

#### INSTALLATION

2.

Remove protective coating from all bright parts by applying a cloth soaked in paraffin, turpentine or other solvent.

#### WIRING DETAILS

The motor and control gear have been wired in before despatch. All that is required is to connect the power supply to the starter or isolator when fitted.

Points to note when connecting to power supply:-

1. Check that the voltage, phase and frequency correspond to those on the motor plate, also the correct coils and heaters are fitted to the starters.

2. It is important that the correct size of cable is used to give the correct voltage at the starter. Too light a cable will give a voltage drop at the starter and may damage the motor.

Check the main line fuses are of the correct capacity. See 3. list below. When an isolator is fitted, the fuses are of the correct capacity as received.

Connect the line leads to the appropriate terminals. See fig. 4\_ 2 for wiring diagram.

Check all connections are sound. 5.

Check the rotation of all the motors for the correct direction. 6. If this is incorrect reverse any two of the line lead connections.

# Four Head Machine

Voltage	Phase	HP	SWG Tinned	Amps
U		÷ .	Copper Wire	-
220	3	$7\frac{1}{2}/5/3$	17	65
		12/0/0		
380,420	3	72/5/3	18	45
550	3	7½/5/3 7½/5/3	19	38
	-	. 27 - 7 -		
Five Head Ma	chine			
Voltage	Phase	HP	SWG Tinned	Amps
			Copper Wire	11000
		_1	copper wire	
220	3	72/5/3/5	5 15	75
380, 420, 550	3	7½/5/3/8 7½/5/3/8	5 18	45 ·
	-			

#### FOUNDATION

See fig. 3 for foundation bolt positions and clearances required Foundation bolts are not supplied with the machine but available at a reasonable extra charge.

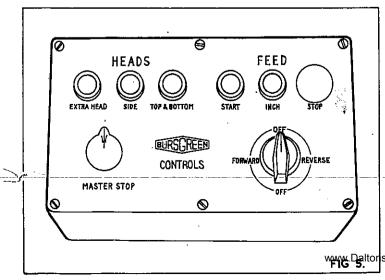
#### LUBRICATION

Lubrication should be carried out as shown in fig. 4. It is advisable to keep all bright parts covered with a thin film of oil to prevent rusting.

#### DUST EXHAUST SYSTEM

The size of all dust outlets are shown in fig.4.

We have developed with Messrs, Dallow Lambert of Leicester a special collector unit for this machine which represents abig advance on the usual practise of coupling each head independently into the main exhaust system. We shall be pleased to supply details and quotation by request.



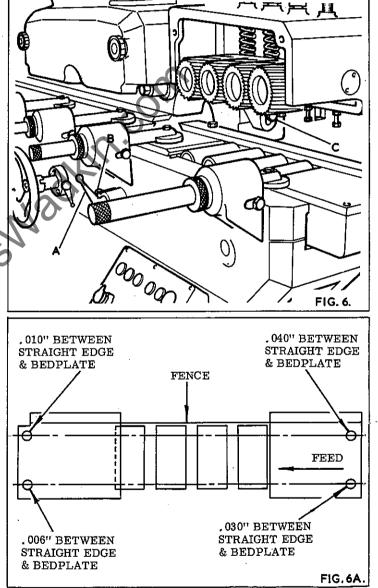
# OPERATING INSTRUCTIONS FOR ELECTRICAL CONTROLS

All the electrical controls are conveniently placed at the in-feed end of the machine. The panel contains the following control buttons.

Controls for the feed:- In addition to the normal start and stop push buttons an inch button and reversing switch are provided. The inch button operates the feed in either direction for the period it is depressed only.

Controls for the heads: - One motor drives both side heads and a second motor drives both horizontal heads. These and the motor for the extra head when supplied are controlled by separate push buttons. One push button controls both heads as indicated as one motor drives 2 heads.

A master button is provided which when operated stops the whole machine. This button is fitted with a "lock-off" feature and can be pushed in and half turned to lock the button in the "off" position, thus rendering all the controls inoperative. It should be used when leaving the machine or when attending to the cutterblocks to prevent accidental starting.

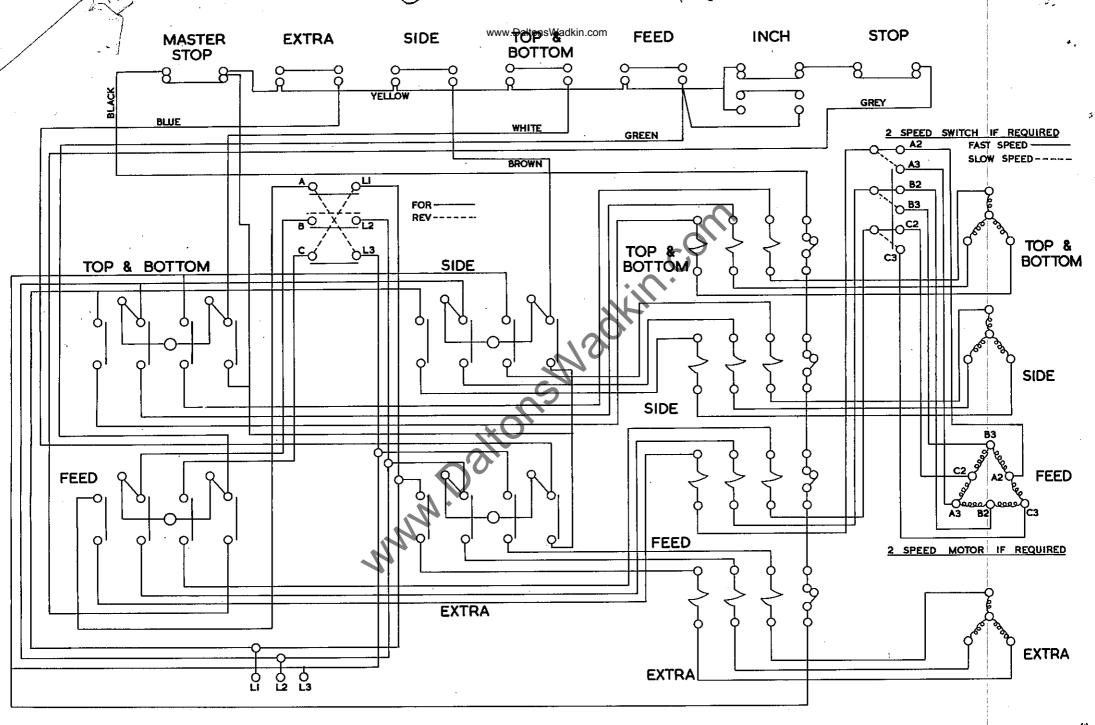


#### INFEED TABLE:

The infeed table is fitted with renewable bedplates and four ball bearing mounted rollers. The table has a total movement of 5/16" ( &mm) which is controlled by the lever "A", in fig. 6. The table should be set to give the amount of cut required on the bottom head and can be locked in any position by means of the hexagon head bolt "B".\_

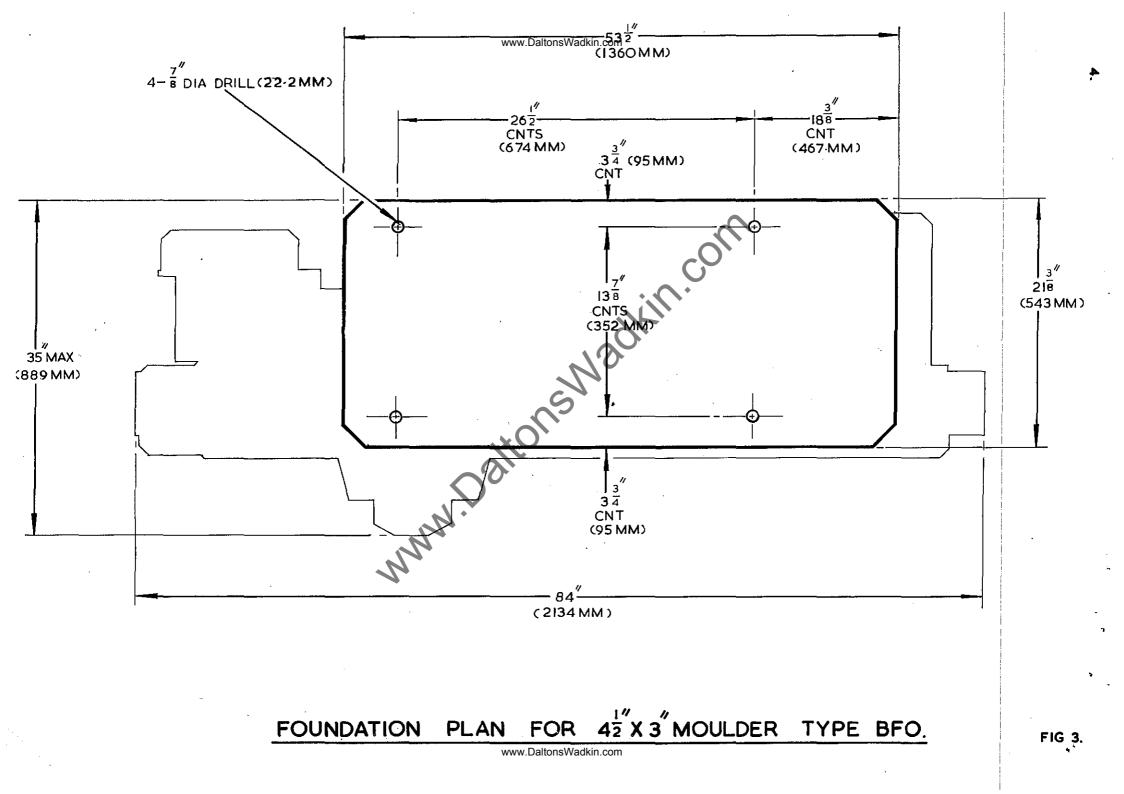
The ball bearing mounted rollers are set directly below the power driven feed rollers to reduce the friction on the feed to a minimum.

These rollers are set at works in accordance with dimensions shown in fig. 6(a). The rollers can be adjusted by means of the 6 grubscrews in the side plates carrying these rollers. Care Wanty Daltor SWanthind one taken to ensure that the rollers are set to the dimensions shown should any re-alignment be necessary.

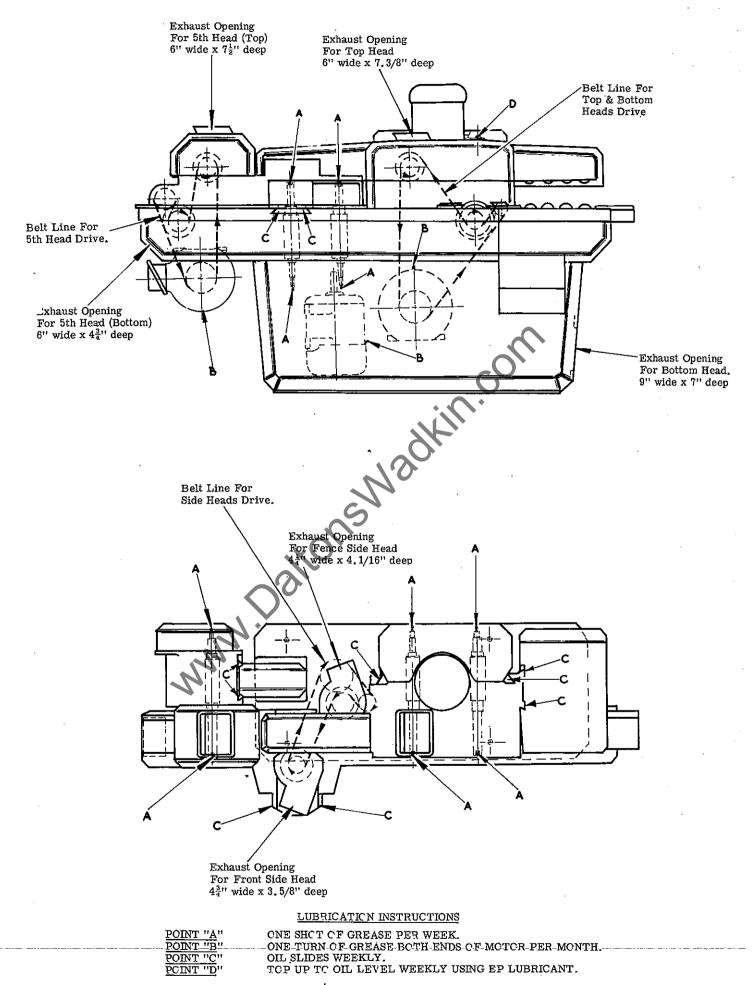


WIRING DIAGRAM SW3KINPHASE SUPPLY

FIG 2.



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<u>TYPE OF GREASE PECOMMENDED</u>:- SHELL ALVANIA 3. <u>TYPE OF CIL PECOMMENDED</u>, POINT C:- <u>CASTROL PERFECTO R.R.</u> <u>TYPE OF OIL RECOMMENDED</u>, POINT D:- <u>CASTROL "D" EP 140</u>. <u>www.DaltonsWadkin.com</u> 5.

#### FEED WORKS

The feed rollers are chain driven from a 3 speed gearbox giving feed speeds of 20,35 and 50ft/min (6, 10 and 15m /min) from a single speed motor, and feeds speeds of 10,  $17\frac{1}{2}$ , 20, 25, 35 and 50ft/min. from a two speed motor.

The gearbox is controlled by means of lever "A" in fig. 8 and the two speed motor, when fitted, is controlled by a rotary switch which is mounted direct to the motor.

The feed chain can be tensioned by means of the adjustable pulley, at rear of machine. Care should be taken when adjusting the tension that the feed-roller sprockets can move freely when timber is fed through the machine.

It should be noted that the feed rollers pivot from the rear of feed roller bracket and the correct feeding position for these rollers is when the rollers are parallel to the bed when timber is fed into the machine. This is shown in fig. 7 and, if not observed, will result in poor feeding. Pressure on the rollers can be increased or decreased by means of the knurled knob "A".

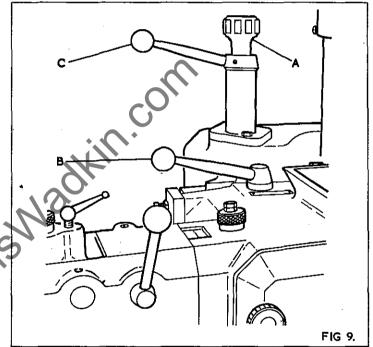
The whole feed roller assembly can be raised or lowered independently to the top head bracket by means of the adjusting screw "B", in fig. 8, to correspond to the cutting circle being used on the top head. Before adjusting the feed roller assembly loosen hexagon nut "C", in fig. 6 re-lock securely before feeding timber through the machine.

POSITION WHEN FEEDING-PARALLEL FREE POSITION 1⁄8" TÒ 3/16" :-- 3 MM TO 5 MM MMN, œ FIG 8. The drive to this head is by a flat belt from a  $7\frac{1}{2}HP$  motor which also drives the top head. The spindle end is  $1\frac{1}{4}$ " (30mm) diameter with a 3/8" (10mm) wide keyway and runs at a speed of 5,000rpm.

There are two blocks fitted to this spindle one 3" (76mm) square  $x 4\frac{3}{4}$ " (121mm) long and a thin circular cutterblock  $6\frac{1}{4}$ " (159mm) dia x 5/8" (16mm) thick which is fitted with tungsten carbide tipped cutters. The purpose of this block is to clean up the fence side of the stock on its passage through the machine, to the depth of the fence thus giving a register face to the stock. It is most important that this block is set to cut exactly in line with the fence directly after the bottom head. If the block is incorrectly set it will result in badly finished work and incorrect feeding.

The spindle is provided with fine vertical adjustment of 3/8"(10mm) by a worm and racked quadrant set into the spindle quill. The vertical adjustment is operated by handwheel "C", in fig. 8. Lateral adjustment of  $\frac{1}{2}"$  (13mm) is also provided to the head by means of lever "D". Both movements are locked simultaneously by means of lever "E".

The standard cutting circle diameter of the main cutterblock is 5" (127mm) and a maximum moulding diameter of  $5\frac{3}{4}$ " (146mm) can be obtained.



#### TOP HEAD

The drive to this head is by a flat belt from the same  $7\frac{1}{2}$ HP motor which drives the bottom head. The spindle end is  $1\frac{1}{4}$ !" (30mm) diameter with a 3/8" (10mm) wide keyway and runs at a speed of 5,000 rpm.

The block fitted to the spindle is 3" (76mm) square x  $4\frac{3}{4}$ " (121mm) long.

The spindle is provided with fine vertical adjustment of 3/8''(10mm) by means of a worm and racked quadrant set into the spindle quill. The vertical adjustment is operated by handwheel "A" in fig. 9. Lateral adjustment of  $\frac{1}{2}$ " (13mm) is also provided to the head by the lever "B". Both movements are locked simultaneously by means of lever "C".

The standard cutting circle of the cutterblock is 5" (127mm) and a maximum moulding diameter of 7" (178mm) can be obtained.

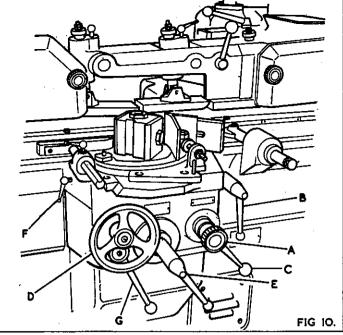
#### FENCE SIDE HEAD

The drive to this head is by a flat belt from a 5HP motor which also drives the front side head. The spindle end is  $1\frac{1}{4}$ " (30mm) diameter with a 3/8" (10mm) wide keyway and runs to a speed of 5,000rpm.

The block fitted to the spindle is 3" (76mm) square x  $3\frac{1}{4}$ " (83mm) long.

The spindle is provided with fine lateral adjustment of 3/8"(10mm) by means of a worm and racked quadrant set into the spindle quill. The lateral adjustment is operated by handwheel A in fig. 10. Vertical adjustment of  $\frac{1}{2}"$  (13mm) is also provided to the head by the lever "B". Both movements are locked simultaneously by means of lever "C".

FIG 8. The standard cutting circle of the cutterblock is 5" (127mm) and a maximum moulding diameter of  $6\frac{1}{4}$ " (159mm) can be obtained. www.DaltonsWadkin.com



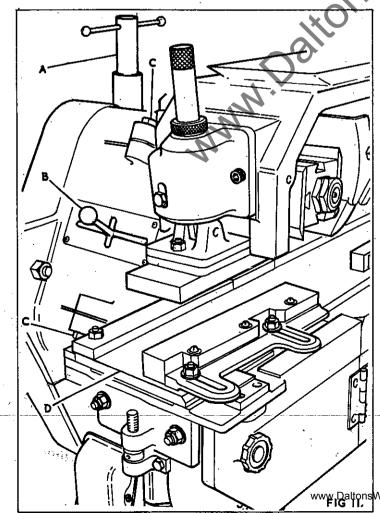
#### FRONT SIDE HEAD

The drive to this head is by a flat belt from the same 5HP motor which drives the bottom head. The spindle end is  $1\frac{1}{4}$ " (30mm) diameter with a 3/8" (10mm) wide keyway and runs at a speed of 5,000 rpm.

The block fitted to the spindle is 3" (76mm) square x  $3\frac{1}{4}$ " (83mm) long.

The spindle is provided with lateral adjustment of 4.3/8" (112mm) by means of screw through handwheel "D" in fig. 10 Vertical adjustment of  $\frac{1}{2}$ " (13mm) is also provided to the head by the lever "E". The lateral movement to this head is locked by means of two ball lever "F" and the vertical movement is locked by means of lever "G".

The standard cutting circle of the cutterblock is 5" (127mm) and a maximum moulding diameter of  $6\frac{1}{4}$ " (159mm) can be obtained.



An extra head is available as an optional extra and can either be used as a top or bottom head.

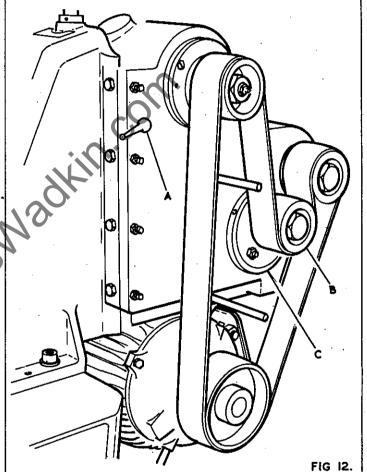
The drive to the head is by means of a flat belt from a 5HP motor. The spindle end is  $1\frac{1}{4}$ " (30mm) diameter with a 3/8" (10mm) wide keyway and runs at 5,000rpm.

The cutterblock fitted to the spindle is 3" (76mm) square x (121mm)long.

Vertical adjustment to the head is by the handle "A" in fig. 11 and lateral adjustment of  $\frac{1}{2}$ " (13mm) by the lever "B". The vertical movement of the head is locked in any position throughout its travel by means of the two ball lever screw "A" in fig. 12 and the lateral movement is locked by the hexagon nuts "C" in fig. 11 depending whether the head is being used as a top or bottom head.

The belt drive to this head is as shown, in fig. 12 and tension is provided by the jockey pulley "B" depending on the position of the head.

When the head is being used in the top position the standard cutting circle of the cutterblock is 5" (127mm) and a maximum moulding diameter of 7" (178mm) can be obtained.



#### INSTRUCTIONS FOR CHANGING POSITION OF HEAD

To reverse the position of the head the undermentioned procedure should be followed:-

Remove cutterblock, belt guard at rear of head assembly, 1. and the belt. Unlock hexagon head bolts "C" in fig. 11.

2. Ensure handle "B" is in centre of the vertical slot and move away from the main spindle assembly. The main spindle can be withdrawn at the rear of the machine.

3. Move handle "B" in the opposite direction to that in operation 2 and withdraw the dummy quill "C" in fig. 12 which also carries a jockey pulley.

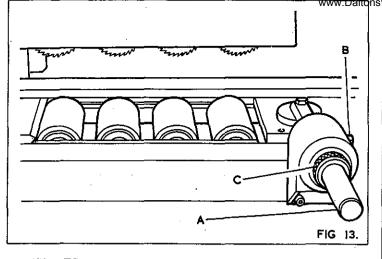
Replace the dummy quill "C" in the position which is not 4. being used and push up to the stop. Make sure that handle "B" in fig. 11 is in the vertical slot and away from the position in which the dummy quill is being fit.

Replace spindle assembly in the required position again 5. ensuring that handle "B" is away from the position in which the spindle assembly is being fit, also the location peg on the quill locates in the main casting.

Check the position of the bed plate "D" depending on whether the head is being used in the top or bottom position.

Replace belt, as shown in fig. 12 and re-tension belt by the 7. jokkeyopulley on the dummy quill "C" and then replace belt guard. 8. The cutter equipment can now be fitted to the spindle,





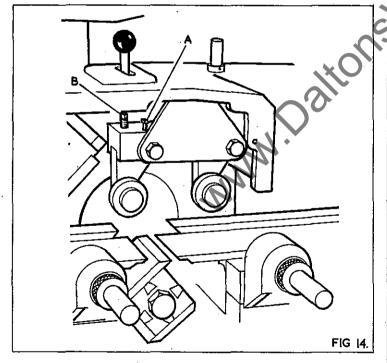
# PRESSURES

## First side pressure

The first side pressure is mounted on in-feed table before the feed works as shown in fig.13. The roller is mounted on the adjustment bar "A". To set roller loosen hexagon nut "B", and move forward until roller touches timber, remove timber and move roller forward a further  $\frac{1}{4}$ " (6mm) and lock nut "B". This should give the necessary pressure required for a good finish, but should further tension be required this should be done by adjusting the knurled knob "C". The spring loaded roller when correctly set will allow for a maximum variation in timber of 3/8" (10mm) without altering the setting of the pressure unit, except on maximum size stock.

#### Second Side pressure before Bottomhead

The second side pressure is identical to the first side pressure and is adjustable in exactly the same manner.



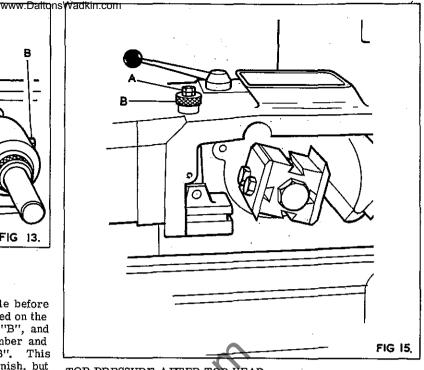
#### TOP PRESSURES OVER BOTTOM HEAD

Two spring loaded roller pressures straddle the bottom head. The pressures are mounted on circular bars secured to the main head casting which enables the pressure unit to be moved in or out to suit varying widths of timber. To slide pressure unit, loosen square head bolt "A" in fig. 14 and position where required and re-lock in position.

The spring pressure can be increased or decreased on each roller by adjusting the square head fine thread screw "B".

The rollers will yield for a maximum variation in timber of 3/8'' (10mm), except on maximum size stock.

# SIDE PRESSURE BEFORE FIRST TOP HEAD



# TOP PRESSURE AFTER TOP HEAD

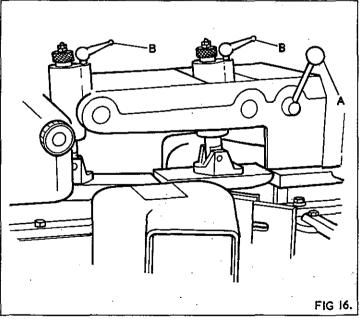
The pressure is mounted to the main top head casting and moves up and down with the top spindle unit. To adjust the position of the pressure pad adjust the nuts "A" in fig.15. To increase the spring pressure adjust knurled knob "B". The pressure shoe is fitted with an adjustable steel plate to

The pressure shoe is fitted with an adjustable steel plate to which wood packing pieces to suit the shape of the stock can be fixed.

A steel pressure shoe is available as an optional extra, if required, to replace the wood pressure shoe supplied.

# SIDE PRESSURE BEFORE FRONT SIDE HEAD

This side pressure is identical to the first side pressure and is adjustable in exactly the same manner.



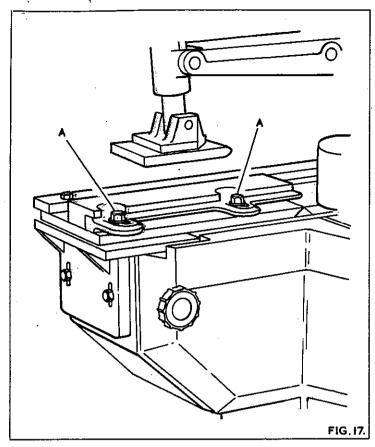
### PRESSURES BETWEEN SIDE HEADS

These pressures are mounted in a removable bracket, as shown in fig.16 for easy access to the side heads. To remove pressure bracket complete, loosen lever "A" and lift complete bracket clear.

The pressures\_can\_be\_positioned\_anywhere-across the full width of the machine. To position where required loosen the ball lever screws "B" and slide pressures as necessary. Re-lock with ball lever screws "B".

These pressures adjustments are identical to those of the pressure after the top head.

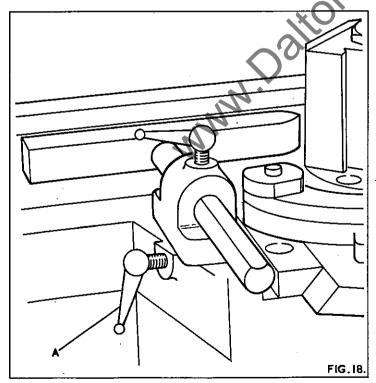
This side pressure is identical to the first side pressure panelons Steel pressure shoes are available as an optional extra, if is adjustable in exactly the same manner.



#### SIDE PRESSURE AFTER NEAR SIDE HEAD (4 Head Machine)

This pressure is of the solid type. The unit is slotted to give adjustment. To adjust the pressure loosen nuts "A", in Fig. 17 and position where required and relock nuts "A".

The front of this pressure plate is drilled to take a wood packing piece if required.



#### SIDE PRESSURE AFTER NEAR SIDE HEAD (5 Head Machine)

This pressure is the solid type. The unit slides on a bar and is locked in position by ball lever screw "A", in Fig. 18. The front of this pressure plate is drilled to take a wood packing piece

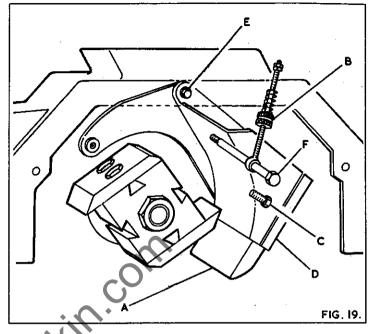
# SIDE PRESSURE AFTER EXTRA HEAD (5 Head Machine)

This is identical to the side pressure fitted after the near side head on a 4 head machine.

### TOP PRESSURE AFTER EXTRA HEAD (5 Head Machine)

#### This pressure is identical to the side pressures before the

side heads and is adjusted in exactly the same manner The pad on this pressure is drilled to take a wood pressure pad.



# TOP HEAD CHIPBREAKERS

Chipbreakers are fitted to the top head of the machine also to the extra head for use when in the top position. A hardwood toe piece "A" in Fig. 19 is fitted which is easily renewed.

Spring pressure can be applied to the shoe of the chipbreaker by means of the knurled knobs "B". The hardwood toe piece is adjustable independent to the chipbreaker bracket by means of the nut "C" and trapping plate "D".

To adjust the hardwood toe accomodate cutting cirles from 5" (127mm) to 7" (178mm) on the top head and up to 9" (229mm) on the extra head, loosen pivot bolt "E" and remove locking screw "F" position hardwood toe where required and relock in position.

A steel to piece is available as an optional extra, if required, to replace the hardwood to piece supplied.

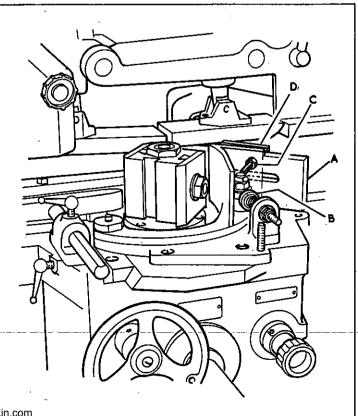


FIG. 20.

#### SIDE HEAD CHIPBREAKER

Shaping Cutters

slide carrying the head and so moves with the whole head unit. A hardwood toe piece "A" in fig. 20 is fitted which can easily be removed or renewed.

Spring pressure can be applied to the shoe of the chipbreaker by means of the knurled knobs "B". The hardwood toe piece is also adjustable independently to the chipbreaker bracket by means of nut "C" and trapping plate "D".

A steel toe piece is available as an optional extra, if required. to replace the hardwood toe piece supplied.

FENCES :- INFEED FENCE

This fence is secured to the infeed table bracket and has a total adjustment of  $\frac{3}{4}$ " (19mm). This fence is to be set parallel to the central fence and behind same by the required amount of cut to be take on the rebate block fitted to the first bottom head.

# CENTRAL FENCE

This fence is fitted to the main table between the bottom head and rear side head. This is fixed and should not be moved. It is most important that the rebate block cutters on the bottom head is exactly in line with this fence. If the block is not correctly set it will result in bad feeding and poor finish on the timber.

#### OUTFEED FENCE

This fence is secured to main table after the rear side head and has a total adjustment of  $\frac{1}{4}$ " (6mm). This fence is to be set parallel to the central fence and in front of same by the required amount of cut to be taken on the rear side head. It is most important that the rear side head cutting circle is in line with this fence.

#### BEDPLATES

Renewable steel bed-plates are fitted throughout the entire length of the machine.

#### SIDE HEADS

These bed plates are adjustable in relation to the cutterblock depending on the cutting circle being used and to ensure support of the timber as close to the cutting face as possible at all times.

#### IN-FEED TABLE

Bed plates are fitted to the in-feed table before and after the bottom anti-friction rollers.

#### MAIN TABLE

This bed plate is directly under the first top head. A lead insert is fitted to this bedplate directly below the top head to prevent damage to the cutter should they inadvertently touch the bedplate.

#### OUTFEED TABLE

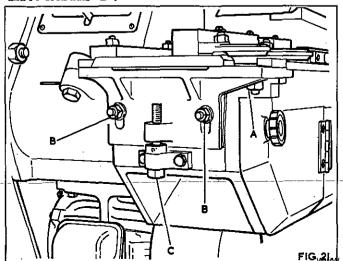
4 Head Machine :-

This bedplate goes from the front side head to the end of the outfeed table.

#### 5 Head Machine :-

The outfeed bedplate is split into 2 on this machine from the front side head to the extra head when used as a bottom head. The outfeed bedplate is adjustable to provide a gap in the bedplates to provide for the bottom head. To adjust bedplate loosen nut "A" in fig. 21 and position bedplate where required and re-lock nut "A".

The outfeed bedplate is fitted to an adjustable table which should be set in line with the minimum cutting circle when this head is used in the bottom position. To adjust the table loosen the hexagon nuts "B" and adjust screw "C" to the required position and re-lock nuts "B".



The chipbreaker fitted to the front side head is secured to they Daltons Watkin Water shaping cutters for any mould on any type of cutterhead or slotted collars it is important that the correct allowance is made to the depth of form of the cutter.

Fig. 22 shows the projections of the cutter to produce a simple rebate. For example using the 3" square cutterblock, to produce a  $\frac{3}{4}$ " (19mm) deep rebate the cutter must have a depth of form of 7/8" (22mm) this being due to the angle at which the cutter strikes the work on the line "A.A." When a shaped mould is required to be cut it is necessary to plot out the form of the cutter; this is shown in Fig. 23.

It is important when selecting blanks from which to make the cutter that they have the minimum necessary overhang. Also, a blank as near the shape and width as possible should be selected so that there will be less waste and less chance of overheating cutters when grinding.

The minimum cutting circle is fixed to give the necessary clearance for the bolt head when working with straight irons only. The cutting angle which is normally 35° is shown at "B" in .

Fig. 22 and the cutting angle at "C" this angle varies with the size of the cutterblock and the depth of the mould.

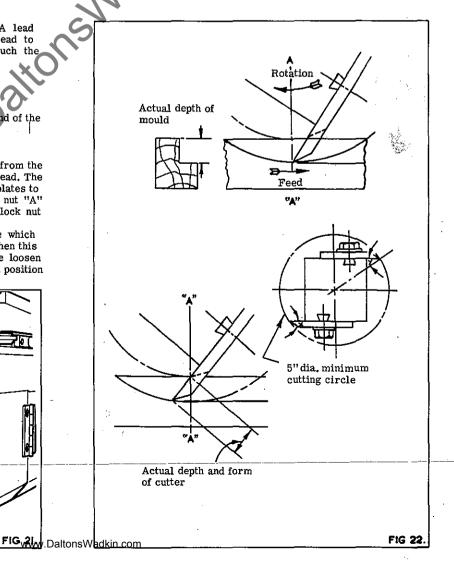
To obtain the correct cutter form for a shaped mould without using the moulders rule, it is necessary to plot this out as shown. First the square block and cutter at minimum cutting circle

are drawn out at "Y" in Fig. 23. The radius of the minimum cutting circle is drawn around to the centre line and divided up by the lines A, B, C, D and E, into either 1/16" (2mm) of 1/8" (3mm) according to the size and intricacy of the shape, these lines are then struck round from the centre line radially to the face of the cutter.

At "X" the lines A1, B1, C1, D1 and E1 are carried across as At "X" the lines AI, BI, CI, DI and EI are carried across as shown, also at "W" the mould is produced exactly as at "Z" and divided up the same, the lines 1, 2, 3, 4 and 5 which are from the points where lines A, B, C, etc. intersect the edge of the mould, are then drawn across to "X" thus E1 is cut by 1, D1 by 2 etc. The points of intersection are joined as shown thus giving the correct projected form of the cutter.

This takes up considerable time to do for each shape of cutters required, and can be very much reduced by using the moulders rule as shown in Fig. 24. This is a graph on which the form can be plotted and automatically gives the necessary allowance on the depth of form.

When the mould is to be a standard a template should be made to the projected form to which the cutters can be shaped when the job repeats. This will ensure uniformity on all future runs.



#### Moulders Rule

A permanent moulders rule can be made by the customer in sheet brass and aluminium and will then be handy to use in the workshop.

To plot the form of a cutter by use of the moulder's rule it is necessary to draw the full size shape of the mould on tracing paper and rule 1/8'' (3mm) squares as shown in Fig. 24 This is then placed alongside the moulders rule and projected across, this will give a series of dots which must be joined to give the form of the cutter. The cutter blank chosen must be wide enough to give at least 1/8'' (3mm) overlap beyond the edge of the mould.

#### Cutter Grinding

Cutters should be ground carefully avoiding any overheating as this will crack or soften cutters so that they will not stand up to the work.

A solution of soluble oil and water should be handy and the cutters should be held in this occasionally to cool them. This solution will also prevent rusting. Cutters should never be allowed to become discoluted during griding activity indicates another better

to become discoloured during grinding as this indicates overheating. The correct cutting angle of 35° for most cutters should be maintained as this gives the correct strength of the cutting edge. When hollow grinding is carried out, the angle of the cutting edge, should be kept as near 35° as possible, see Fig. 25 (A) and (B).

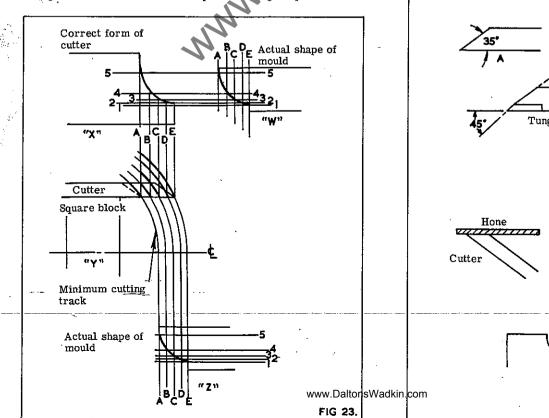
Hollow grinding is recommended whenever possible, as a keen cutting edge is more easily obtained when hand lapping. When lapping or stoning a flat ground cutter, a good edge is more difficult to obtain due to the tendency to rock the stone and leave a convex face.

Good open grain wheels should be used and should not be allowed to become glazed as this will cause excessive heat.

About 12" (304 mm) diameter wheels used down to 10" (254 mm) give the best radius for a hollow grind and an economic life 8" (204 mm) wheels used down to 6" (153 mm) leave the grind too hollow.

Tungsten carbide tipped cutters should be purchased to the shape required and re-ground only as necessary. In this case cutters should be relieved at 35° on the steel position and the tips finished with a diamond impregnated wheel at 45° as shown, using only very light cuts to prevent cracking. The diamond wheel should not be allowed to touch the steel backing as this clogs the wheel and causes excessive heat. Where available a copious flow of coolant should be used. They may be honed with a diamond hand lap, as the cutter becomes dull, until a regrind is necessary. A thin oil lubricant should be used on the hand lap.

All cutter blanks sent out by us are ground only, and, if used as chippers or rebate cutters, require honing with a 142 carborundum slip stone to produce at razor sharp edge before commencing to cut. This will ensure a good finish on the wood and an easy feed. Dull cutters give a poor, rough and plucked out finish, and make it difficult to feed the job past the cutters. Honing should be done by a reciprocating or rotary motion on the cutter, using a little paraffin to give "Bite" to the stone. The honing stone is a much finer grit than the grinding wheel and leaves a sharp keen edge. A number of honing stones of different shapes, e.g. round sticks or square sticks will be found helpful in honing shaped cutters.



ĺΟΦ 1/8 True True Moulders Rule Actual mould 6 8 Projected shape of cutter Projected I3, Projected FIG 24

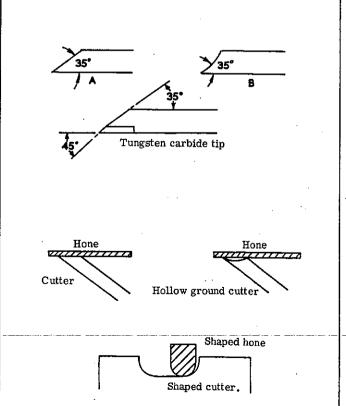
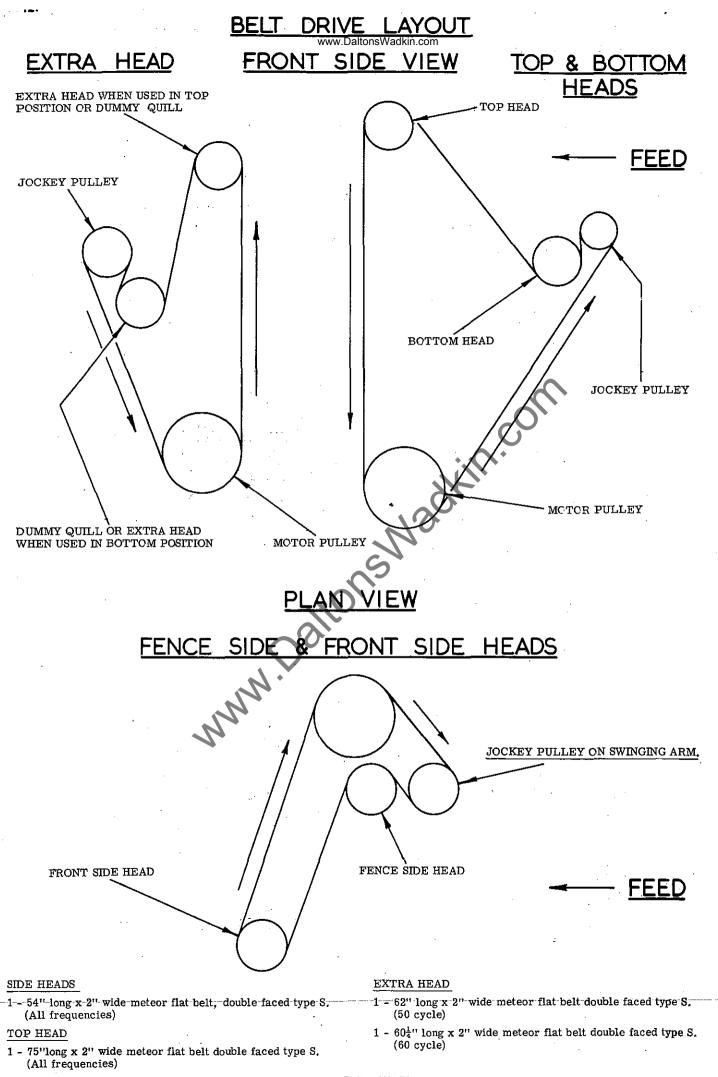
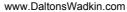
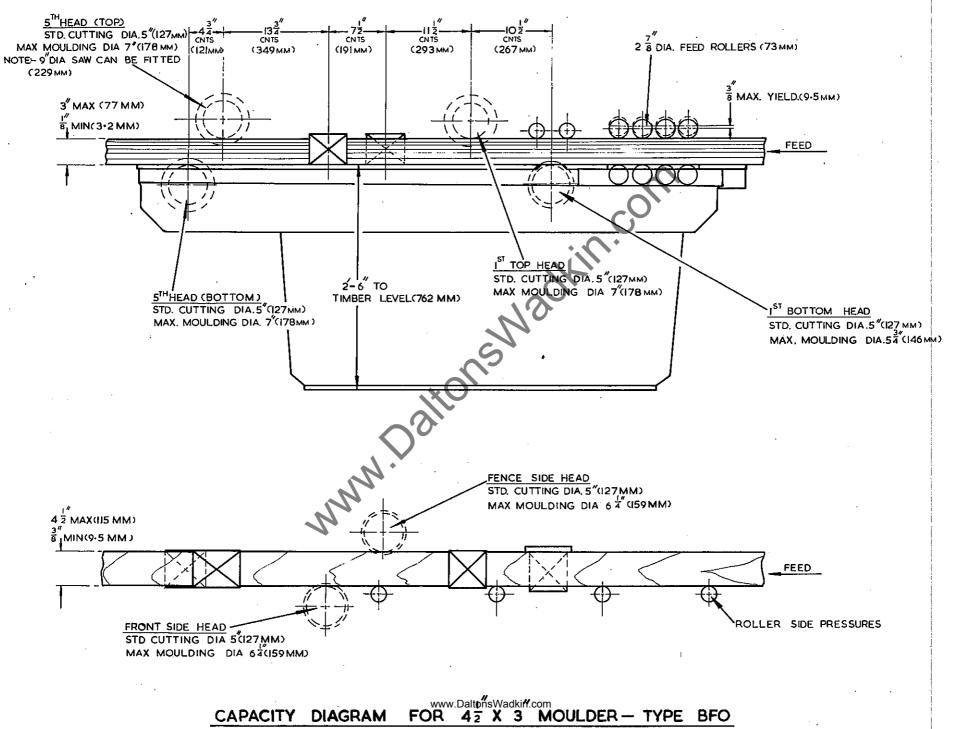


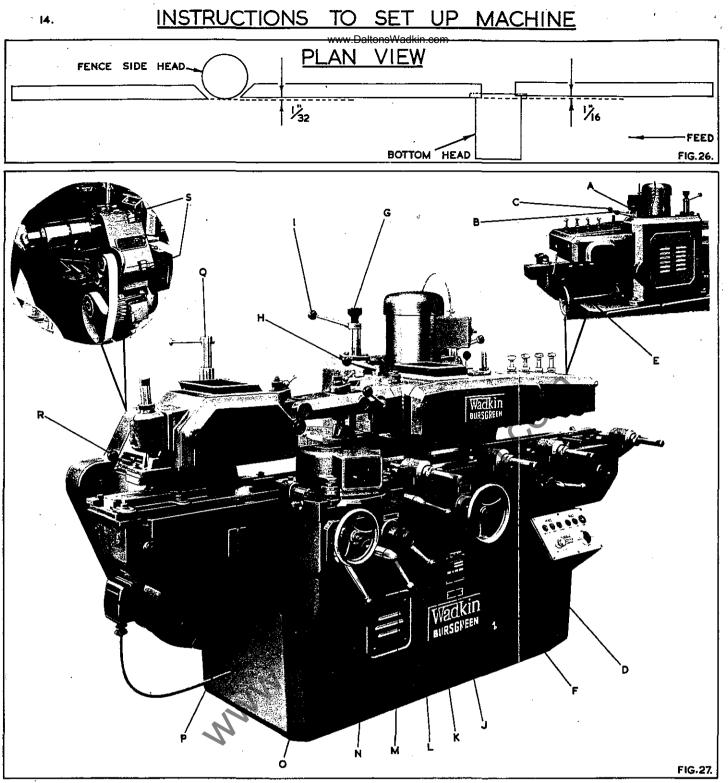
FIG 25.





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Upon leaving the works all machines have the infeed and outfeed fences pre-set to the centre fence which is non adjustable as illustrated in Fig. 26. These fences, when altering, must be kept parallel to the centre fence which can be accomplished by the use of a straight edge placed along the fences.

To set the machine to the shape and size of the mould required, the following procedure should be followed. This should be carried out by working along the machine starting at the first bottom head. Position the cutterblock vertically by means of the handwheel A in Fig. 27 until the minimum cutting circle is in line with the central bedplate. A rebate block is fitted to this head on the fence side to give a true feeding edge to the stock being worked. It is important that this block is in line to the centre fence so that good and regular feeding is obtained. Lateral movement is made to the head by the use of the handle C then both vertical and lateral adjustment can be locked simultaneously by means of the handle B.

Having set the bottom head, adjustment is now carried out on the top head. Vertical adjustment to this head is either by handwheel D or E which is to the rear of the infeed table. Handwheel D can be locked by means of the ball lever screw F. The head is mounted in an eccentric quill for fine adjustment and must be in its lowest position when working  $\frac{1}{2}$ " stock or less. This can be accomplished by use of the fine adjustment handwheel G. Lateral movement is by the lever H with all movements locked by the lever I.

Adjustment of the fence side head can now be undertaken. On they have lifted to the horizontal position and are driving this head the cutting edge of the knives can be set in line with the adjustment build according to the stock being worked. Vertical adjustment set correctly before commencing to make the first mould.

is by means of the lever J and lateral adjustment by the handwheel L. Both movements are locked simultaneously by lever K.

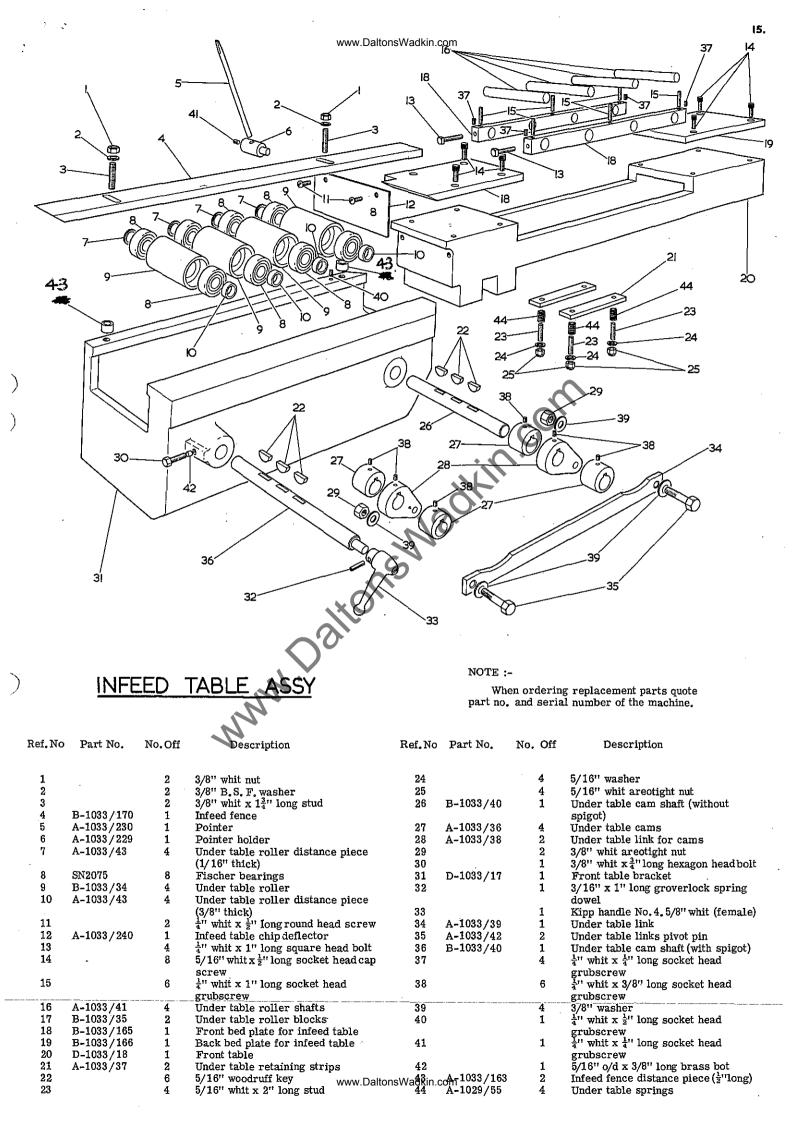
Similar procedure is then carried out on the front side head and this can now be set to the sample stock. Adjustment vertically is by lever M and locked by lever N. Lateral movement is made by the handwheel O which in turn is locked by the ball lever screw P.

On all machines an extra head can be fitted as an optional extra and, if fitted, can be used either in the top or bottom positions according to the stock to be worked. When using the head in the top position it can be set vertically to the sample stock by means of the handle Q and laterally by the handle R. Both adjustments are locked by the hexagon head nuts S. If the head is used in the bottom position the outfeed table must be adjusted to be in line with the cutting edge of the cutters. To adjust the head in the bottom position the same movements as in the top position apply.

Pressures are used along the machine to keep the stock being worked well up against either the fence or the bedplate. They must be set to suit the stock being worked as previously described.

Feed rollers should be adjusted to the correct pressure on the stock so as to give a smooth feeding action throughout the machine. This also has been previously described.

Before commencing to start the machine check carefully to ensure that all the cutters are tight and secure in their respective cutterblocks. Inch stock through the feed rollers checking that they have lifted to the horizontal position and are driving over the full face of the stock. Check that the pressures and fences are all set correctly before commencing to make the first mould.



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FEED	WORKS	ASSY

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			ORKS ASSY	$\sim$			; replacement parts quote I number of the machine.
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<pre>?ef.No.</pre>	. Part No.	No. Off	f Description	Ref. No.	Part No.	No. Off	Description
	- -	_	-				-
50	A 1000 (0E0	2	3/8" whit nut	79	A-1033/235	1	Feed roller sprocket (large)
51	A-1033/259	2	Collars for feed roller bracket R & F screw	80	В-1033/65	1	Feed roller pivot block (with 5/16" tapped hole)
52	A-1033/110	1	Feed roller bracket R & F screw	81		8	$3/16''$ whit x $1\frac{1}{2}''$ long groverlock
53		2	$3/16" \ge 1\frac{1}{4}"$ groverlock spring	•1		Ū	spring dowel
			dowel	82	A-1033/261	8	Collar for feed roller
54	-	2	3/8" whit x 5" long stud	83		1	$5/16''$ whit x $\frac{1}{2}''$ long socket head
55	C-1033/5	1	Chain cover				grubscrew
56 57	A-1033/107	3 3	Feed roller pivot thrust screw $3/8$ " whit x $1\frac{1}{4}$ " long hexagon head	84 85		4	$\frac{1}{4}$ "x 2" long feather key
91		3	bolt	69		4	$3/8''$ whit x $\frac{1}{2}''$ long hexagon head bolts
58		2	$\frac{1}{4}$ " whit x $1\frac{1}{4}$ " long square headbolt	86	в-1033/80	4	Feed roller pressure block
59		2	$\frac{1}{4}$ " whit locknut	87		16	$1''i/d \ge 1\frac{1}{4}''o/d \ge 1''$ long oilite bush
60	D-1033/21	1	Feed roller bracket	88	B-1033/101	2 Off	Feed roller spiral fluted only
61	A-1810/81	4	Feed roller pressure spring	89	A-1002/40	4	$1\frac{1}{4}$ " dia feed roller retaining washer
69	A 1010 /110	A .	adjusting screw	90		4	3/8" whit x 1" long hexagon head
62	A-1810/112	4	Feed roller pressure spring adjusting lock nut	91		4	bolts 3/8" dia steel ball
63	A-1033/9	4	Seatings for feed roller springs	91 92 ·	B-1033/65	ŝ	Feed roller pivot block
64	A-1033/300	4	Feed roller springs	93	D-1000/00	2	$\frac{1}{2}$ " spring washer
65	C-1033/206	1	Door for feed roller bracket	94		2	5/16" whit x 3/8" long socket head
66	-	2	3/8" whit x 2" long hexagon head				grubscrew
<u> </u>			bolts	95		1	5/16" whit x 5/16" long socket head
67 60	A-1033/105	1	Feed roller bracket R & F nut				grubscrew
68 69	B-1033/102 B-1033/294	1 6	Feed roller bracket vee strip Feed roller sprocket (19teeth)	96 97	A 1099 /000	4	$\frac{1}{4}$ " whit x $\frac{3}{4}$ " long hexagon head bolt
70	B-1033/294 B-1033/293	1	Feed roller distance piece (7/8"long)	មរ	A-1033/280	4	1.1/8" dia feed roller retaining washer
71	2 4000/ 400	2	$\frac{1}{4}$ " x $\frac{3}{4}$ " long feather key	98		2 Off	Renolds chain:- 39 links + cranked
72		2	$\frac{1}{2}$ " whit x $1\frac{1}{4}$ " long socket head			- •	link + 2 split pins
			capscrew			1 Off	Renolds chain :- 51 links + cranked
73	A-1033/108	1	Feed roller pivot bar				link + 2 split pins
74 75	B_1022 /000	1	$\frac{1}{4}$ " x $1\frac{3}{4}$ " long feather key	00	ד. 1090 /101		Renolds chain :- 63 links + split pin
76	B-1033/293	1 1	Feed roller distance piece $(1\frac{3}{4})$ long $\frac{1}{4}$ x $2\frac{1}{2}$ long feather key	99	B-1033/101	2 Off	Feed roller spiral fluted and grooved
77	B-1033/293	1	Feed roller distance piece (2.5/8"	100		1	$\frac{1}{2}$ " whit x $1\frac{1}{2}$ " long hexagon head bolt
	, -		long)	101		1	$\frac{1}{2}$ " whit washer
78	B-1033/100	4	Feed roller spindle (state which one				
			required www.Da	ltonsWadk	in.com		

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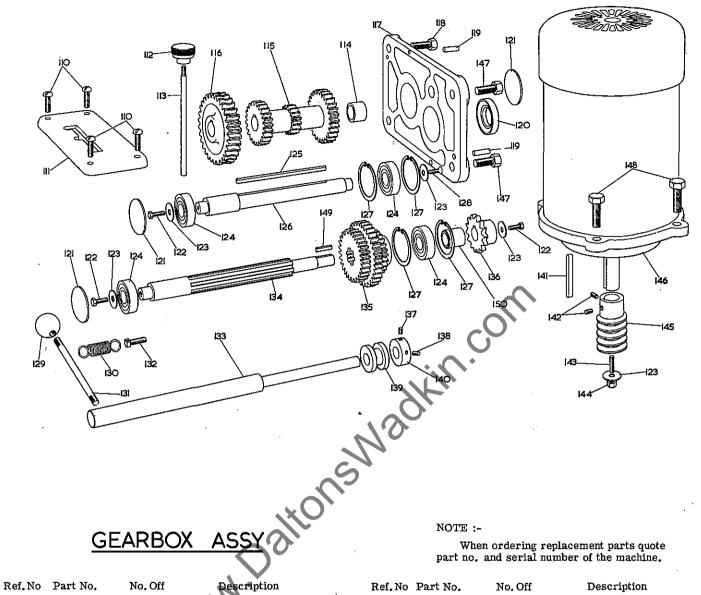
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Rel, NO	Part No.	NO. OII	Description	Rei.No	Part No.	NO, OH	Description
110		4	$\frac{1}{4}$ " whit x 1" long round head screw	135	B-1033/23	1	Output gear train
111	B-1033/27	1	Faceplate for gear change	136	A " /232	1	Gearbox sprocket
112	A- " /185	1	Handle for gearbox oil lever dip	137		1	$\frac{1}{4}$ " whit x 3/8" long socket head
	·		stick				grubscrew
113	A- " /185	1	Gear oil lever dip stick	138		1	$\frac{1}{4}$ " whit x $\frac{1}{2}$ " socket head grubscrew
114	A- " /28	1	Input shaft distance piece	139	A-1033/30	1	Gear change bush
115	B- " /22	1	Input gear chain	140	A-1033/31	1	Gear change collar
116	B- " /73	1	Wormwheel for 3 phase motor	141		1	3/16" x 2" long feather key
117	C- " /8	1	Gearbox Cover	142		2	$\frac{1}{4}$ " whit x $\frac{1}{4}$ " long socket head
118		2	$3/8$ " whit x $1\frac{1}{4}$ " long hexagon head				grubscrew
			Bolt	143		1	$\frac{1}{4}$ " whit x $1\frac{1}{4}$ " long stud
119		2	$\frac{1}{4}$ " dia x 1" long fluted dowel	144		1	$\frac{1}{4}$ whit areotight nut
120	W18510239R4	1	Weston Oil Seal	145	B-1033/73	1	Worm for 3 phase motor
121		3	2" dia welsh washer	146		1	Brook motor, 3HP, 3000 rpm
122		3	$\frac{1}{4}$ " whit x 1" long hexagon head bolt				T.E.F.C.Frame M.66B, with four
123	A-1033/280	4	Washer for gearbox shaft			_	lug endshield (50 cycles, 1 speed)
124		4	Hoffman 120 bearing			1	Brook motor, 3HP, 3600 rpm
125	A-1033/274	1	Key for gearbox input shaft				T.E.F.C. Frame M66B, with four
126	B-"/24	1	Input shaft			_	lug endshield (60 cycle, 1 speed)
127		4	47mm internal circlip			1	Brook motor, 2HP/1HP, 3000/
128		1	$\frac{1}{4}$ " whit x 1" long socket head counter				1500 rpm T.E.F.C.Frame M66B
	•		sunk screw				with four lug endshield (50 cycle
129		1	$1\frac{1}{4}$ dia Plastic Ball, 3/8" whit				2 speed)
		_	without insert			1	Brook motor, 3HP, 3600/1800 rpm
130	A-1029/67		Gearchange lever spring				T.E.F.C. Frame M66B, with four
131	A-1002/90A	1	Gearchange lever handle	140		0	lug endshield (60 cycle, 2 speed)
132	A-1029/68	1	Gearchange lever spring holder bolt	147		2	$3/8"$ whit x $1\frac{3}{4}"$ long hexagon head
133	B-1033/26	1	Gear Lever	140		4	bolt $\frac{3}{4}$ " whit x 1" long hexagon head bolt
134	B-1033/25	1	Output shaft	148		.4	$\frac{1}{4}$ . whith X T. Tonk herefold head point

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B-1033/11

C-1033/10

B-1033/15

A-1033/59

B-1033/12

B-1033/13

A-1033/186

A-1033/262

A-1033/186

A-1033/262

A-1033/187

A-1033 / 263

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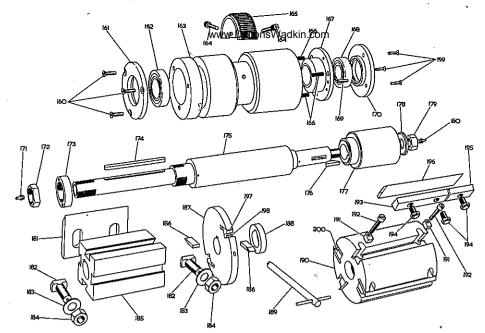
A-1033/279

C-1033/67

B-1033/14

A-1033/58

18 <sup>- 1</sup> - 1952



# SPINDLE ASSEMBLY

for)

allenscrew

(R.H.thread)

(R. H. thread)

(L.H. thread)

head)

head)

extra head

Spindle washer

Extra head "ditto"

 $\frac{3}{4}$ " whit R. H. nut (1 per front side head, 1 per bottom head)

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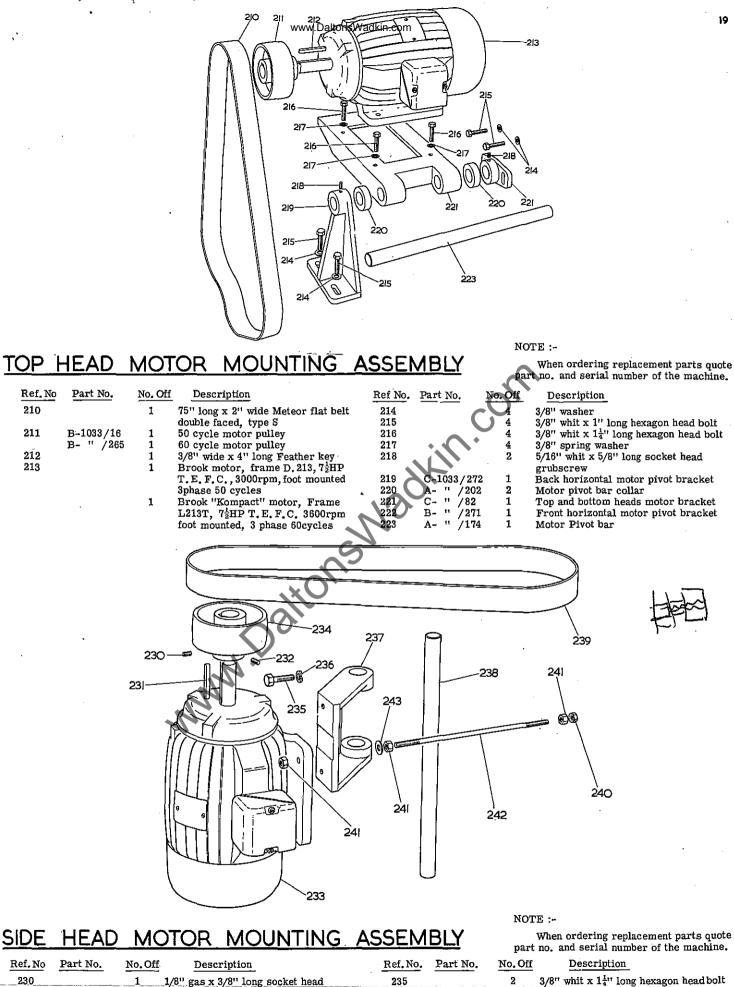
#### NOTE :-

When ordering replacement parts quote part no. and serial number of the machine. <sup>3</sup>/<sub>4</sub>" whit L. H. nut (1 per fence side head, 1 per top head)
<sup>3</sup>/<sub>4</sub>" whit L. H. nut (Extra head)
1/8" gas straight grease nipple (horizontal heads) 5/16" whit x 1" long CSK head screw 2 Extra head "ditto" Thrust end dust cap 1 Extra head "ditto" 180 2 Hoffman 145 bearing Extra head "ditto" Extra head "ditto" Bearing housing (state head required 1/8" gas angled grease nipple (vertical heads) Standard knives for square blocks Extra head "ditto" 181 B-S-165 2 pair 3/8" whit x 3/1" long socket head (horizontal heads 43" long) 1 pair Extra head "ditto" Standard knives for square blocks (vertical heads,  $3\frac{1}{4}$ " long) Square cutterblock bolt Extra head "ditto" Racked quadrant for bearing housing 2 pair \* B-S-16 (state head required for) Springs for spindle end float Extra head "ditto" A-1033/224 182 16 Float end inside dust cap 183 1033/226 16 Square cutterblock washer Extra head "ditto" Hoffman 135 bearing Extra head "ditto"  $3/16" \ge 1\frac{1}{4}"$  groverlock dowel Extra head "ditto" Extra head "ditto" 4 184 Square cutterblock nut Extra head "ditto" A-1033/225 16 4 185 B-1033/207 B-1033/210 A-1033/222  $\hat{2}$ Standard horizontal cutterblock 2 Standard vertical cutterblock Float end outside dust cap Extra head "ditto" Rebate block cutter 186 2 1 1 Rebate cutterblock for bottom head Bottom head spindle distance piece 187 A-1033/216 1/8" gas straight grease nipple Extra head "ditto" 188 A-1033/76 Solution head "spinle distance piece 5/8" long Top head "ditto"  $1\frac{1}{4}"$  long Extra head "ditto"  $1\frac{1}{4}"$  long Bottom head spindle distance piece Top head cutterblock locknt 1 Metric top head cutterblock locknut A-1033/228 1 (metric spindle machine) Side head spindle distance piece Bottom head cutterblock locknut A-1033/278 2 (L. H. thread) Metric Bottom head cutterblock locknut (L. H. thread) Front side head cutterblock locknut (R. H. thread) Metric front  $1\frac{1}{4}$ " long 189 1 Adjusting spanner for circular cutterblock cutters (special) 2 Horizontal circular cutterblock 190 C-1033/214 (special) Metric front side head cutterblock Extra head "ditto" 1 locknut (R.H. thread) 2 Vertical circular cutterblock C-1033/215 Fence side head cutterblock locknut (special) No. 2 adjusting nuts (special) Extra head "ditto" No. 2 adjusting screws (special) Extra head "ditto" 191 16 Metric fence side head cutterblock locknut (L. H. thread) Cutterblock locknut (R. H. thread) 16 192 extra head (state spindle dia) 193 A-1033/217 4  $3\frac{1}{4}$ " long horizontal head circular Spindle locknut (L. H. thread) Cutterblock wedges (special (1 per front side head, 1 per bottom 8 Vertical head "ditto" Extra head "ditto" Spindle locknut (R.H.thread) 194 A-1033/221 36 <sup>1</sup>/<sub>2</sub>" whit circular cutterblock wedge screw (special) Extra head "ditto" (1 per fence side head, 1 per top 10 Spindle locknut (R. H. thread) (1 per 195 A-1033/218 1<sup>1</sup>/<sub>2</sub>" long circular cutterblock 4 wedges (special) Key for horizontal heads 2 Extra head "ditto" Extra head "ditto" Key for vertical heads 196 A-S-164 4  $4\frac{3}{4}$ " long knives for horizontal heads Extra head "ditto"  $3\frac{1}{4}$ " long knives for vertical heads circular cutterblock (special) Cutterhead spindle (state spindle end dia and head required for) 2 4 Extra head "ditto" 5/16" woodruff key Extra head "ditto" 197 A-1033/219 Wedge for rebate block 2 5/16" BSF wedge screws 4" whit x 5/8" long CSK head screw Extra head "ditto" 198 A=1033 / 220 Spindle pulley Extra head "ditto" 199 12 3  $4\frac{3}{4}$ " long horizontal circular cutterblock wedges (special) 200 A-1033/233 4

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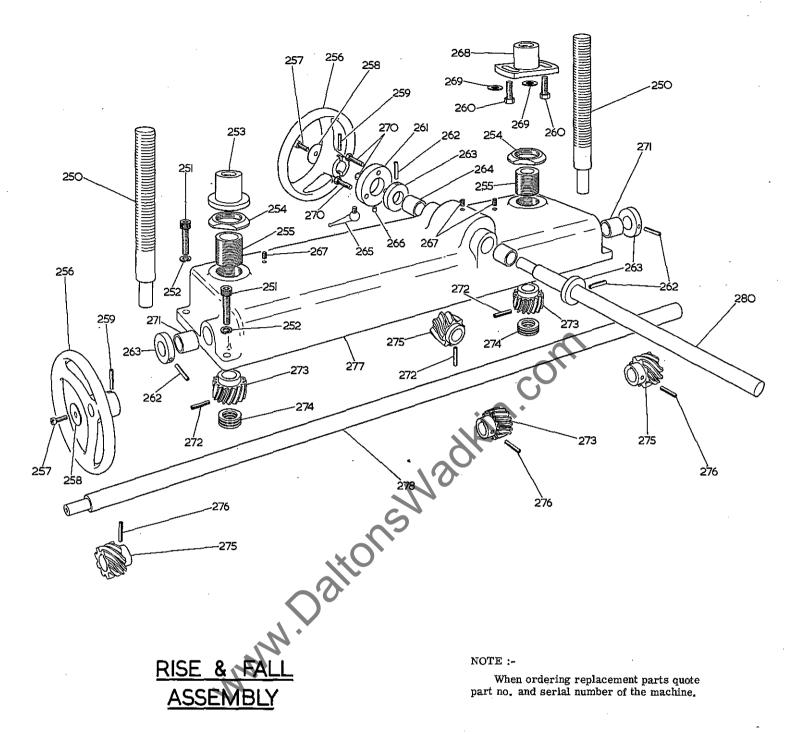
Extra head "ditto"



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Ref. No	Part No.	No. Off	Description	Ref. No.	Part No.	No.Off	Description
23_0		1	1/8" gas x 3/8" long socket head	235		2	$3/8''$ whit x $1\frac{1}{4}''$ long hexagon head bol
			grubscrew	236		2	3/8" dia washer
231		1	5/16" whit x 3" long Feather key	237	B-1033/81	1	Side head motor bracket
232		1	$1/8''$ gas x $\frac{1}{2}''$ long socket head	238	A-1033/174	1	Motor pivot bar
			grubscrew	239	,	1	54" long x 2" wide Meteor flat belt,
233		1	Brook motor Frame D. 184, 5HP				double faced, type S
		_	3,000rpm T. E. F. C. foot mounted	240		1	3/8" whit locknut
			3 phone 50 analo			3	3/8" whit nut
		1	Brook "Kompact" motor Frame	/adkin.ggm	A-1033/175	1	Side heads motor locking stud
·		-	LS184T, 5HP 3, 600rpm, T.E.F.C.	243	A-1002/40	1	Washer

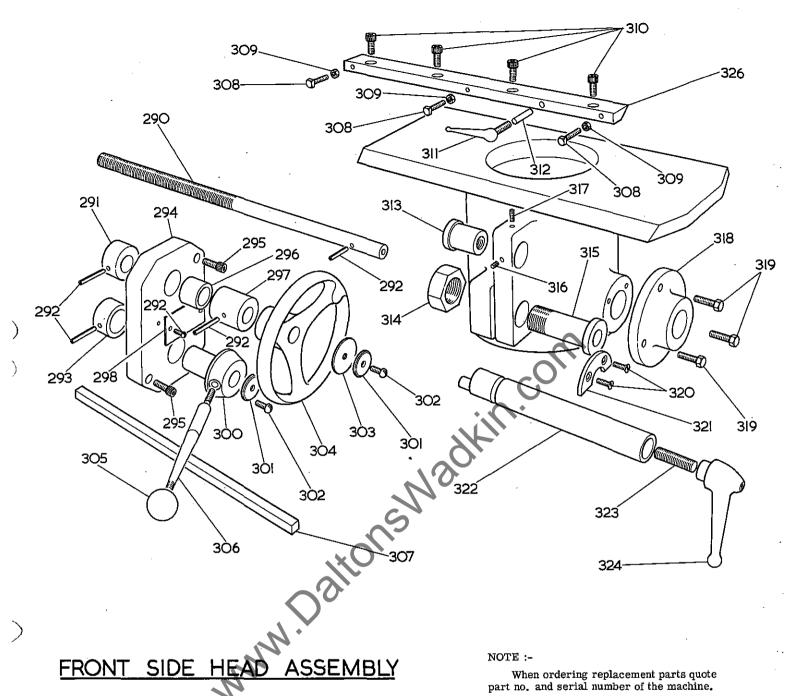
Foot mounted 3phase 60 cycles

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Ref No.	Part No.	No.Off.	Description	<u>Ref No</u>	Part No.	No. Off.	Description.
250	B-1033/52	2	Top head R & F screw	266		1	5/16'' x 3/8'' long brass bot
251		4	$\frac{1}{2}$ " whit x $1\frac{1}{2}$ " long socket head capscrew	267		3	1/8" gas x 3/8" long socket head grubscrew
252		4	$\frac{1}{2}$ " whit spring washer	268	B~1033/20	1	Main bracket R & F nut (flanged)
253	B-1033/19	1	Main bracket R & F nut (plain)	269	•	2	3/8" whit washer
254	A~1033/53	2	Locknut for R.& F screw adjuster	270		3	5/16" whit x 1" long hexagon head bolts
255	A-1033/164	2	Top head R & F adjusting screw	271		4	$1\frac{1}{4}$ " o/d x 1" i/d x $1\frac{1}{2}$ " long oilite bush
256	C-1030/14	2	$7\frac{1}{2}$ dia, Dished handwheel (for R & F)	272		3	$\frac{1}{4}$ " x $1\frac{3}{4}$ " long groverlok dowel
257	•	2	$5/16"$ whit x $\frac{3}{4}"$ long cheese head screw	273	A-1033/205	3	Spiral gear for main R & F
258	A-1031/70	2.	Washer	274	W.1.B.	2	Hoffmann thrust race
259		2	3/16" x 1 <sup>1</sup> / <sub>2</sub> " long groverlok dowel	275	A-1033/204	3	Spiral pinion for main R & F
260		2	3/8" whit x 1" long hexagon head bolts	276	·	3	$\frac{1}{4}$ " x $1\frac{1}{2}$ " long groverlok dowel
261	_A-1033/93-	1	- Outer-bearing for-top-head-R-&-Fshaft-	277	D-1033/1	1	R & F bracket
262		4	$3/16'' \ge 1\frac{3}{4}''$ long groverlok dowel	278	B-1033/50	1	Top head R & F shaft
263	A-1033/258	4	Collar for R & F handwheel shaft	279	,	1	$1\frac{1}{4}$ " o/d x 1" i/d x 1" long oilite bush
264		1	1 <sup>1</sup> / <sub>4</sub> " o/d x 1" i/d x 2" long oilite bush	. 280	B-1033/51	1	Top head R & F handwheel shaft
265		1	3/8" whit short thread ball lever screw		·		-

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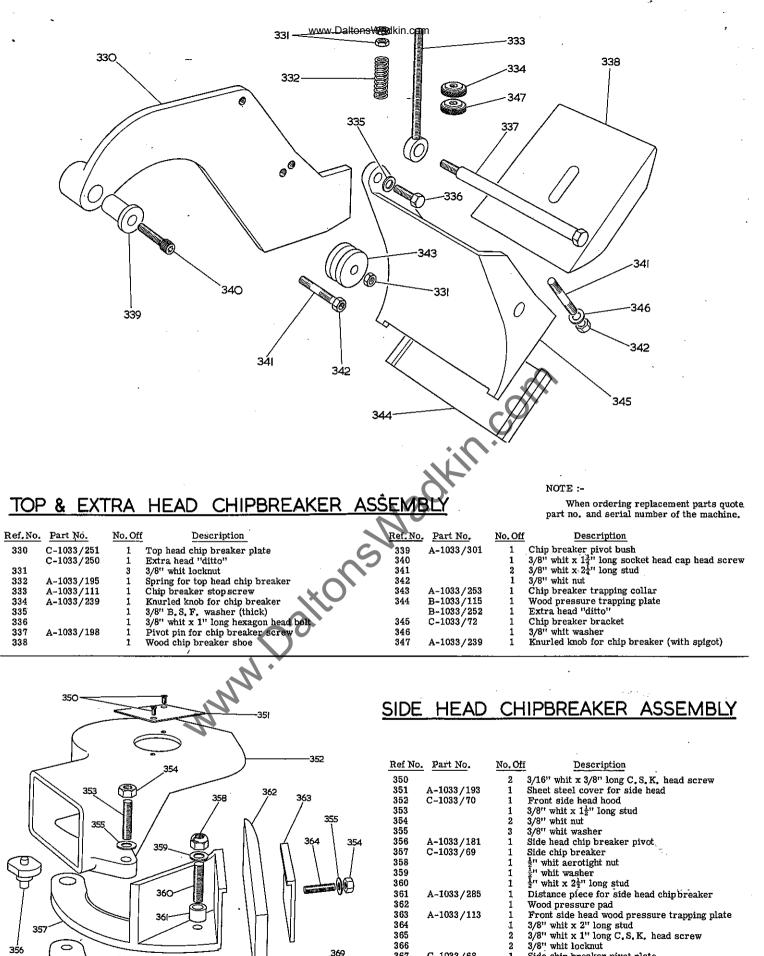


Ref.No.	Part No.	No. Off	Description	Ref.No	Part No.	No. Off	Description
290	B-1033/96	1	Front side head adjusting screw	309	*	3	$\frac{1}{4}$ " whit locknuts
291	A-1033/259	1	Collar for side head adjustment screw	310		4	$3/8"$ whit $x \frac{3}{4}"$ long socket head cap
292		4	$3/16'' \ge 1\frac{1}{4}''$ long groverlok spring dowel				screw
293	A-1033/261	1	Collar for front side head lock	311	B-S-1-B	1	3/8" whit ball lever screw
294	B-1033/56	1	Front side head cover plate	312		1	$5/16''$ dia x $2\frac{3}{4}''$ long brass bot
295	·	2	5/16" whit x 1" long socket head cap	313	A-1031/58	1	Nut for front side head
			screw		A-1033/106	1	Front side head locking nut
296		1	$\frac{3}{4}$ " i/dia x 1" o/dia x $\frac{3}{4}$ " long oilite bush	315	B-1033/98	1	Front side head locking screw
297	A <b>-10</b> 33/95	1	Spacing collar for front head adjustment	t 316		1	$\frac{1}{4}$ " whit x $\frac{1}{4}$ " long socket head grubscrew
298	C-SK-528/D	1	Instruction plate for front side head	317		1	$\frac{1}{4}$ " whit x $\frac{1}{2}$ " long socket head grubscrew
299	Z4	2	4" self tapping screw	318	B-1033/79	1	Bearing for front side head R & F
300	B-1033/99	1	Front side head locking collar				eccentric
301	A-1033/280	2	Washer for front side head lock	319		3	5/16" whit x 1" long hexagon head bolts
302		2	$\frac{1}{4}$ " whit x $\frac{1}{2}$ " long round head screw	320		2	$\frac{1}{4}$ " whit x $\frac{1}{2}$ " long CSK head screw
3_03	C-SK-528/M	1	Instruction plate for front side head	321	A-1033/109	1	Front side head eccentric pinkeep plate
7 14	en en		handwheel	322	A-1033/103	1	Front side head R & F eccentric
304	B-1033/92	1	Dished handwheel for front side head	3 23	A-1033/268	1	Stud for front side head eccentric
305		1	$1\frac{1}{4}$ " dia plastic ball, 3/8" whit	324		1	No.4 kipp handle, 5/8" whit female
306	B-1027/46	1	Locking handle (5" long)	325	D-1033/6	1	Front side head housing
307	A-1033/96	1	Front side head locking bar	326	A-1033/184	1	Front side head gib strip.
308		3	$\frac{1}{4}$ " whit x $\frac{3}{4}$ " long square head bolts				

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1. 1. A. C. W.

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C-1033/68 Side chip breaker pivot plate Chip breaker stop screw 1

A-1033/111

Knurled knob for chip breaker

A-1033/239 A-1033/239 A-1033/196 Knurled knob for chip breaker (with spigot) Pressure sping for side head chip breaker

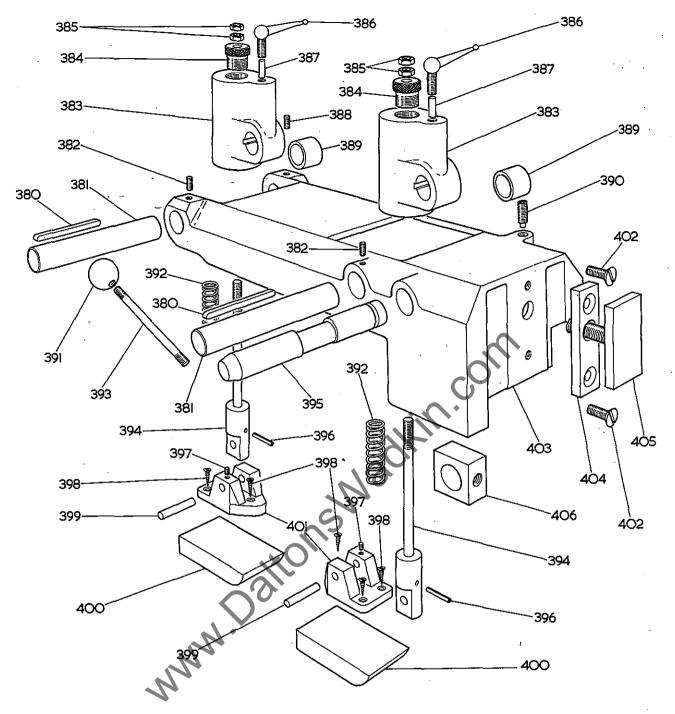
NOTE :-

When ordering replacement parts quote part no. and serial number of the machine.

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# PRESSURES OVER SIDE HEAD ASSEMBLY

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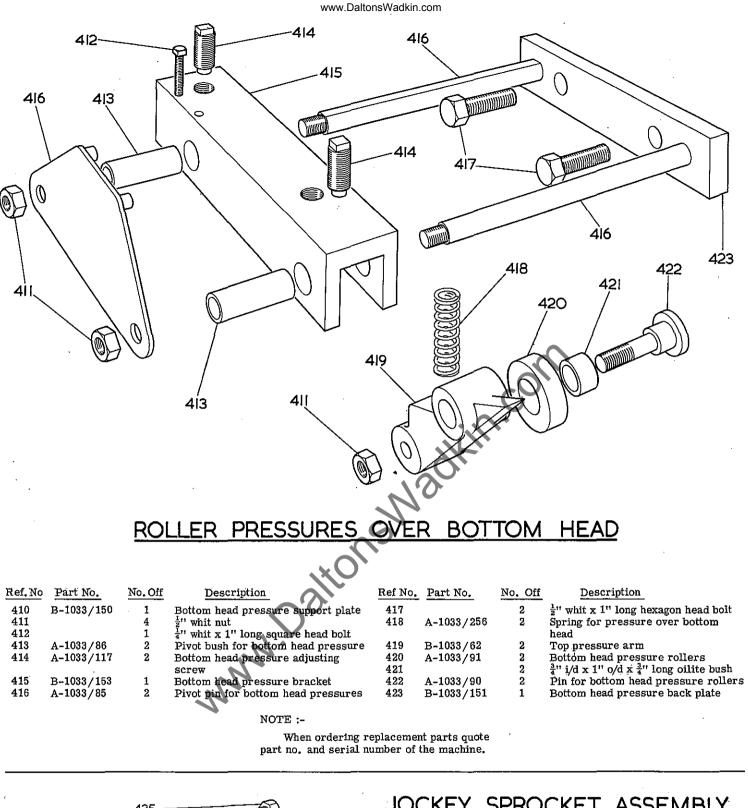
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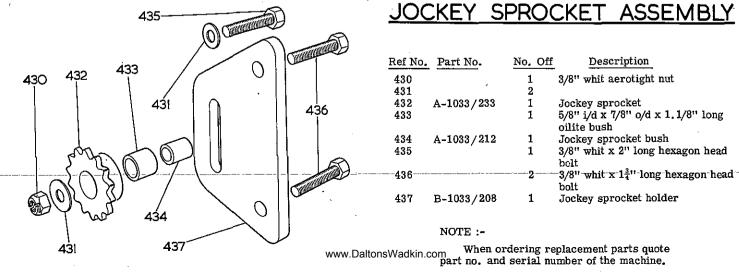
NOTE :-

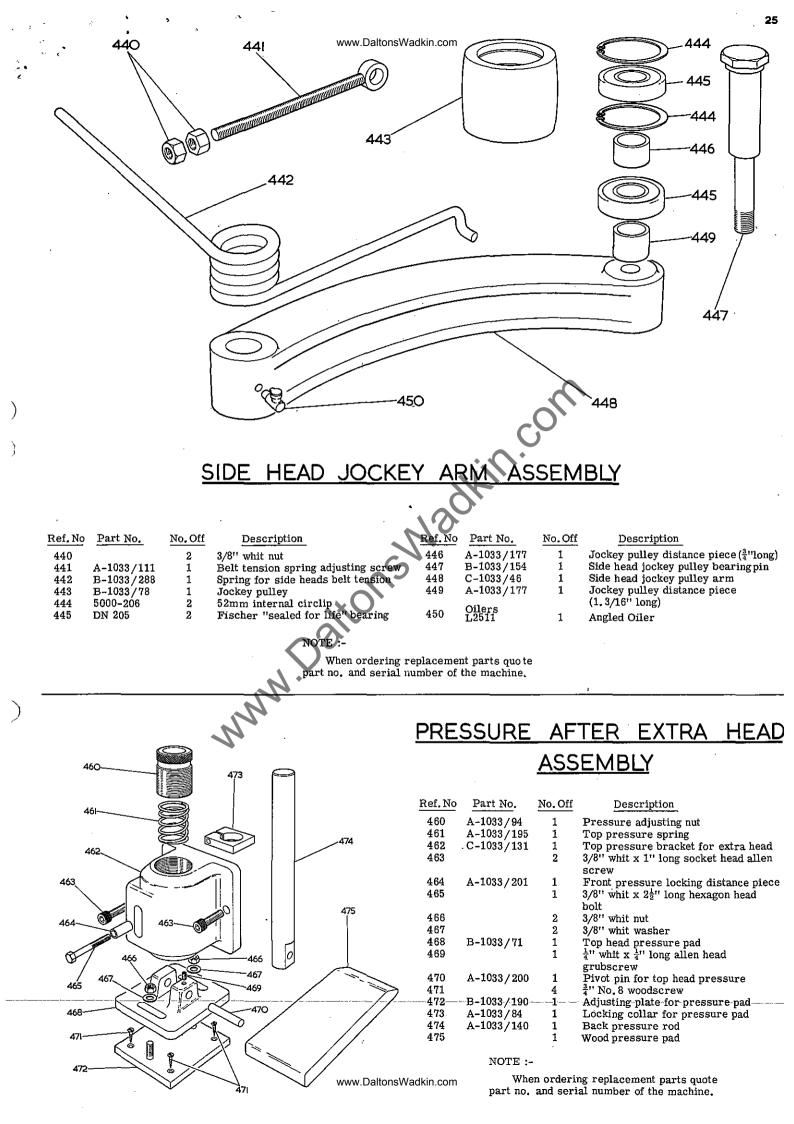
When ordering replacement parts quote part no. and serial number of the machine.

Ref.No	Part No.	No. Off	Description	Ref. No.	Part No.	No. Off	Description
380		2	$\frac{1}{4}$ " wide x 3" long feather key	394	B-1033/152	2	Top pressure rod
381	A-1033/87	2	Top pressure slide bar for side head	395	A-1033/114	1	Pressure arm bracket locking
382		2	$5/16''$ whit x $\frac{3}{4}''$ long socket head		•		eccentric
			grubscrew	396		2	$\frac{1}{4}$ " x $1\frac{1}{2}$ " long groverlok spring dowel
383	B-1033/57	2	Top pressure bracket	397		2	$\frac{1}{4}$ " whit x $\frac{1}{4}$ " long socket head
384	A-1033/94	2	Pressure adjusting nut				grubscrew
385		4	3/8" whit locknut	398		6	No. 8 countersunk head woodscrew
386	<b>В-S-1-</b> В	2	3/8" whit ball lever screw				$\frac{3}{4}$ <sup>tt</sup> long
387		2	5/16" dia x 1" long brass bot	399	A-1033/200	2	Pivot pin for top pressure pad
388		2	5/16" whit x 1" long socket head	400		2	Wood pressure pad
			grubscrew	401	B-1033/89	2	Top pressure pad for side heads
389	A-1033/88	2	Top pressure slide bar plug for side heads	402	and the second sec	2	3/8" whit x 1" long countersunk head screw
390		1	3/8" whit x 1" long dogpoint socket	403	C-1033/49	1	Pressure arm bracket
		-	head grubscrew	404	A-1033/119	1	Pressure arm bracket key
391		1	$1\frac{1}{4}$ " dia plastic ball, 3/8" whit	405	A-1033/118	1	Pressure arm bracket clamp
392	A-1033/195	2	Top pressure spring www.DaltonsWad	ki <b>406</b> .m	A~1033/116	1	Pressure arm bracket eccentric
393	A-1002/90A		Handle for locking eccentric		•		



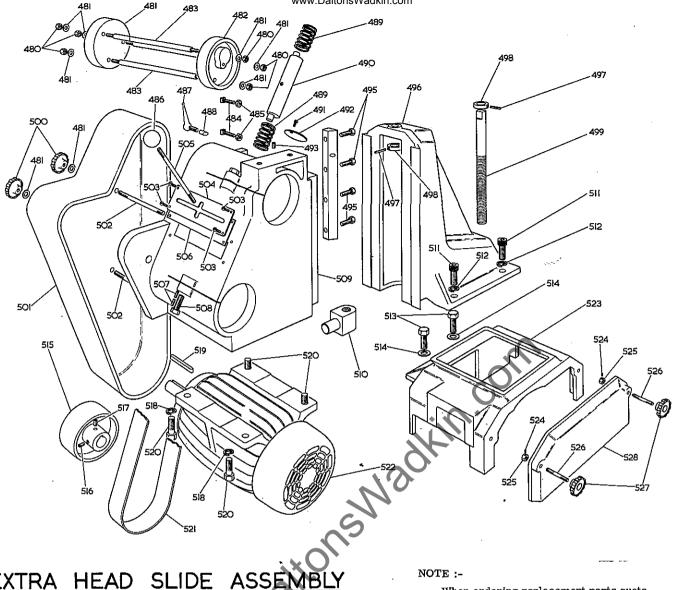






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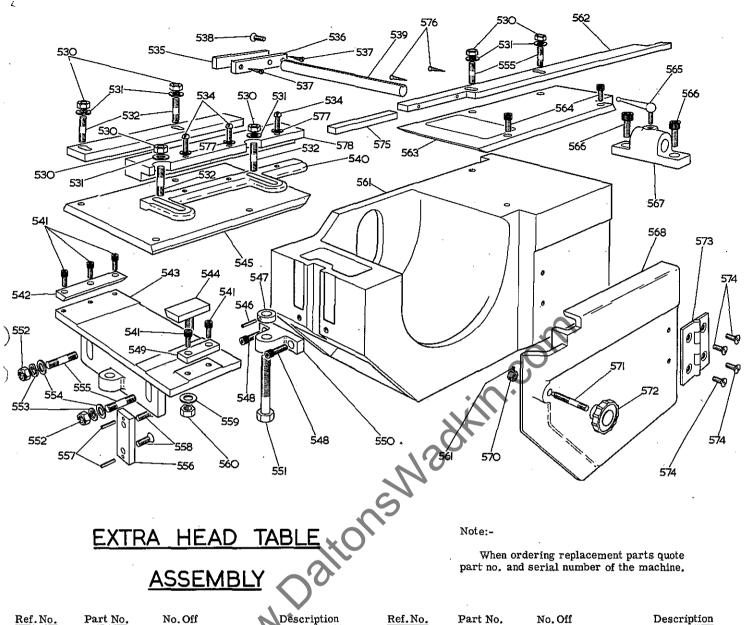
# EMBLY EXTRA HEAD SLIDE

NOTE :-

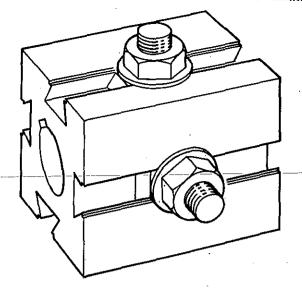
# When ordering replacement parts quote part no. and serial number of the machine.

Ref. No	Part No.	No. Off	Description	Ref. No	Part No.	No.Off	Description
480		6	3/8" whit nut	509	E-1033/120	1	Housing bracket for fifth head
481		- 8	3/8" whit washer	510	A-1033/129	1	R & F nut for extra head
482	B-1033/128	2	Jockey pulley holder	511	,	4	$\frac{1}{2}$ " whit x $1\frac{1}{2}$ " long socket head cap
483	A-1033/139	3	Jockey pulley holder tie bars		-		screw
484		4	$\frac{1}{4}$ " whit x $1\frac{1}{4}$ " long square head bolt	512		4	<sup>1</sup> / <sub>2</sub> " spring washer
485		4	<sup>1</sup> / <sub>4</sub> " whit nut	513		2	$\frac{1}{2}$ " whit x $1\frac{1}{4}$ " long hexagon head bolt
486		1	$1\frac{1}{4}$ " dia plastic ball 3/8" whit bore	514		2	<sup>1</sup> / <sub>2</sub> " washer
487		1	3/8" whit ball lever screw	515	B-1033/16	1	50 cycle motor pulley
488		1	$5/16$ " dia x $1\frac{1}{4}$ "long brass bot		B-1033/265	1	60 cycle motor pulley
489	A-1033/142	2	Adjustment spring	516		1	$1/8''$ gas x $\frac{1}{2}''$ long socket head
490	A-1033/137	1	Lateral adjustment eccentric pin				grubscrew
491		1	3/16" whit x 3/8" long round head	517		1	1/8" gas x 3/8" long socket head
			screw				grubscrew
492	<b>В-1033/287</b>	1	Cover plate for extra head adjustment	518		4	3/8" spring washer
493		1	3/8" whit x 5/8" long socket head	519		1	$5/16''$ wide x $2\frac{3}{4}''$ long feather key
			grubscrew	520		4	$3/8"$ whit x $1\frac{1}{2}"$ long hexagon head
494	A-1033/136	1	Gib strip for extra head				bolt
495		4	3/8'' whit x 1" long hexagon head bolt	521		1	62" long x 2" wide meteor flat belt
496	D-1033/121	1	Slide bracket for extra head				double faced type S (50cycle)
497		2	3/16" x 1 <sup>1</sup> / <sub>4</sub> " long groverlok spring dowel			1	$60\frac{1}{4}$ long x 2" wide meteor flat belt
409	A 1099 /960	n	dowei Collar for extra head R&F screw	<b>F 99</b>			double faced, type S (60cycle)
498 499	A-1033/260 A-1033/135	2 1		522		T	Brook motor, Frame D184, 5HP,
500	A-1033/135	2	R & F screw for extra head $1\frac{3}{4}$ " dia plastic handwheel 3/8" whit				T.E.F.C., 3000rpm foot mounted,
501	D-1033/125	1	Belt guard for extra head			1	3phase, 50cycles Brook 'Kompact' motor, Frame
502	A-1033/269	2	Belt guard stud			1	LS184T, 5HP, T.E. F.C.3, 600rpm,
	M=1000/200	4	$-3/16$ "-whit $x \frac{3}{4}$ "long-round-head-screw-				foot mounted, 3phase, 60cycles
504	C-SK-528/Q	î	Instruction plate for extra head	523	C-1033/124	1	Cover for extra head
505	A-1031/103	1	Lateral adjusting handle for extra	524	0-1000/121	2	3/16" whit x 3/16" long socket head
		-	head			-	grubscrew
506	A-1033/241	1	Extra head cover plate	525		2	3/8" whit nut with 3/16" tapped hole
507		4	$\frac{1}{4}$ " whit x 3/8" long socket head	526	-	2	$3/8''$ whit x $2\frac{1}{4}''$ long stud with spigot
			grubscrew	527		2	$1\frac{3}{4}$ " dia plastic handwheel
508		2	1/2" whit x 2" long hexagon head battons	sWa <b>go<u>k</u>ojn</b> .co	DB-1033/126	1	Door for fifth head cover.

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Ref. No.	Part No.	No. Off	Description	Rei.No.	Part No.	No. Off	Description
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. 530		6	3/8 <sup>17</sup> whit nut	556	A-1033/138	1	Key for adjustable table
531		6	3/8" B.S.F. washer	557			$3/16'' \times \frac{3}{4}''$ long groverlok spring
532		4	3/8" whit x 1.3/8" long stud.			-	dowel
533	B-1033/144	ĩ	Rear fence	558		2	$\frac{1}{4}$ " whit x $\frac{3}{4}$ " long socket head
534		3	$\frac{1}{4}$ " whit x 1" long round head screw			-	countersunk screw
535		1	Wood pad	559		1	$\frac{1}{2}$ " washer
536	A-1033/213	1	Extra head side pressure	560		ī	$\frac{1}{2}$ whit nut
537	•••••••	2	$\frac{3}{4}$ " long No. 8 countersunk head	561	D-1033/122	1	Fixed table for extra head
		-	woodscrew.	562	B-1033/134	1	Front fence
538		1	5/16" whit x 3/4" long socket head	563	B-1033/132	1	Bed plate
		•	countersunk screw.	564	D 1000/ 101	2	$5/16''$ whit x $\frac{1}{2}''$ long socket head
539	B-1033/292	1	Arm for front pressure	001		<b>~</b> .	capscrew
540	B-1033/173	1	Rear extension table guide casting	565		1	3/8" whit ball lever screw
541	2 2000/210	5	$\frac{1}{4}$ whit $x \frac{1}{2}$ long socket head	566		2	$3/8"$ whit $x \frac{3}{4}"$ long socket head
• • •		•	capscrew			-	capscrew
542	A-1033/266	1	Vee strip for adjustable table	567	B-1033/209	1	Extra head side guide bracket
543	C-1033/123	ī	Adjustable table for extra head	568	B-1033/127	î	Door for bottom extra head
544	A-1033/247	ī	Adjustable table bedplate clamp	569	D 2000/101	1	3/16" whit x 3/16" long socket head
545	B-1033/133	1	Bedplate for adjustable table	000		-	grubscrew
546	2 1000/200	1	3/16" x 1" long groverlok spring	570		1	3/8" whit nut with 3/16" tapped hole
•1•			dowel	571		1	3/8" whit x 2" long stud with spigot
547	A-1033/248	1	Adjustable table R & F screw	572		1	$1\frac{3}{4}$ " dia plastic handwheel (3/8" whit)
548		2	5/16" whit x 1" long socket head	573		1	3" steel hinge
0.0		-	capscrew	574		4	$\frac{1}{4}$ " whit x $\frac{3}{4}$ " long countersunk head
		1	Stop-strip-for-adjustable table	·····			
550	B-1033/245	ī	Adjustable table R & F bracket	575		1	Wood insert
551	A-1033/249	ī	Adjustable table R & F screw	576		2	$1\frac{1}{2}$ " long No. 8 countersunk head
552	11 2000/210	2	3/8" whit areotight nut	••••		-	woodscrew
553		2	3/8" spring washer	577		3	$\frac{1}{4}$ " washer
554		2	3/8" washer	578		ĩ	Wood facing for front fence
555		4.	$3/8"$ whit x $1\frac{3}{4}"$ long stud			-	
		-	www.Daltor	nsWadkin.co	om		



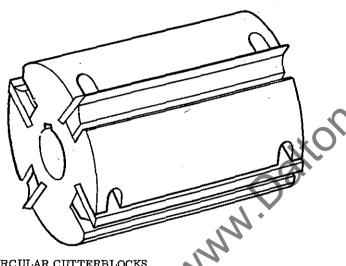
# SQUARE CUTTERBLOCKS

### FOR TCP & BOTTOM HEADS

 $4\frac{3}{4}$ " (120mm) long x 3" (76mm) square cutterblock  $1\frac{1}{4}$ " (31.75mm) bore 1033/107 with bolts, nut and washers

# FOR SIDE HEADS

 $3\frac{1}{4}$ " (82mm) long x 3" (76mm) square cutterblock  $1\frac{1}{4}$ " (31.75mm) bore 1033/210 with bolts, nuts and washers



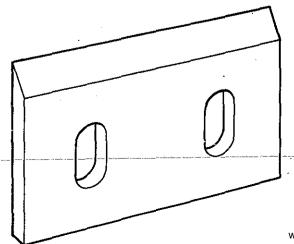
# CIRCULAR CUTTERBLOCKS

FOR TOP AND BOTTOM HEADS

Four knife circular cutterblock  $4\frac{3}{4}$ " (120mm) longx 5" (127mm) dia cutting circle C-1033/214

# FOR SIDE HEADS

Four knife circular cutterblock  $3\frac{1}{4}$ " (82mm) x 5" (127mm) dia cutting circle C-1033/215



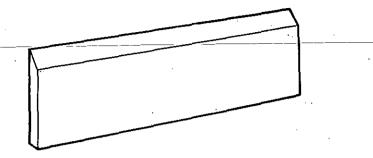
# CUTTERS FOR SQUARE CUTTERBLOCKS

# FOR TOP AND BOTTOM HEADS

1 pair  $4\frac{3}{4}$ " (120mm) long x  $3\frac{1}{2}$ " (89mm) x 3/8" (9.5mm) HSS straight cutters BS, 165

# FOR SIDE HEADS

1 pair  $3\frac{1}{4}$ " (82mm) x  $3\frac{1}{2}$ " (89mm) x 3/8" (9.5mm) HSS straight cutters BS 166



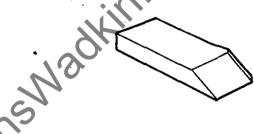
# CUTTERS FOR CIRCULAR CUTTERBLOCK

FOR TOP AND BOTTOM HEADS

1 set straight cutters for circular cutterblock  $4\frac{3}{4}$ " (120mm) long A-S-164/44"

#### FOR SIDE HEADS

1 set straight cutters for circular cutterblock  $3\frac{1}{4}$ " (82mm) long A-S-164/34"



# T.C.T. CUTTERS FOR REBATE BLOCK ON BOTTOM HEAD

1 pair Tungsten carbide tipped cutters 1033/222



# SLITTING SAW FOR FIFTH HEAD

1 - 9" dia alloy steel slitting saw 1 pair saw flanges for above 1 set spacing collars for above

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