.3. Clean and coat the leadscrews with oil weekly.

6.4. **CROSS SLIDE AND SADDLE ADJUSTMENT**

6.4.1. Adjust the accuracy of the cross feed and saddle on a monthly basis. Any wear or slack can be taken up by adjusting the position of the appropriate gib strip. To do this use a hex key and spanner as shown in fig.8. Adjust the cross feed using the adjusters marked 'A' in fig.9.

6.4.2. Loosen the locking nuts on all four adjusters and screw them in evenly using the same torque. The slide should now be held firmly. Test by trying to turn the handle but do not force it to turn.

6.4.3. Now back off each gib screw by a quarter of a turn and tighten the lock nuts. Test again by turning the handle. The movement should be even and smooth along its whole travel.

6.4.4. If the movement is too slack, screw all the adjusters in by one eighth of a turn until the correct adjustment is attained. Tighten the lock nuts.

6.4.5. Adjust the saddle in the same way using the three adjusters marked 'B' in fig.9.

6.5. CROSS SLIDE FEED HANDLE

6.5.1. If any stiffness occurs in the operation of the handle it is usually as a result of swarf lodging between the mating surfaces. Remove the handwheel by undoing the securing screw and pull off the calibrated collar taking care to retain the small spring plate which sits in a groove beneath the collar. Clean the parts and reassemble in the reverse order taking care to correctly reposition the spring.

WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.
Important: No Liability is accepted for incorrect use of this product.
Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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Original Language Version

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