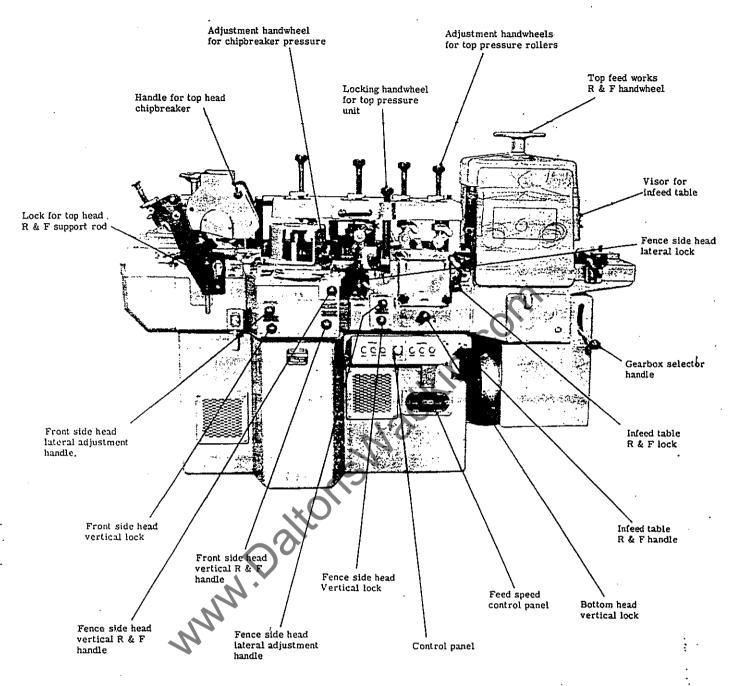
# 6 x 3 PLANER & MOULDER TYPE 6 BFO



### SPECIFICATION

Maximum Size of timber admitted	$6\frac{1}{2}$ " x $3\frac{1}{2}$ "	165 x 90mm
	Standard	Maximum Moulding Dia.
Cutting Circle : Bottom Head	5½" 140mm	6 <del>1</del> " 159mm
Top Head	5 ½ 140 mm	7½" 191mm
Fence Side Head	5½" 140mm	7" 178mm
Front Side Head	5 <u>i</u> '' 140mm	7¼" 185mm
Extra Bottom Head	. 5½" 140mm	7½" 191mm
Extra bottom head can accommodate	9" (230mm) dia, saw	
Feed speeds per minute	20, 30, 40 and 60ft. 6,	9, 12, 18m
Dia, of Spindle End	40mm	40mm
Feed motor (2speed: 3000/1500 rpm)	5-5/4-2HP	5.5/4.2HP
Spindle motors: Horizontal heads	10HP	10HP
Side Heads	7.5HP	7.5HP
Extra bottom head	7.5HP	7.5HP
Spindle speeds	5,000rpm	5,000rpm
Diameter of feed rolls	411	100mm
Yield of feed rolls	5/8"	16mm
Floor space:	•	
4 Head machine	75" x 43"	1900 x 1090mm
5 Head machine	94" x 43"	2390 x 1090mm
Net weight approx:		
4 Head machine	3140 lb	1420 kg
5 Head machine	3360 lb	1525 kg
Shipping dimensions:		2
4 Head machine	onsWadkin 69 Pu. ft.	3,7m3
5 Head machine www.Dan	onsvacini Febrer It	4,7m <sup>3</sup>

### INSTALLATION

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.
- 3. Check the main line fuses are of the correct capacity. See list below. When an isolator is fitted, the fuses are of the correct capacity as received.
- 4. Connect the line leads to the appropriate terminals. See fig.2 for wiring diagram.
- 5. Check all connections are sound.
- 6. Check the rotation of all the motors for the correct direction. If this is incorrect reverse any two of the line lead connections.

Four Head	Machine	•		
Voltage	Phase	HP	S.W.G. Tinned	Fuse
			Copper Wire	Rating
				Amps
220	3	$10/7\frac{1}{2}/5\frac{1}{2}/4\cdot 2$	15	78
380/420	3		19	38
550	3		19	38
Five Head	Machine			
Voltage	Phase	HP	S.W.G.Tinned	Fuse
			Copper Wire	Rating
				Amps
220	3	10/7:/7:/5:/5:/4.	2 14	102
380/420	3		18	45
550	3		18	45

### FOUNDATION

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

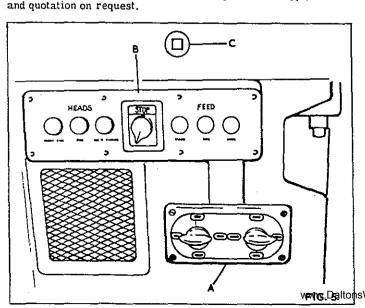
### LUBRICATION

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. Dustraction of Leicester a special collector unit for this machine which represents a big advance on the usual practise of coupling each head independently into the main exhaust system. We shall be pleased to supply details



### OPERATING INSTRUCTIONS FOR ELECTRICAL CONTROLS

All the electrical controls are conveniently placed towards the in-feed end of the machine. The controls are situated in two separate panels as shown in Fig. 5.

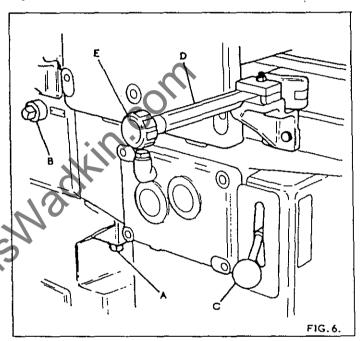
Panel "A" incorporates the rotary switches to control the feed motor. They are for forward and reverse motion of the feed rollers and fast and slow speed to give you the range of feed speeds.

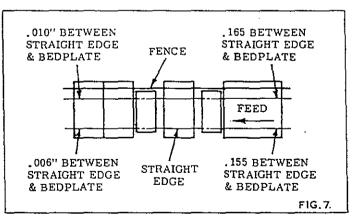
Panel "B" is in two sections. One section for the feed, with start and stop push buttons and an inch button. This button operates the feed in either direction for the period it is depressed only.

The other section has the start buttons for the top and bottom motor, side head motor and extra head motor when supplied.

A master stop button is fitted between the two sections, 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.

A master stop button is also fitted to the main table after the top head.



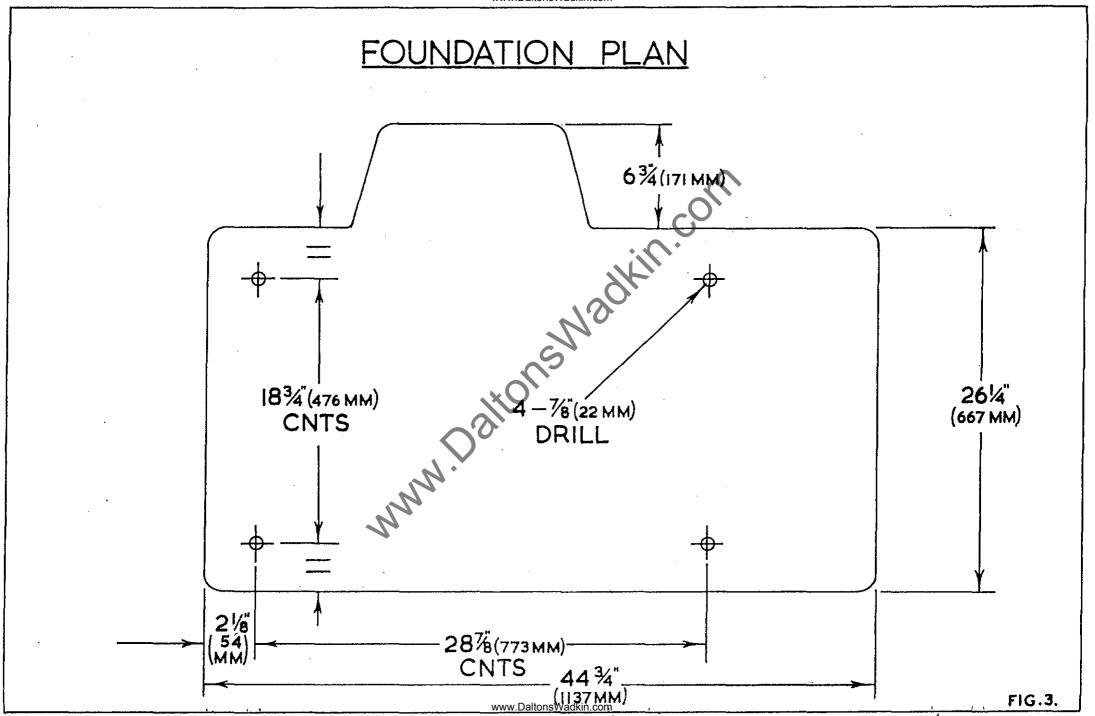


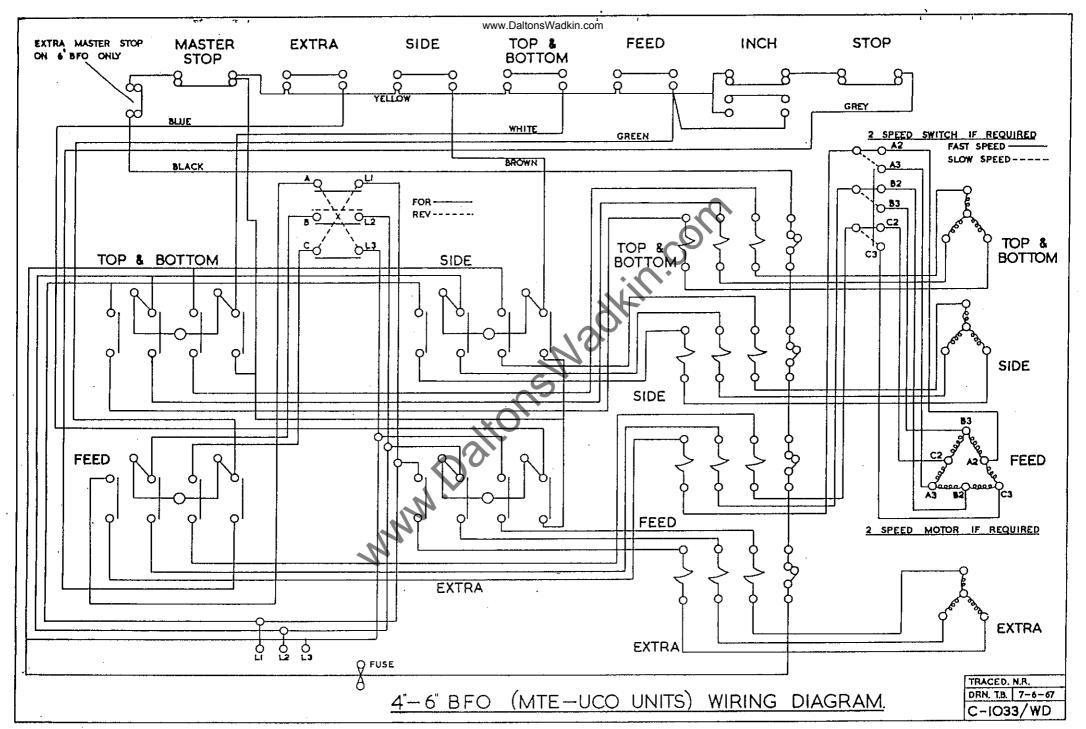
### INFEED TABLE

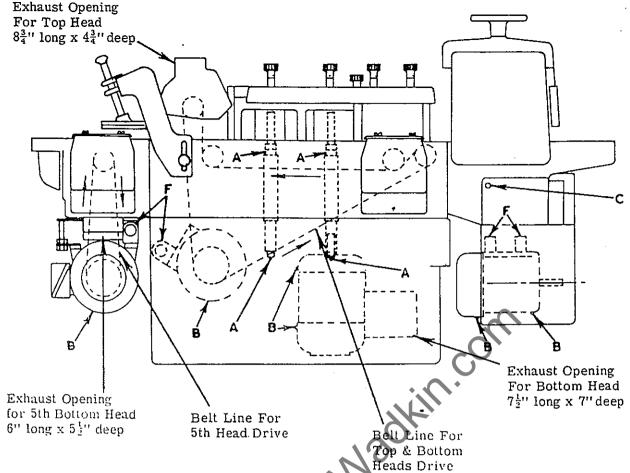
The infeed table is fitted with renewable bedplates and four driven ball bearing mounted feed rollers. The table has a total movement of  $\frac{1}{4}$ " (6mm) which is controlled by the handle "A" in Fig. 6. The table should be set to give the amount of cut required on the bottom head and can be locked in any position by means of the locking handle "B"

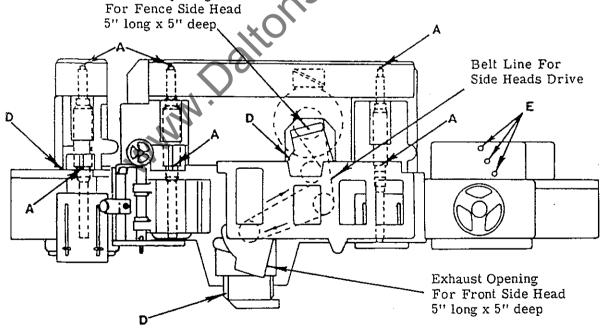
The four feed rollers are all power driven with the top pair mounted directly above the bottom pair. These rollers are pitched to ensure that the stock is kept against the fence throughout the machine.

The rollers are set at the works in accordance with dimensions shown in Fig. 7. The bottom rollers can be adjusted by means of four set screws and locknuts each placed under the ends of the rollers on Care should be taken to ensure that the rollers are set to the dimensions shown should any re-alignment be necessary.









### LUBRICATION INSTRUCTIONS

POINT "A" ONE SHOT OF GREASE PER WEEK

POINT "B" TWO TURNS OF GREASE BOTH ENDS OF MOTOR PER YEAR

POINT "C" TOP UP TO OIL LEVEL WEEKLY USING EP LUBRICANT

POINT "D" OIL SLIDES WEEKLY

Exhaust Opening

POINT "E" KEEP STAUFFERS FILLED WITH OIL

POINT "F" OIL PIVOTS WEEKLY

TYPE OF GREASE RECOMMENDED :- SHELL ALVANIA 3.

TYPE OF OIL RECOMMENDED, POINT C :- CASTROL PERFECTO R.R.

TYPE OF OIL RECOMMENDED, POINT D :- CASTROL "D" EP 140

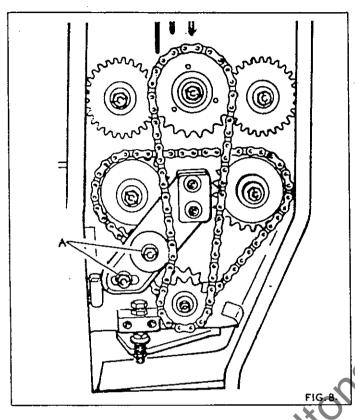
### FEED WORKS

The feed works are chain driven from a two speed generood altons Wadkin.com which in turn is belt driven from a two speed motor giving feed speeds of 20, 30, 40 & 60ft per minute (6, 9, 12 & 18 m/min)

The gearbox is controlled by means of the lever "C" in Fig. and the two speed motor is controlled by the rotary switch which is mounted on the control panel at the front of the machine.

The feed chain can be tensioned by means of the adjustable pulleys "A" in Fig. 8. These are to the rear of the feed works.

The top feed rollers can be raised or lowered by means of the 8" diameter handwheel at top of the feed works unit. This also applies pressure to the feed rollers. Care should be taken, not to apply excessive pressure to the feed rollers as this causes erratic feeding.



### **BOTTOM HEAD**

The drive to this head is by a flat belt from a 10HP motor which also drives the top head. The spindle end is 40mm diameter with special cone seating as shown in Fig. 9, and runs at 5,000rpm.

The block fitted to this spindle is  $3\frac{1}{2}$ " (89 mm) square x  $6\frac{1}{2}$ " (165 mm) long giving a standard cutting circle of  $5\frac{1}{2}$ " (140 mm) dia.

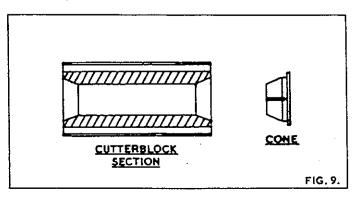
A circular cutterblock can also be fitted which is 5.3/8" (137mm) dia x 6½" (165mm) long and gives a 5½" (140mm) dia cutting circle.

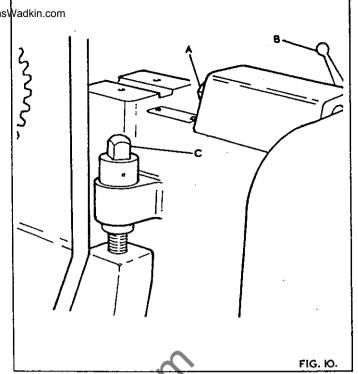
The spindle is provided with lateral adjustment of 3/8"(10mm) by means of handle "A" in Fig. 10. The head is locked by the by means of handle "A" in Fig. 10. The head is locked by the locking handle "B". Vertical movement of 5/16" (8mm) is provided to the spindle by means of the handle "C" which can be locked by the handle "C"in Fig. 5.

The standard cutting circle diameter of the block is  $5\frac{1}{2}$ " (140mm) and a maximum moulding diameter of  $6\frac{1}{4}$ " (159mm) is obtainable on this head.

### NOTE:-

All cone seatings on the spindle and in the cutterblocks should be kept clean and free from dirt at all times.





### FENCE SIDE HEAD

The drive to this head is by a flat belt from a 72HP motor, which also drives the front side head. The spindle end is 40mm dia with special cone seating as shown in Fig. 9 and runs at a

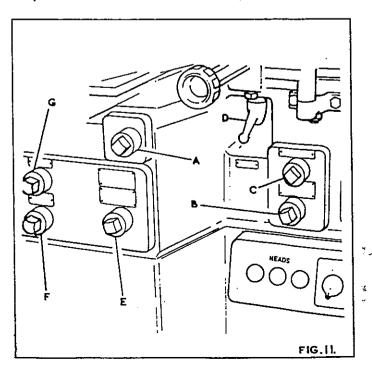
speed of 5,000 rpm. The block fitted to the spindle is  $3\frac{1}{2}$ " (89 mm) square x  $3\frac{1}{4}$ " (83 mm) long giving a standard cutting circle of  $5\frac{1}{2}$ " (140 mm) dia. A circular cutterblock can also be fitted which is 5.3/8" (137mm)

dia x  $3\frac{1}{4}$ " (83mm) long and gives a  $5\frac{1}{2}$ " (140mm) dia cutting circle. The spindle is provided with vertical adjustment of 5/8" (16mm) by means of the handle "A" in Fig. 11. This head is locked by means of the locking handle "B" in Fig. 11. Lateral movement of  $\frac{1}{2}$ " (13mm) is provided to the head by means of the handle "C" in Fig. 11 which can be locked by the locking handle "D" in Fig. 11.

The standard cutting circle diameter of the block is 51 (140mm) and a maximum moulding diameter of 7" (178mm) is obtainable on this head.

### NOTE :-

All cone seatings on the spindle and in the cutterblocks should be kept clean and free from dirt at all times,



The drive to the head is by a flat belt from the same  $7\frac{5}{2}$  HP motor which drives the fence side head. The spindle end is 40mm dia with special cone seating as shown in Fig. 9 and runs at a speed of 5,000rpm.

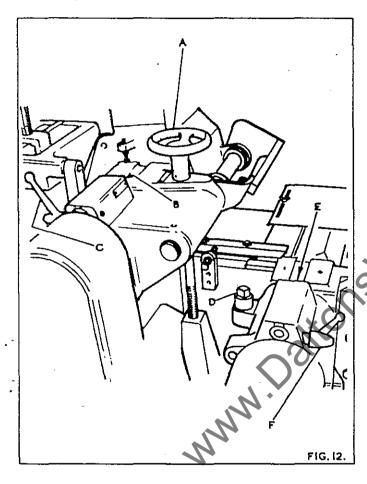
A circular cutterblock can also be fitted which is 5.3/8" (137mm) dia x  $3\frac{1}{4}$ " (83mm) long and gives a  $5\frac{1}{2}$ " (140mm) dia cutting circle.

The spindle is provided with vertical adjustment of 5/8" (16 mm) by means of the handle "E" in Fig. 11. This being locked by means of the locking handle "F". Lateral movement of " $6\frac{3}{4}$ " (171mm) is provided to the head by means of the handle "G" in Fig. 11 which can be locked by the locking handle"

The standard cutting circle diameter of the block is  $5\frac{1}{2}$ " (140mm) and a maximum moulding diameter of  $7\frac{1}{4}$ " (184 mm) is obtainable on this head.

### NOTE:-

All cone seatings on the spindle and in the cutterblocks should be kept clean and free from dirt at all times.



### TOP HEAD

The drive to the head is by a flat belt from the same 10HP motor which drives the bottom head. The spindle end is 40mm dia with special cone seating as shown in Fig. 9 and runs at a speed of 5,000rpm.

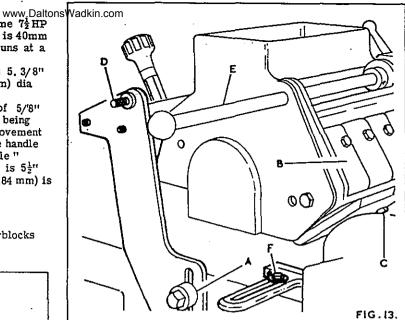
The block fitted to the spindle is  $3\frac{1}{2}$ " (89mm) square x  $6\frac{1}{2}$ " (165mm) long giving a standard cutting circle of  $5\frac{1}{2}$ " (140mm) dia. A circular cutterblock can also be fitted which is 5.3/8" (137mm) dia x  $6\frac{1}{2}$ " (165mm) long and gives a  $5\frac{1}{2}$ " (140mm) dia cutting circle.

The spindle is provided with vertical adjustment of  $3\frac{1}{4}$  (83mm) by means of the handwheel "A" in Fig. 12. This head is locked by means of the locking handle "A" in Fig. 13. Lateral movement of 3/8" (10mm) is provided to the head by the handle "B" in Fig. 12. This can be locked by the handle "C".

The standard cutting circle diameter of the block is  $5\frac{1}{2}$ " (140mm) a maximum moulding diameter of  $7\frac{1}{2}$ " (191mm) is obtained on the head.

### NOTE :-

All cone seatings on the spindle and in the cutterblocks should be kept clean and free from dirt at all times.



### EXTRA HEAD

The drive to the head is by a flat belt from a  $7\frac{1}{2}HP$  motor. The spindle end is 40mm dia with special cone seating as shown in Fig. 9, and runs at a speed of 5,000rpm.

The block fitted to this spindle is  $3\frac{1}{2}$ " (89mm) square and  $6\frac{1}{2}$ "

The block fitted to this spindle is  $3\frac{1}{2}$ " (89mm) square and  $6\frac{1}{2}$ " (165mm) long with a  $5\frac{1}{2}$ " (140mm) dia cutting circle. A circular cutterblock can also be fitted which is 5.3/8" (1^7mm) dia x  $6\frac{1}{2}$ " (165mm) long and gives a  $5\frac{1}{2}$ " (140mm) dia cutting circle.

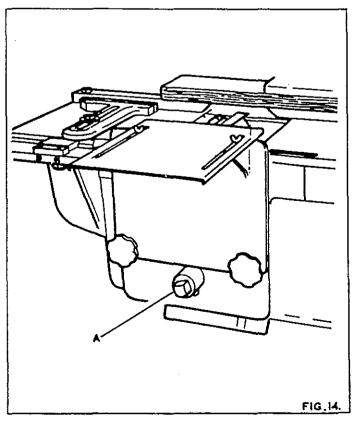
(165mm) long and gives a 5½" (140mm) dia cutting circle.

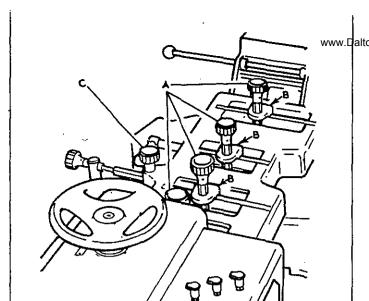
The spindle is provided with vertical adjustment of ¾" (19mm) by means of the handle "D" in Fig. 12 and can be locked by the locking handle "A" in Fig. 14. Lateral movement of 3/8" (10mm) is provided to the head by means of the handle "E" in Fig. 12. This can be locked by the handle "F" in Fig.

The standard cutting circle diameter of the block is  $5\frac{1}{2}$ " (140mm) and a maximum moulding diameter of  $7\frac{1}{2}$ " (191mm) is obtainable on this head.

### NOTE :-

· All cone seatings on the spindle and in the cutterblocks should be kept clean and free from dirt at all times.





### PRESSURES

### First Side Pressure

The first side pressure is mounted on the in-feed table before the feed works as shown in Fig. 6. The roller is mounted on the adjustable bar "D". To set roller reduce spring pressure to a minimum by turning handwheel "E" then proceed to loosen hexagon nut "F" and move bar forward until the roller touches the timber. Move the bar forward a further  $\frac{1}{4}$ " (6mm) and relock hexagon nut "F". This should give the necessary pressure required for a good finish, but should further tension be required this should be done by adjusting the handwheel "E". The spring loaded roller when correctly set will allow for a maximum variation in timber of 3/8" (10 mm) without altering the setting of the pressure unit, except on maximum size stock.

FIG. 15.

### Second Side Pressure before Bottomhead

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

### Top Pressures over Bottom Head and Side Heads

Four top pressures are mounted on the top pressure bracket. Each one can be individually adjusted by reducing spring pressure to a minimum by turning handwheel "A" in Fig. 15 then proceeding to loosen the square head bolt "B" in Fig. 15 . Move bar down until the roller touches the timber, then move bar down a further  $^1_4$ " (6mm) and relock bolt "B". This should give the necessary pressure required for a good linish, but should further tension be required, this should be done by adjusting the handwheel "A". The spring loaded roller when correctly set will allow for a maximum variation in timber of  $3/8"(10\,\mathrm{mm})$  without altering the setting of the pressure unit. The top pressure bracket can be lifted clear to allow for easy access to the cutterblocks by loosening the handwheel "C" in Fig. 15.

### Side Pressure before Front Side Head

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

### Side Pressure After Front Side Head

This pressure is of the solid type. The unit is slotted to give adjustment. To adjust the pressure loosen the bolt "F" in Fig. 13, and position where required and relock bolt "F".

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

### Side Pressure after Top Head (4 Head Machine)

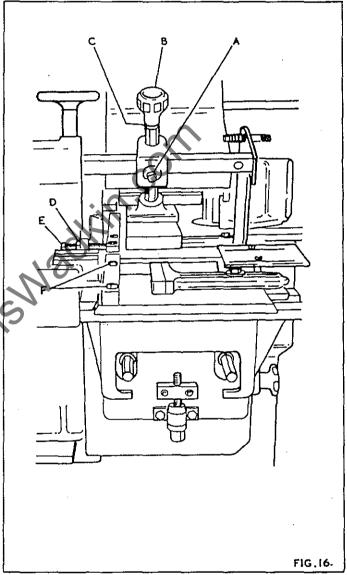
This pressure is identical to the side pressure before top head and is adjustable in exactly the same manner.

### tob Elegante gres tob tream

This pressure is of the spring loaded type with the pressure www. Daltona Wadding of to take a wood pressure pad. To adjust to pressure loosen the square head nut "A" in Fig. 16 making sure that the pin is in the centre of the slot on the hexagon tube. Move pad down until it touches timber and relock bolt "A". Pressure can now be applied to the pad by adjusting handwheel "B" until there is approximately \( \frac{1}{4}\)" (6mm) between adjusting bar and handwheel boss as shown at "C". This should give the necessary pressure required for a good finish, but should further tension be required this should be done by adjusting the handwheel "B".

### Side Pressure after Extra Head (5 Head Machine)

This pressure is identical to the side pressure before top head and is adjustable in exactly the same manner.



### CHIPBREAKERS

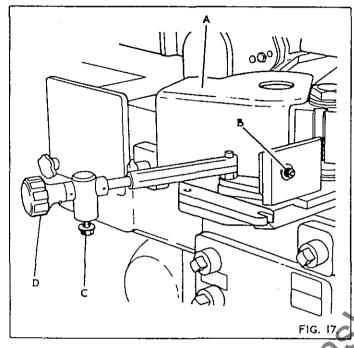
### Side Head Chipbreaker

This chipbreaker is fitted to the slide which houses the front side head and so moves with the whole head unit. The chipbreaker bracket "A" in Fig. 17. can be set to the cutting circle being used by using any one of the three hole positions on the guard. The steel toe piece can be adjusted by loosening the socket head capscrew "B" in Fig. 17. positioning as required then relocking the socket head capscrew "B". The chipbreaker assembly pivots by means of a pivot screw which also has three alternate positions depending on the relationship of the bedplate to the cutting circle. The whole unit can be moved clear to give access to the front side head by loosening the bolt" C" and swinging the unit round on its pivot. When in the working position, pressure can be placed on the chipbreaker by means of the handwheel "D".

### Top Head Chipbreaker

This chipbreaker is fitted with removable weights with Collins Wackin Collins Tig. 13 for required pressure. Two steel toe pieces are attached to the chipbreaker and are adjustable by loosening the hexagon head bolts "C", positioning where required then relocking the hexagon head bolts "C". The chipbreaker has two positions depending on the cutting circle being used. These positions can be altered by loosening the hexagon head bolt at the rear of the chipbreaker then removing the hexagon head bolt "M" at the front moving the chipbreaker to the desired cutting circle and replacing the hexagon head bolt in the appropriate hole. Relock both bolts.

The complete guard and chipbreaker assembly can be lifted clear to give access to the top head cutterblock. The assembly will be held clear by means of the spring loaded plunger "D". Care should be taken, by taking the weight of the chipbreaker with the handle "E" before releasing the plunger "D" then gently lowering the unit back to the working position.



### **FENCES**

### Infeed Fence

This pre-set fence is secured to the infeed table and needs no adjustment.  $% \begin{center} \end{center} \begin{center} \beg$ 

### Fences between Bottom and Fence Side Head

These two short fences are fitted to the bedplate between the bottom and fence side heads and are provided with longitundal adjustment to cater for various cutting circles. To adjust fences loosen large socket head capscrew "A" in Fig. 18 at rear of fence, proceed to loosen the hexagon head bolts "B" position fences with minimum clearance to cutting circles then relock bolts "B" and capscrew "A".

### Outfeed Fence

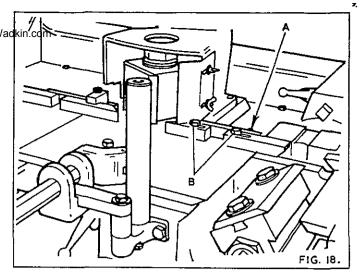
This fence is secured to the main table immediately proceeding the fence side head and has a total lateral adjustment of  $\frac{1}{4}$ " (6mm). For this adjustment loosen socket head capscrew "A", hexagon

For this adjustment loosen socket head capscrew "A", hexagon head bolts "C" and locknut "D" in Fig. 19 also loosen locknut "D" in Fig. 16. Proceed to adjust square head bolts "E" in Fig. 19 and "E" in Fig. 16 equally until fence is in required position. Relock locknuts "D" in Fig. 16 and 19, hexagon head bolts "C" in Fig. 19 and socket head capscrew "A" in Fig. 19. This proceedure ensures the outfeed fence is kept parallel to the infeed fence.

The short extension of the outfeed fence is adjustable longitudinally to cater for various cutting circles on the fence side head. For adjustment loosen socket head capscrews "A" and "B" in Fig. 19, position fence with minimum clearance to cutting circle, then relock socket head capscrews "A" and "B".

### Fence after Extra Head (Five Head Machine)

This fence is fitted to the bedplate on the rear table and has a total lateral adjustment of  $\frac{1}{4}$ " (6mm). The fence moves longitudinally with the bedplate to give minimum clearance to the fifth head cutting circle. To adjust fence laterally loosen hexagon head bolts "F" in Fig. 16, position fence as required ensuring that it is kept parallel to the outfeed fence and relock hexagon head bolts "F".



### BEDPLATES

Renewable steel bedplates are fitted throughout the entire length of the machine.

### Fixed Bedplate before Feed Works

This bedplate is secured to the infeed table before feed works and requires no further attention.

### Fixed Central Infeed Table Bedplate

This bedplate requires no further attention.

### Fixed Bedplate after Feed Works

This bedplate requires no further attention,

### Adjustable Bedplate before Bottom Head

This bedplate has 1" (25mm) adjustment to allow for varying sizes of cutting circle, A 1" (25mm) wide removable packing piece is also provided.

### Adjustable Fence Side Head Bedplate

This bedplate has  $7/8^{\prime\prime}$  (22mm) adjustment to allow for varying sizes of cutting circle

### Adjustable Front Side Head Bedplate

This bedplate is attached to the front side head and moves laterally with the head. It also has an independent movement of  $\mathbf{1}_{1}^{10}$  (32mm).

### Bedplate below Bottom Head

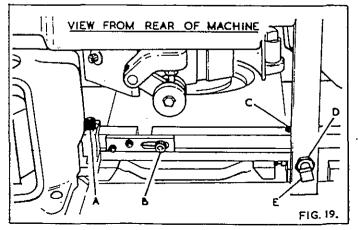
This bedplate requires no further attention.

### Bedplate for Extra Head (5 Head Machine)

This bedplate has  $2\frac{1}{2}$ " (64mm) adjustment to allow for varying sizes of cutting circle.  $2\frac{1}{2}$ " (64mm) and  $1\frac{1}{4}$ " (32mm) removable packing pieces are also provided.

### Bedplate after Extra Head

This bedplate is secured to the fifth head slide bracket and is adjustable longitudinally with the table to the size of cutting circle.

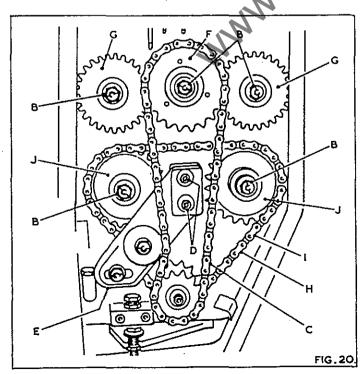


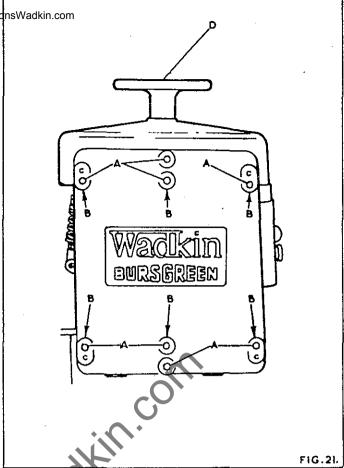
### Instructions to Change Feed Rollers

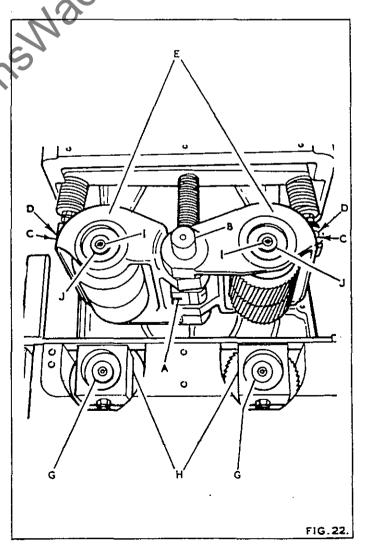
To change feed rollers the undermentioned procedure swww.DaltdnsWadkin.com be followed:-

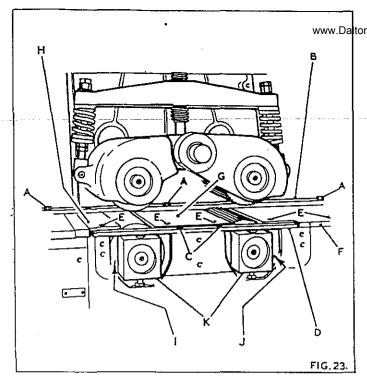
- Remove feed works drive cover at rear of machine then loosen aerotight nuts and washers "B" in Fig. 20 and remove.
- Extract split link "C" remove chain. Proceed to loosen socket head capscrews "D" and remove chain tensioner assembly "E".
- 3. Remove drive gears "F" and "G" complete with spacers behind gears "G". Proceed by extracting split link "H" removing chain "I" and sprockets "J".
- 4. Loosen four round head screws holding infeed table visor and remove visor. Remove dust caps "A" in Fig. 21 and proceed to loosen socket head capscrews "B" in Fig. 21. Drift front sideframe "C" from dowels by means of hide faced mallet or similar tool.
- 5. Raise feed rollers to top position by means of handwheel "D "in Fig. 21 . Loosen socket head capscrew "A " in Fig. 22 then lower feed rollers by handwheel "D" in Fig. 21 down until they rest on piece of stock which should be placed beneath feed rollers to take weight.
- 6. Remove feed roller pivot shaft "B" in Fig. 22 by drifting from the rear of machine, then continue by removing circlips "C" and driving pins "D".
- Top feed roller housing assembly "E" can now be removed from machine.
- 8. Proceed with bottom rollers by loosening hexagon head bolts "A" in Fig. 23 and removing infeed fence "B". Loosen socket head capscrews "C" and remove feed roller retaining bar "D" taking care not to lose two tension springs.
- 9. Loosen socket head capscrews "E" and remove bedplate "F" before feed rollers, bedplate "G" between feed rollers and bedplate "H" after feed rollers.
- Lift feed rollers "I" and "J" vertical until the bearing blocks at the fence side clear dowels, then remove from machine.
- 11. At this stage the bottom feed rollers can be changed by loosening countersunk head screws and washers "G" in Fig. 22 then removing bearing blocks "K". The feed rollers can now be removed from their respective shafts.
- 12. To remove the top feed rollers from housings, loosen hexagon head screws and washers "I" in Fig. 22 and remove shafts "J" by pressing from same end as circlip held bearings. Note position of spacers on shafts to ensure correct reassembly. The rollers can now be removed.

To replace feed roller assembly reverse above procedure.



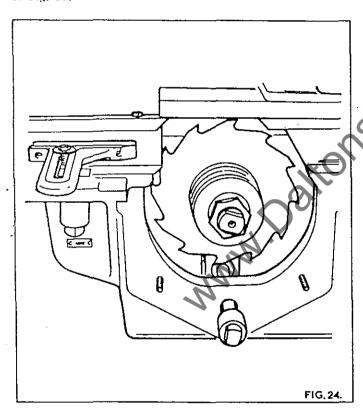






### EXTRA

A 9" dia alloy slitting saw can be fitted to extra head as shown in Fig.  $24\,.$ 



### Shaping Cutters

When 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. 25 shows the projections of the cutter to produce a simple rebate. For example using the  $3\frac{1}{2}$ "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. 26.

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 www.Da tons **Alexania** for the bolt head when working with straight irons only.

The cutting angle which is normally 35° is shown at "B" in

Fig. 25 and the cutting angle at "C" this angle varies with the size of the cutterblock and the depth of the mould.

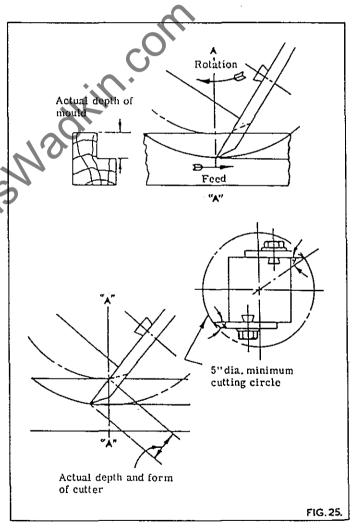
To obtain the correct cutter form for a shaped mould without using the moulders rule, it is necessary to plot this out as shown.

First the square block and cutter at minimum cutting circle are drawn out at "Y" in Fig. 26 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 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. 27. 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. 27. 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.

Cutters should be ground carefully avoiding any overheating Daltons Wadkin.com 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 discoloured during grinding as this indicates overheating.

The correct cutting angle of 35° for most cutters should be

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. 28 (A) and (B).

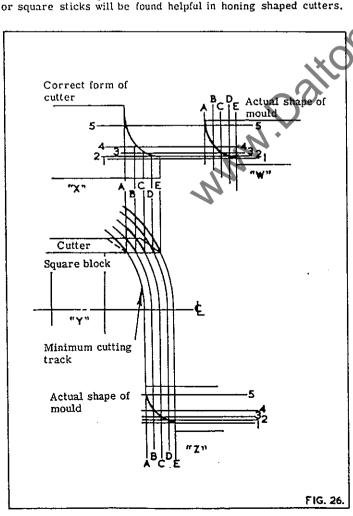
Hollow grinding is recommended whenever possible, as a keen cutting edge is more easily obtained when hand lapping. When lapping or stoning a flat ground cutter, a good edge is more difficult to obtain due to the tendency to rock the stone and leave a convex face.

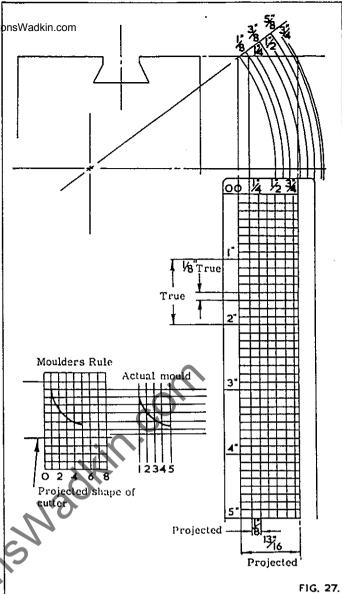
Good open grain wheels should be used and should not be allowed to become glazed as this will cause excessive heat.

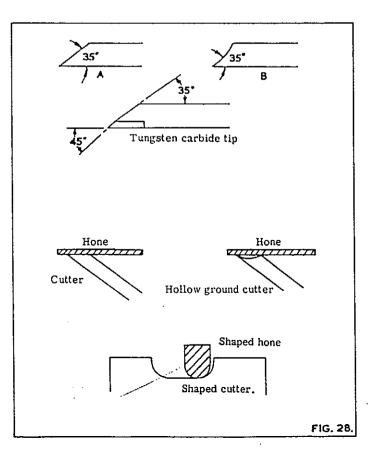
About 12" (304mm) diameter wheels used down to 10" (254mm) give the best radius for a hollow grind and an economic life 8" (204mm) wheels used down to 6" (153mm) leave the grind too hollow.

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.

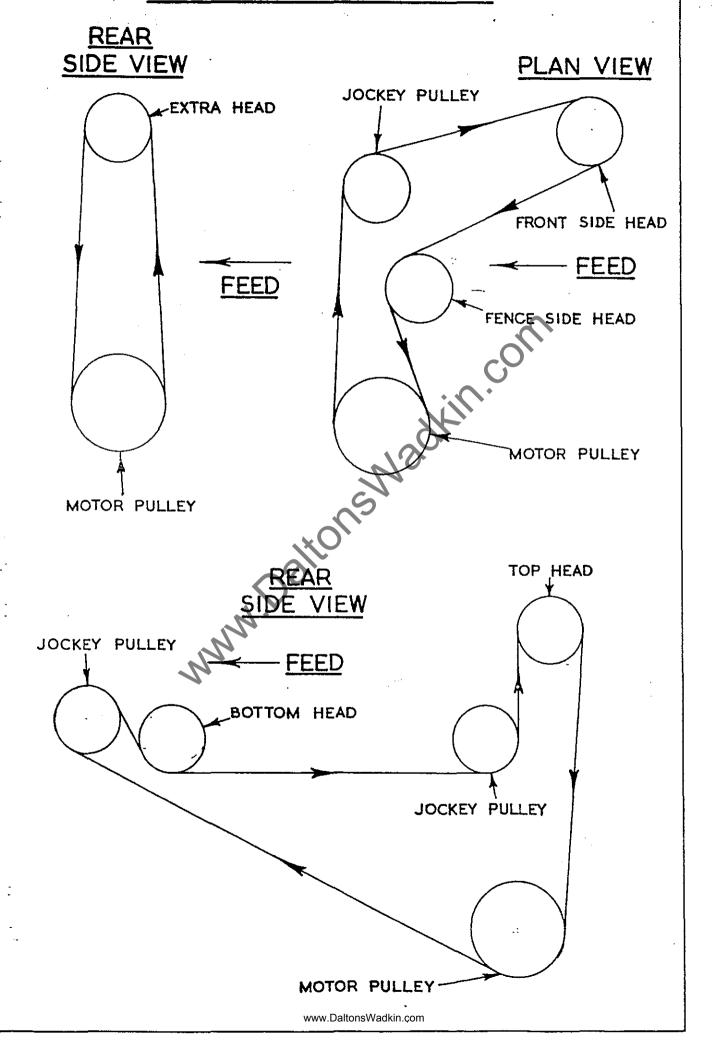
All cutter blanks sent out by us are ground only, and, if used as chippers or rebate cutters, require honing with a 142 carborundum slip stone to produce at razor sharp edge before commencing to cut. This will ensure a good finish on the wood and an easy feed. Dull cutters give a poor, rough and plucked 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

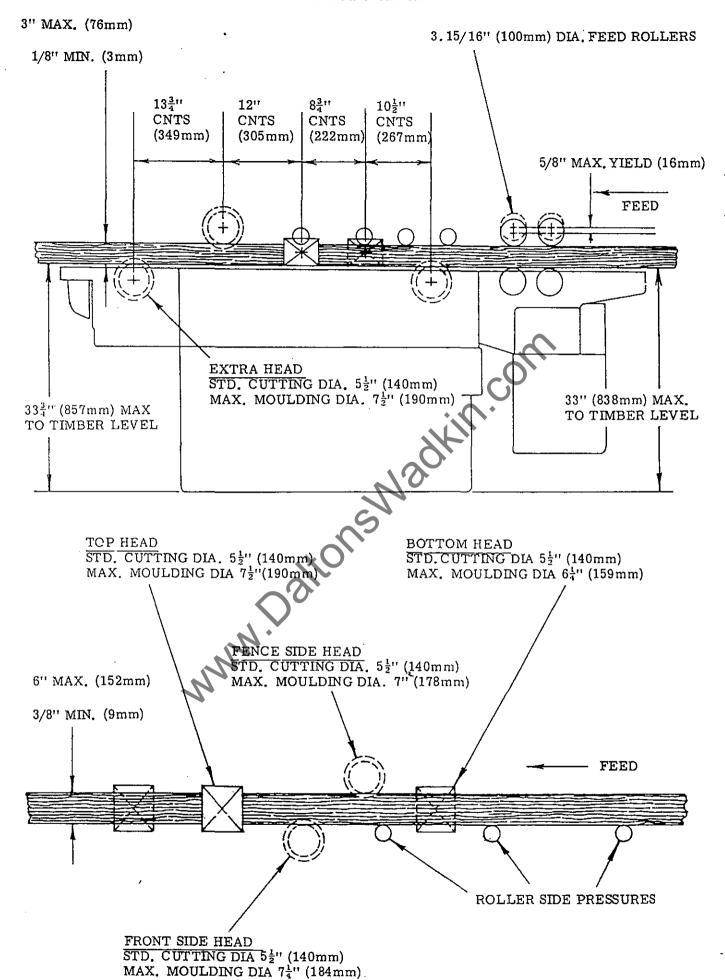


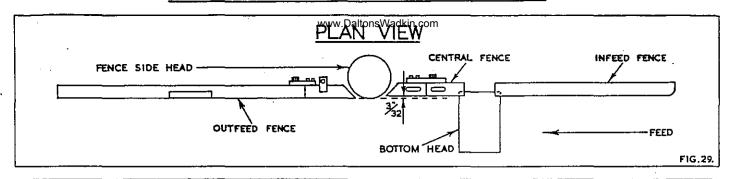


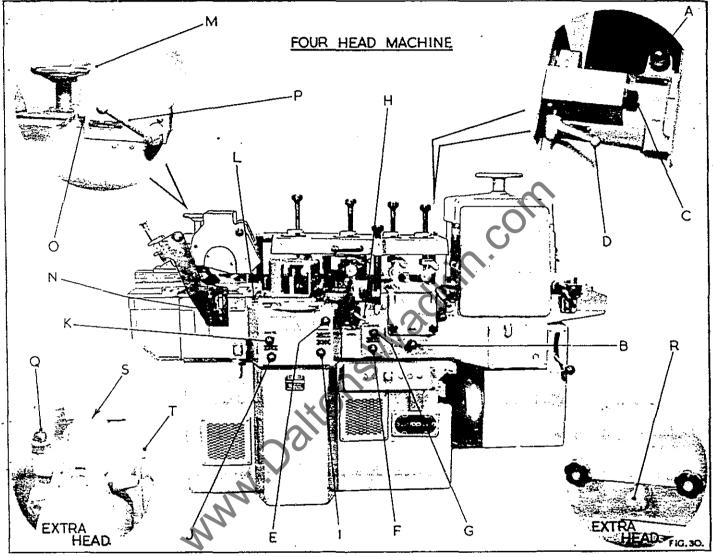


# BELT DRIVE DAILY OUT









Upon leaving the works all machines have the central and outfeed fences pre-set to the infeed fence (as in Fig. 29.) which requires no adjustment. These fences when altering, must be kept parallel to the infeed fence, which can be accomplished by placing a straight edge along the fences.

To set the machine to the shape and size of mould required the following procedure should be followed:-

Work along the machine starting at first bottom head. Position work along the machine starting at 11rst notion head. Position cutterblock vertically by means of handle "A" in Fig. 30 until minimum cutting circle lines up with central bedplate. Lock head vertically by handle "B". Lateral movement is made through handle "C" which in turn is locked by handle "D".

Note:- Ensure locks are free before making either vertical or lateral adjustment.

2. Having set bottom head, adjustment is now carried out on fence side head. Set cutting circle in line with outfeed fence according to stock being worked. Vertical adjustment through the handle "E" is locked by handle "F". Lateral adjustment through handle "G" is locked by handle "H".

Note:- Ensure locks are free before making either vertical or lateral adjustment.

Similar procedure is then carried out on front side head. Handle "I" for vertical adjustment is locked by handle "J". Lateral movement is through handle "K" which is in turn locked by handle "L".

Note:- Ensure locks are free before making either vertical or lateral adjustment.

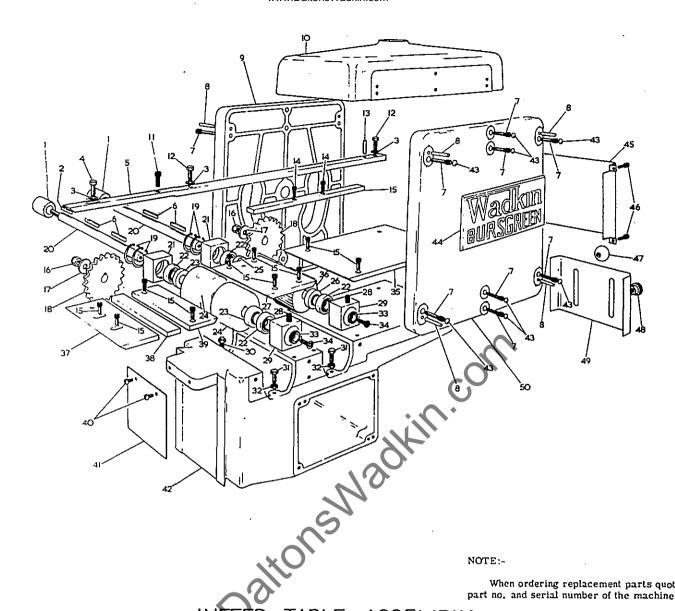
Having set front side head proceed to adjust top head to suit stock. Vertical adjustment by means of handwheel "M" is locked by handle "N". Lateral movement through handle "O" which in turn is locked by handle "P".

Note:- Ensure locks are free before making either vertical or lateral adjustment.

5. On all machines an extra head can be fitted as an optional when fitted, adjust as follows:-Vertical adjustment by handle "Q" is locked by handle "R". Lateral movement through handle "S" is in turn locked by handle "T".

Note:- Ensure locks are free before making either vertical or lateral adjustment.

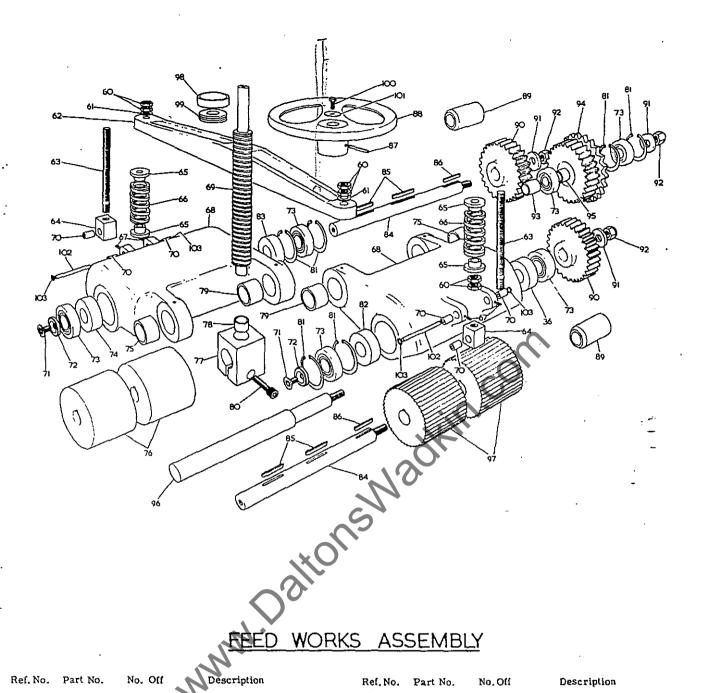
- Pressures are used along the machine to keep stock being worked, well up against either the fence or bedplate. They must be set to suit the stockbeing worked as previously described.
- Feed rollers should be adjusted to correct pressure on the stock so as to give a smooth feeding action throughout the machine as previously described.
- Before commencing to start the machine carefully check to ensure that all the cutters are tight and secure in their respective cutterblocks. Inch stock through feed rollers checking that they have lifted to the horizontal position and are driving overfull face of stock. Check that the pressures and fences are all set correctly, before commencing to make www.DaltonsWadkinecone first mould.



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

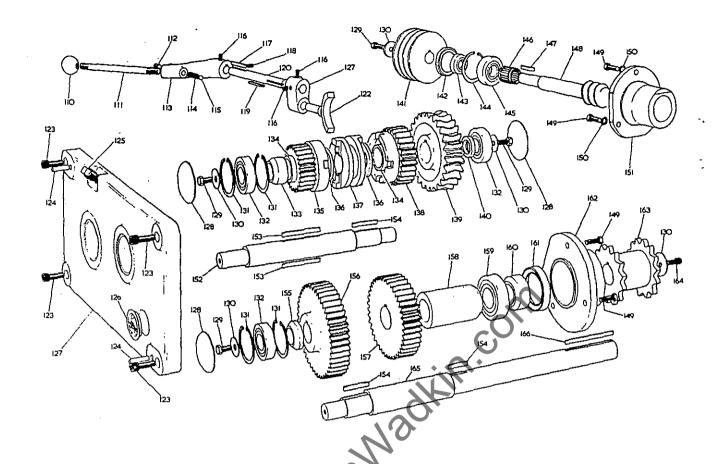
# TABLE ASSEMBLY

Ref. No.	Part No.	No.Off	Description	Ref.No	Part No.	No. Off	Description
1	A-105G/69	2			<del></del>		
. 2	M-1000/09	2	Bottom feed roller distance piece	26	A-1056/72	1	Feed roller retainer (27/32" wide)
3		-	wide x 11 long key	27	B-1056/161	1	Centre bedplate for infeed table
4		3	3/8" BSF Washer	28	A-1810/74	2	Spring for bottom feed roller block
*		1	$3/8$ " whit x $1\frac{1}{4}$ " long hexagon head	29	B-1056/93	2	Bottom roller bearing block
=	D 1050 (150		bolt	30	A-1056/329	2	Feed roller adjustment screw
2	B-1056/170	1	Infeed fence	31		2	3/8" whit x 1½" long hexagon head
6		4	1'' wide x 1½" long key				bolt
•		14	3/8" whit x 13" long socket head	32		4	3/8" whit locknuts
		_	capscrew	33	A-1056/370	2	Washer for feed roller shaft
8		8	3/8" dia x 2" long fluted dowel	34		2	$\frac{1}{2}$ " whit $x = \frac{3}{4}$ " long countersunk socket
9	D-1056/4	1	Rear sideframe for feedworks				head screw
10	D-1056/5	1	Top cover for feedworks	35	B-1056/160	1	Front bedplate for infeed table
11		1	3/8" whit x 1" long socket head	36	B-1056/131	2	Serated feed roller
			capscrew	37	B-1056/163	1	Adjusting bedplate for infeed table
12		2	$3/8$ " whit x $1\frac{3}{4}$ " long hexagon head	38	A-1056/169	1	Packing piece for infeed table
			bolt		•		bedplate
13		1	$3/8$ " dia x $1\frac{1}{4}$ " long dowel	39	B-1056/162	1	Fixed rear bedplate for infeed table
14		11	5/16" whit x 12" long socket head	40	,	2	4" whit x ½" long hexagon head bolt
			grubscrew	41	B-1056/192	ī	Deflector for infeed table
15	B-1056/287	1	Bottom feed roller spring block	42	E-1056/1	ï	Infeed table
16		2	½" whit aerotight nut	43	•	8	Plastic caps for 3/8" whit socket
17	A-1056/343	2	Washer for feed roller shaft				head capscrew
18	B-1056/27	2	Bottom feed roller sprocket	44	B-S-115	1	Nameplate
19	No.5000/206	4	52mm Truarc internal circlip	45	C-1056/181	ī	Cover for feedworks
20	B-1056/134	2	Bottom feed roller shaft	46	,	4	4" whit x ½" long socket head
21	B-1056/93	2	Bottom roller bearing block with			-	capscrew
			circlip groove	47		1	$1\frac{1}{4}$ " dia x 3/8" whit bore plastic ball
22	SKF-6205-2R	S 4	Sealed for life bearing	48	A-1029/59	2	Knurled knob
23	A-1056/72	2	Feed roller retainer (23/32" wide)	49	C-1056/182	1	Visor for feedworks
24	B-1056/301	2	Plain feed roller	50	D-1056/3	ī	Front sideframe for feedworks
25	A-1056/72	1	Feed roller retainer (19/32" wide)	51	/0	2	1" spring washer
						_	4 sharing amounts



Ref. No.	Part No.	No. Off	Description	Ref. No.	Part No.	No.Off	Description
60		8	½" whit Locknut	80		1	$\frac{1}{2}$ " whit x $1\frac{1}{2}$ " long socket head
61		2	½" washer			•	capscrew
62	C-1056/7	1	Feed roller rise and fall bracket	81 2	<pre>/ 5,000/206</pre>	6	52mm Truarc internal circlip
63	A-1056/159	2 2	Feed roller spring stud	82	A-1056/72	1	Feed roller retainer (15/16" wide)
64	A-1056/154	2	Top feed roller spring block	83	A-1056/72	1	Feed roller retainer (5/8" wide)
65	A-1056/289	4	Feed roller spring seating	84	£ B-1056/133	2	Top feed roller shaft
66	A-1033/300	2	Feed roller spring	85 4	<i>-</i>	4	$\frac{1}{4}$ " wide x $1\frac{1}{2}$ " long key
67	-	4	$\frac{1}{4}$ " whit x 3/8" long socket head	86 2	2	2	'' wide x 1 '' long key
			grubscrew	87	No. 4	1	Taper pin
68	D-1056/6	2	Feed roller pivot arm	88	3B	1	Handwheel (8" dia)
69	B-1056/130	1	Feed roller rise and fall screw	89	A-1056/245	2	Top feed roller distance piece
70	A-1056/395	6	Feed roller shear bush	90	B-1056/29	2	Feed roller drive gear
71	•	2	$\frac{1}{2}$ " whit x 1" long countersunk socket	91	A-1056/343	3	Washer for feed roller shaft
			head grubscrew	92		3	½" whit aerotight nut
72	A-1056/370	2	Washer for feed roller shaft	93	A-1056/70	1	Distance piece (1.7/16" long)
73 4	SKF-6205-2RS	5 5	Sealed for life bearing	94	B-1056/30	1	Feed roller centre gear
74 `	A-1056/72	1	Feed roller retainer (2" wide)	95	A-1056/70	1	Distance piece (3" long)
75	•	2	$1\frac{1}{4}$ " bore x $1\frac{1}{2}$ " o/d x $1\frac{1}{2}$ " long cilite	96	B-1056/132	1	Feed roller pivot bar
			bush	97	B-1056/131	2	Serated feed roller
76	B-1056/301	2	Plain feed roller	98	A-1056/71	1	R & F screw thrust race shroud
77	B-1056/135	1	Feed roller rise and fall screw	99	W ¾" B	1	Hoffman thrust race
			support	100		1	$\frac{1}{4}$ " whit $x = \frac{1}{4}$ " long hexagon head bolt
78		1	$\frac{3}{4}$ " bore x 1" o/d x $\frac{1}{2}$ " long oilite bush		A-1033/280	1	Washer
79		2	$1\frac{1}{4}$ " bore x $1\frac{1}{2}$ " o/d x $1\frac{1}{2}$ " long oilite	102	A-1056/394	4	Feed roller shear pin
			bush	103	5555 - 18	4	3/16" grip rings
			NOTE:-				, •

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



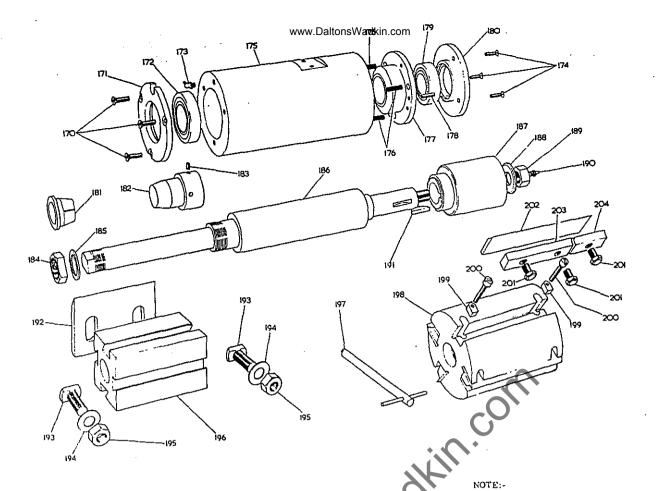
# GEARBOX ASSEMBLY

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.O	ff Description .
110		1	$I_{\frac{1}{2}}^{1}$ dia plastic ball, $\frac{1}{2}$ whit	140	A-1056/63	1	Gearbox input shaft distance piece
111	A-1810/73	1	Selector handle stud				(7/32" long)
112		1	" whit x 5/8" long socket head	141	B-1056/33	1	Gearbox pulley (50 cycle)
			grubscrew		B-1056/350	1	Gearbox pulley (60cycle)
113	B-1810/30	1	Gearbox selector handle		INA		
114	A-1810/74	1 .	Selector handle compression spring	142	G42 x 52 x 4	1	Oil seal for worm shaft
115		1	3/8" dia steel ball	143	A-1056/65	1	Worm shaft distance piece
116		3	1/8" gas x 3/8" long socket head	144	5,000/206	1	52mm internal circlip
			grubscrew	145	SKF 6205	1	Bearing for worm shaft
117		1	3/16" wide x 1" long key		INA		-
118		1	1/8" gas x ½" long socket head	146	NK30/20	1	Roller bearing for worm shaft
			grubscrew	147		1	$5/16$ " wide x $1\frac{1}{4}$ " long key
119		1	3/16" wide x 1" long key	148	B-1056/324	1	Worm for gearbox
120	A-1056/311	1	Gearbox handle shaft	149		6	5/16" whit x 1" long hexagon head bolt
121	B-1810/31	1	Gearbox selector arm	150		3	5/16" BSF washer
122	A-1810/32	1	Gearbox selector	151	B-1056/19	1	Gearbox worm shaft bearing housing
123	•	4	$3/8"$ whit x $1\frac{1}{4}$ " long socket head	152	B-1056/25	1	Gearbox input shaft
	•		capscrew	153		2	'' wide x 2'' long key
124		2	3/8" dia x 13" long fluted dowel	154		3	$\frac{1}{4}$ " wide x $1\frac{1}{4}$ " long key
125		1	½" gas filler plug for gearbox	155	A-1056/62	1	Gearbox output shaft distance piece
126	IC4610	1	Oil level window				(short)
127	C-1056/8	1	Gearbox lid	156	B-1056/21	1	45 tooth output gear
128	•	3	Welsh washer (2" dia)	157	B-1056/20	1	39tooth output gear
129		4	$5/16$ " whit x $\frac{3}{4}$ " long hexagon head bolt	158	A-1056/61	1	Gearbox output shaft distance piece
130	A-1031/70	5	Washer		·		(long)
131	5,000/185	4	47mm Truarc internal circlip	159	SKF 6206	1	Bearing for gearbox
132	SKF 6204	3	Bearing for gearbox	160	A-1056/64	1	Gearbox output sprocket distance
133	A-1056/63	1	Gearbox input shaft distance piece	•			piece
	,		(13/16" long)		WB 2441		
134		2	1" bore x $1\frac{1}{4}$ " o/d x $1\frac{1}{2}$ " long oilite	161	7739 R 4	i	Weston oil seal
			bush	162	B-1056/112	1	Gearbox output shaft bearing housing
135	B-1056/23	1 *	20tooth input gear	163	B-1056/28	1	Gearbox sprocket
136	A-1810/71	2	Gearbox layshaft distance piece	164	•	1	3/8" whit x 1" long socket head
137	B-1810/68	1	Gearbox selector dog				grubscrew
138	B-1056/22	1	26tooth input gear	165	B-1056/26	1	Gearbox output shaft
139	B-1056/324	1	Wormwheel for gearbox	166	•	1	$5/16$ " wide x $2\frac{3}{4}$ " long key

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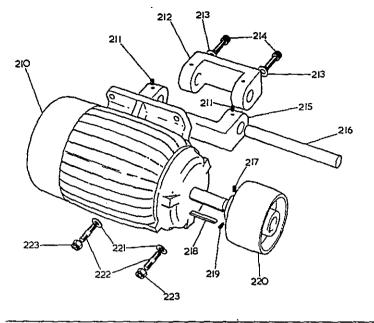


# SPINDLE ASSEMBL

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

Rel. No	Part So.	$\widetilde{N}o^*\widetilde{O}\widetilde{\Omega}$	Description	<u>Ref. No.</u>	Part No.	<u> </u>	Description
1-0		13 3	5/16"whit x 1" long CSK head screw Extra Head "ditto"	189 190		2	" whit R.H. nut (Bottom head and Front side head)
171	B-1033 111	4	Thrust end dustcap			2	" whit L.H. nut (Top head and
• • • •	5-1-1,221 11	i	Extra head "ditto"			٤	Fence side head)
172		4	Hoffman 145 bearing	~() ·		1	" whit R.H. nut (Extra head)
		i	Estra head "ditto"	190		4	1/8" gas straight grease nipple
173		2	Extra head "ditto" " BSF 35" angle grease nipple	150		1	Extra head "ditto"
		-	(Top and Bottom heads)	191		4	5/15" woodruff key
		1	Extra head "ditto"	131		i	Extra head "ditto"
		2	" BSF Straight grease nipple	192	B-1056/220	2mir	Standard knives for horizontal blocks
			(Side heads)	_	B-1056/381	2pair	Standard knives for vertical blocks
174		12	" whit x 5/8" long countersunk		B-1056/220	loair	Standard knives for extra head
			head screw		A-1033 / 234	16	Square cutterblock bolt
		3	Extra head "ditto"			4	Extra head "ditto"
E 75	C-1056/14	· 4	Spindle quill (state head required	194	A-1033/226	16	Square cutterblock washer
			(or)			4	Extra head "ditto"
		1	Extra head "ditto"	195	A-1033/225	16	Square cutterblock nut
176	A-1033/59	12	Springs for spindle end float			4	Extra head "ditto"
_		3	Extra head 'ditto"	196	B-1056/143	2	Top and bottom head square cutter-
177	B-1056/89	4	Float end inside dust cap				block
		1	Extra head "ditto"		B-1056/142	2	Side head square cutterblock
178		4	3/16" dia x 14" long groverlok spri		B-1056/143	1	Extra head square cutterblock
			dowel	197		1	Adjusting spanner for circular cutter-
100		1	Extra head "ditto"	•	- 1050 1115		block Cutters (Special)
179		4	Hollman 135 bearing	198	C-1056/145	2	Top and bottom head circular cutter-
180	B-1033/13	1 4	Extra head "ditto"		- *****		block (Special) Side head circular cutterblock -
180	8-1022/12		Float end outside dust cap Extra head "ditto"		C-1056/144	2	
181	A-1056/146	1 4	Locking cone for cutterblock		G 1056 /1/5	1	(Special) Extra head circular cutterblock -
101	W-1030, 140	1	Extra head "ditto"		C-1056/145	1	(Special)
182	B-1056/353	_	Top and bottom head spindle adapte	or 199		32	No. 2 adjusting nuts (Special)
104	D-10307 555	4	(State head)	199		8	Extra head "ditto" (Special)
	B-1056/354	2	Side head spindle adaptor (state he	ad) 200		32	No. 2 Adjusting Screws (Special)
	B-1056/353		Bottom head spindle adaptor	200		8	Extra head "ditto" (Special)
	,	_	(Extra head)	201	A-1033/221	44	" whit wedge screws (Special)
183		4	5/16" whit x ½" long socket head			10	Extra head "ditto" (Special)
			grubscrew	202	A-1056/221	4pair	Knives for horizontal head circular
		1	Extra head "ditto"				cutterblock (Special)
184	A-1056/352	2	Cutterblock locknut R.H.thread		A-S-164	4pair	Knives for vertical head circular
			(Top and fence side head)			-	cutterblock (Special)
		2	Cutterblock locknut L.H. thread		A-1056/221	2pair	Knives for extra head circular
			(Bottom and front side head)				cutterblock (Special)
		1	Cutterblock locknut L. H. thread	203	A-1033/217	16	Circular cutterblock wedges (3%"
			(Extra head)	•			long Special)
185	A-1056/312		Washer for spindle	•		4	Circular cutterblock wedges (34"
100	0 1070 (140	1	Extra head "ditto"				long Extra head)
186	C-1056/140	2	Top and bottom head spindle (State head)		A-1033/218	4	Circular cutterblock wedges (1½" long Special)
	C-1056/141	2 .	Side head spindle (State head)		A-1033/218	2	Circular cutterblock wedges (1½"
	C-1056/140		Extra head spindle			-	long Extra head)
187	B-1056/39	4	Spindle pulley		A-1056/285	4	Circular cutterblock wedges (5"
	-	1	Extra head "ditto"		•		long Special)
188	A-1033/58	4	Spindle washer	www.DaltonsWadkin.cor	A-1056/285	2	Circular cutterblock wedges (5"
		1	Extra head "ditto"	WWW.Daitons Wadkin.com			long Extra head)

# www.Daltons YOUP CON BOTTOM MOTOR MOUNTING ASSEMBLY

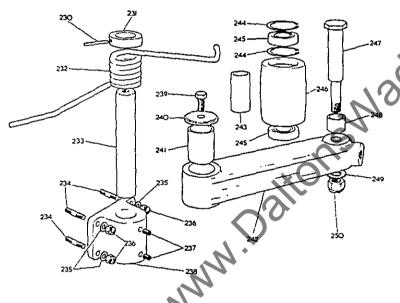


Ref No.	Part No.	No.Off	Description
210		1	Brook motor, frame D132Sb, 10HP 3,000 rpm foot mounted terminal box at 9 o'clock, 50 cycles (3,600 rpm, 60 cycles)
211		2	3/8" whit x ½" long socket head grubscrew
212	B-1056/36	1	Top head motor pivot bracket
213	•	2 2	'spring washer
214		2	i" spring washer i" whit x 1 i" long socket head capscrew
215	B-1056/35	1	Top head motor bracket
216	A-1056/66	1	Top head motor pivot pin
217		1	3/8" whit x \$" long socket head grabscrew
218		1	10mm wide x 21" long key
219		1	3/8" whit x 3/8" long socket head grubscrew
220	B-1056/38	1	Motor pulley
221	•	2	y" washer
222		2 2	I" whit x 2" long stud
223		2	I' whit aerotight nut.

NOTE:-

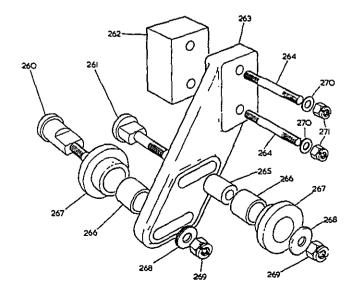
When ordering replacement parts quote part no. and serial number of the machine.

# JOCKEY PULLEY ASSEMBLY



	Ref No.	200	W. 64	
	KEL NO.	Part No.	No. Off	Description
		$\wedge$		In at the second second
	230		1	dia x 2" long groverlok dawel
- 1	231 232	A-1056/241	1	Collar for jockey arm pivot pin
		D-1056/246	1	Spring for side head belt tension
	233	B-1056/76	1	Jockey arm pivot pln
	23		4	3/8" whit x 1 2" long stud
	235		4	3/8" washer
	236		4	3/8" whit aerotight nut
":	237		2	1/8" gas x 1" long socket head
				grubscrew
:	238	B-1056/240	1	Side head lockey arm pivot bracket
:	239		1	" whit x I" long hexagon head bolt
:	240	A-1056/342	1	Washer for jockey arm
	241		1	1 bore x 1 o/d x 2" long oilite
				bush
:	242	C-1056/49	1	Jockey pulley arm
	243	A-1056/77	i	Jockey pulley distance piece
		11 10-0, 11	_	1,13/16" long
	244	No. 5000 / 208	2	52mm Truare internal circlip
	245	No.5000/206 Fischer	_	•
		DN - 205	2	Sealed for life bearing
	246	B-1056/48	1	Jockey pulley
	247	B-1056/85	1	Side head jockey pulley bearing pin
	248	A-1056/77	1	Jockey pulley distance piece
				1.13/32" long
	249		1	5/8" washer
	250		1	5/8" whit aerotight nut
		NOTE:-		•

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

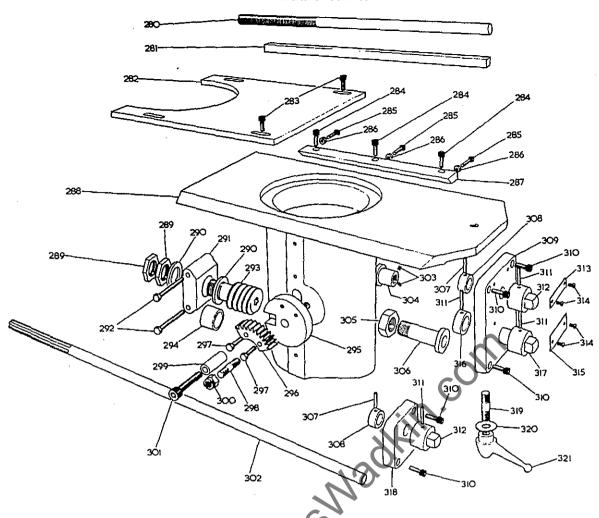


# CHAIN TENSIONER ASSEMBLY

Ref. No.	Part No.	No. Off	Description
260	A-1056/264	1	Feed chain tension pin for rear roller
261	A-1056/231	1	Feed chain tension pin for front roller
262	B-1056/234	1	Feed chain tension bracket packing piece
263	C-1056/230	1	Feed chain tension bracket
264	•	2	3/8" whit x 5½" long stud
265	A-1056/265	1	Feed chain tension bearing bush
266	•	2	1" bore x 1 " o/d x 1" long oilite bush
267	A-1056/232	2	Feed chain tension roller
268	•	2	½" washer
269		2	I' whit aerotight nut
270		2	3/8" washer
271		2	3/8" whit aerotight nut

NOTE:-

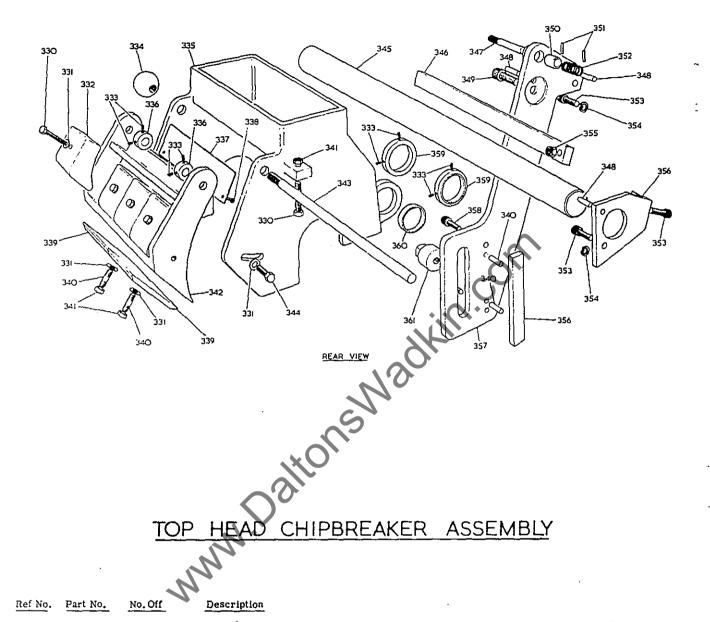
When ordering replacement parts quote part no. and serial number of the machine.



# FENCE SIDE HEAD ASSEMBLY

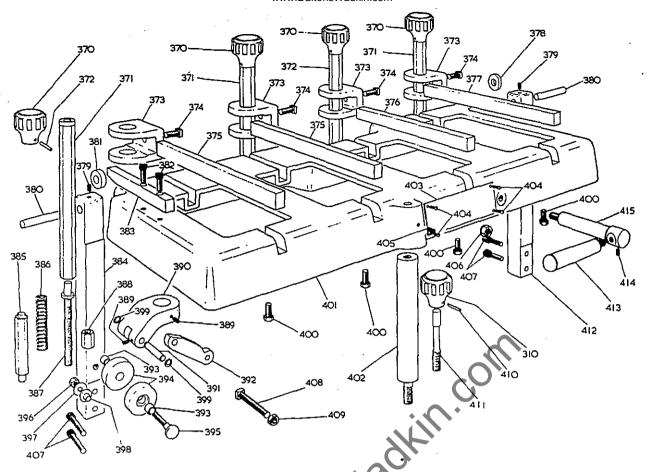
					•		
Ref. No.	Part No.	No. Off	Description	Ref. No	Part No.	No.Off	Description
280	B-1056/99	1	Front side head lateral adjusting	299	A-1056/78	2	Side head R & F peg bush
	•		screw	300	•	i	½" whit aerotight nut
281	A-1056/82	1 -	Fence side head locking bar 16"long	301		1	whit x 2" long socket head capscrew
	•	1	Front side head locking bar 173"long	302	B-1056/44	1	Fence side head vertical adjustment
282	B-1056/165	1	Bedplate for fence side head		•		Shaft
	C-1056/166	1	Bedplate for front side head			1	Front side head vertical adjustment
283	•	2	5/16" whit x 3" long socket head				shaft
			capscrew	303		2	$\frac{1}{4}$ " whit x $\frac{1}{2}$ " long socket head grub-
284		3	3/8" whit x 4" long socket head				screw
			capscrew	304	A-1031/58	2	Nut for side head lateral adjustment
285		3	5/16" whit x 1" long square head bolt	305	A-1033/106	2	Nut for side head locking screw
286		3	5/16" whit locknut	306	B-1033/98	2	Side head locking screw
287	B-1056/177	1	Vee strip for fence side head	307		2	3/16" dia x 11" long groverlok dowel
	B-1056/178	1	Vee strip for front side head	308	A-1033/259	2	Collar for R & F screw
288	D-1056/16	1	Fence side head slide bracket	309	B-1056/46	1	Fence side head cover plate
		1	Front side head slide bracket	310		6	$5/16$ " whit x $1\frac{1}{4}$ " long socket head
289	A-1056/84	4	Side head R & F worm locknut				capscrew
290	A-1056/123	4	Washer for side head R & F bearing	311		4	3/16" dia x 1½" long groverlok dowel
291	B-1056/92	2	Side head R & F bearing housing	312	A-1056/137	1	Side head lateral adjusting handle
292		2	$5/16$ " whit x $2\frac{1}{2}$ " long hexagon head			1	Side head vertical adjusting handle
_~			bolts		B-1056/195/D	1	Instruction Plate
293	B-1056/42	2	Side head R & F worm	314		4	4" self tapping screw No. Z.6
294		2	1" bore x $1\frac{1}{4}$ " o/d x $1\frac{1}{4}$ " long oilite		C-SK-528/D	1	Instruction Plate
			bush		A-1033/261	2	Collar for side head lock
295	B-1056/98	2	Side head vertical R & F bracket	317	B-1056/138	1	Side head locking handle
296	B-1056/43	2	Side head R & F quadrant	318	B-1056/45	1	Fence side head bearing plate
297		2	$5/16$ " whit x $1\frac{1}{4}$ " long hexagon head	319		1	$\frac{1}{2}$ " whit x $1\frac{3}{4}$ " long stud
			bolts	320 321		1	½" washer
298		1	$\frac{1}{2}$ " whit x $1\frac{3}{4}$ " long stud	321		1	Adjustable handle 5/8" whit.
			NOTE:-				

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



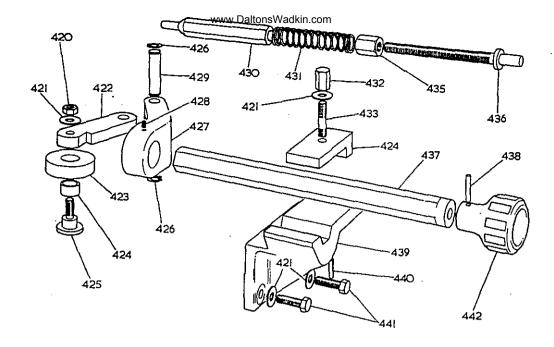
Ref No.	Part No.	No. Off	Description				
330		5	3/8" whit x 2½" long hexagon head	348		5	5/16" dia x 5/8" long fluted dowel
			bolt	349	•	1	$\frac{1}{2}$ " whit x $1\frac{1}{4}$ " long socket head
331		7	3/8" washer				capscrew
332	B-1056/91	4	Weight for top head chipbreaker	350		1	$\frac{1}{2}$ " i/d x $\frac{3}{4}$ " o/d x 5/8" long oilite
333	•	8	1" whit x 3/8" long socket head				bush
			grubscrew	351		2	3/16" dia x 1/4" long groverlok dowel
334		1	$1\frac{1}{2}$ " dia plastic ball, $\frac{1}{2}$ " whit	352	A-1041/18	1	Spring
335	C-1056/13	1	Top head guard	353		3	3/8" whit x 1" long socket head
336	A-1056/124	2.	Collar for chipbreaker handle				capscrew
337	A-1056/193	1	Deflector for top head chipbreaker	354	•	2	3/8" spring washer
338	·	3	twhit x 3/8" long round head screw	355		1	3/8" whit aerotight nut
339	A-1056/189	2	Top head chipbreaker shoes	356	B-1056/366	1	Top head pressure inner support
340	·	2	3/8" whit x 1" long stud	•	•		plate
341		3	3/8" whit nut	357	C-1056/365	1	Top head chipbreaker support plate
342	C-1056/94	1	Top head chipbreaker	358	•	2	5/16" whit x 14" long socket head
343	A-1056/122	1	Top head chipbreaker handle				capscrew
344	•	1	3/8" whit x 1" long bolt	359	A-1056/125	2	Collar for chipbreaker pivot
345	A-1056/368	1	Top head chipbreaker pivot bar	360	·	2	$1\frac{1}{2}$ " bore x $1\frac{3}{4}$ " o/d x $\frac{1}{2}$ * long oilite
346	B-1056/117	1	Top head pressure adjusting bar				bush
347	A-1056/259	1	Plunger for top head chipbreaker	361	A-1056/136	1	Top head locking nut

NOTE:-



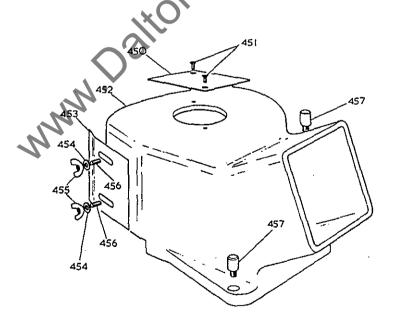
# TOP PRESSURE UNIT ASSEMBLY

Ref. No.	Part No.	No.Off	Description	Ref. No.	Part No.	No. Off	Description
370	Patt. No. 24	5	2" dia plastic handwheets $\frac{1}{2}$ " bore	393		8	$\frac{1}{2}$ " bore x 5/8" o/d x $\frac{1}{2}$ " long offite
- 371	B-1056/107	4	Hexagon tube for pressures 72"long				bush
372		4	No. 3 Taper pin	394	A-1056/105	8	Pressure rollers
373	B-1056/53	4	Pressure locking bracket	395	A-1056/110	4	Roller pin
374		4	$\frac{1}{2}$ " whit x 1" long square head bolt	396		4	3/8" whit nut
375	B-1056/118	2	Pressure adjustment bar 12" long	397		4	3/8" washer
			with tapped holes at 8" Cnts	398	A-1056/109	4	Bush for double pressure rollers
376	B-1056/118	1	Pressure adjustment bar 9.7/8" long	399	No.5100/50	8	'' Truarc external circlip
377	B-1056/118	1	Pressure adjustment bar 12" long with tapped holes at 9\frac{3}{4}"Cnts	400		8	3/8" whit x 1" long hexagon head bolt
378	A-1056/251	1	Distance piece for top pressure	401	C-1056/9	1	Top pressure bracket
	•		bracket in thick	402	B-1056/96	1	Top pressure bracket support rod
379		2	3/8" whit x 3/8" long grubscrew	403	A-1056/252	1	Plate for top pressure bracket
380	A-1056/184	2	Pivot pin for top pressure bracket	404	•	4	No. Z6 self tapping screw 4" long
381	A-1056/251	1	Distance piece for top pressure bracket 3/8" thick.	405		1	1" whit x 1 long socket head grubscrew
382		2	3/8" whit x 1" long socket head	406		1	Y'' whit aerotight nut
			grubscrew	407		4	3/8" whit x 1½" long socket head
383	A-1056/247	1	Stop for top pressure bracket				capscrew
384	B-1056/183	1	Support for top pressure bracket	408		1	$\frac{1}{3}$ " whit x $4\frac{1}{2}$ " long square head bolt
	•		(with ½" whit hole)	409		1	i" whit locknut
385	A-1056/104	4	Plunger for top pressure 4½" long	410		1	3/16" dia x 1" long groverlok dowel
386	A-1056/113	4	Spring for top pressure	411	A-1056/260	1	Top pressure bracket locking handle
387	A-1056/102	4	Pressure adjusting screw	412	B-1056/183	1	Support for top pressure bracket
388	A-1056/101	4	Pressure adjusting nut		•		(without 1 whit hole)
389		2	$\frac{1}{3}$ " whit x 3/8" long socket head	413		1	4" plastic pull handle 3/8" whit
•"			grubscrew	414		1	5/16" whit x 3/8" long socket head
390	B-1056/55	4	Pressure pivot bracket			_	grubscrew
391	A-1056/108	4	Pressure link pivot pin	415	A-1056/248	1	Handle for top pressure bracket
- 392	A-1056/106	4	Link for pressure		,		



# SIDE PRESSURE UNIT ASSEMBLY

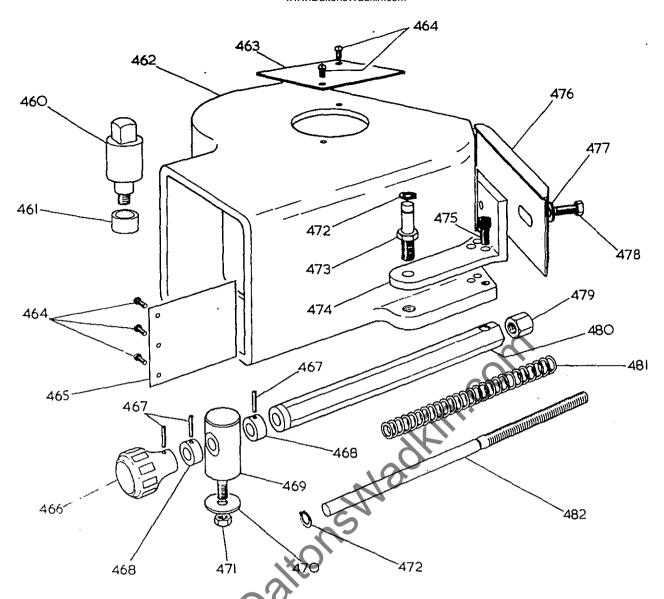
Ref. No	Part No.	No.Off	Description	Ref.No.	Part No.	No.Off	Description
420		1	3/8" whit nut	431	A-1056/113	l	Spring for pressure
421		4	3/8" washer	432	A-1027/29	1	Pressure locking nut
422	A-1056/106	1	Link for pressure	433		. 1	3/8" whit x 14" long stud
423	A-1056/105	1	Pressure roller	434	A-1056/147	1	Clamp for side pressure
424		1	$\frac{1}{2}$ " bore x 5/8" o/d x $\frac{1}{2}$ " long oilite	435	A-1056/101	1	Pressure adjusting nut
			bush	436	A-1056/102	1	Pressure adjusting screw
425	A-1056/100	1	Pressure roller pin *	437	B-1056/107	1	Hexagon tube for pressure 9½" long
426	5100/50	2	½" external circlip	438		1	No. 3 Taper pin
427	B-1056/55	1	Pressure pivot bracket		B-1056/57	1	Side pressure bracket
428		1	1" whit x 3/8" long socket head	440		1	3/16" dia x 1" long groverlok dowel
			grubscrew	441		2	3/8" whit x 1" long hexagon headbolt
429	A-1056/108	1	Pressure link pivot pin	442	Patt No. 24	1	2" dia plastic handwheel 2" bore
430	A-1056/104	1	Plunger for pressure 61 long	,			



# FENCE SIDE HEAD GUARD ASSEMBLY

guard

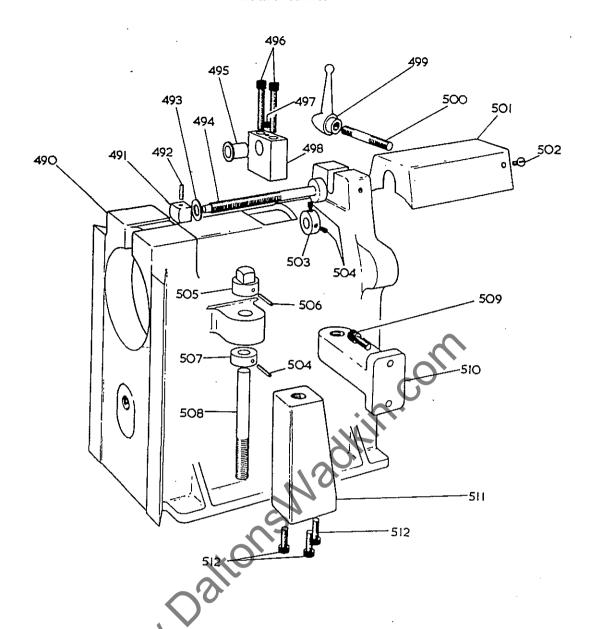
Ref. No	. Part No.	No. Off	Description	
450 451 452 453 454 455 456 457	A-1056/377 C-1056/11 A-1056/266	1 2 1 1 2 2 2 2	Side head guard cover  \[ \frac{1}{4}" \] whit \( \times \frac{1}{2}" \] long CSK head screw  Fence side head guard  Fence side head chip deflector  \[ \frac{1}{4}" \] washer  \[ \frac{1}{4}" \] whit wingnuts  \[ \frac{1}{4}" \] whit \( \times \frac{3}{4}" \] long stud  Location peg for fence side head  Location peg for fence side head  \[ \times \] www.DaitonsWackin.com	NOTE:-  When ordering replacement parts quote part no. and serial number of the machine.



# FENCE SIDE HEAD CHIPBREAKER ASSEMBLY

Ref. No.	Part No.	No.Off	Description	Ref. No.	Part No.	No. Off	Description
460	A-1056/151	1	Front side head guard pivot	471		1	3/8" whit nut
461	•	1 .	$\frac{3}{4}$ " bore x 1" o/d x 5/8" long	472	No.5100/50	2	1 Truarc external circlip
			oilite bush	473	A-1056/153	1	Side head guard pivot pin
462	C-1056/10	1	Front side head guard	474	C-1056/111	1	Front side head chipbreaker
	A-1056/377	1	Side head guard cover		<b></b>		bracket
464	, , , ,	5	$\frac{1}{4}$ " whit x 3/8" long round	475		1	3/8" whit x 3 long socket
465	A-1056/267	1	head screw Front side head chip	476	B-1056/258	1	head capscrew Front side head chipbreaker
			deflector				shoe
466	Patt No. 24	1	2" dia plastic handwheel	477		1	3/8" washer
			½" bore	478		1	$3/8''$ whit $x \frac{3}{4}''$ long hexagon
467		3	3/16" dia x 1" long grover-				head bolt
			lok spring dowel	479	A-1056/249	1	Side head chipbreaker
468	A-1056/157	2	Front side head chipbreaker		•		adjusting nut
	•		locating collar	480	A-1056/152	1	Side head chipbreaker tube
469	A-1056/238	. 1	Front side head chipbreaker	481	A-1056/250	1	Side head chipbreaker spring
	•		anchor bar	482	A-1056/158	1	Side head chipbreaker
470	A-1032/22	1	Washer		,		adjusting screw
			NOTE:-				

NOTE:-



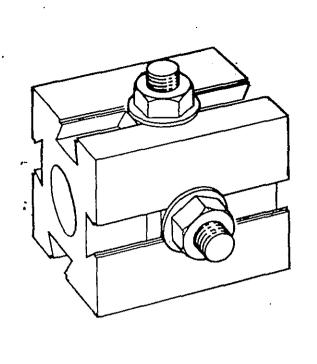
# BOTTOM HEAD ASSEMBLY

Ref. N	o. Part No.	No. Off	Description	Ref. No.	Part No.	No. Off	Description
490	D-1056/12	1	Bottom head slide				
491	A-1056/253	ī	Nut for bottom head lateral	504		1	$3/16$ " dia x $1\frac{1}{4}$ " long
400			adjustment screw	505	1 1055 1105	-ā	groverlok spring dowel
492		1	3/16" dia x 3" long grover-	200	A-1056/137	1	Bottom head vertical
493			lok dowel	506		1	adjustment handle
_	. 1050	1	5/8" washer	-		-	$3/16''$ dia x $1\frac{1}{2}''$ long
494	A-1056/126	1	Lateral adjustment screw	507	A 1000 tore		groverlok spring dowel
495	A-1056/348	1	Nut for lateral adjustment		A-1033/259	1	Collar for R & F screw
			nut	508	B-1056/120	1	Vertical adjusting screw
496		2	5/16" whit x 2½" long	509		2	3/8" whit x 1" long socket
			socket head capscrew				head capscrew
497		1	4" whit x 4" long socket	510	B-1056/47	1	Extra head vertical
		-	hand and a long socket				adjustment nut
498	B-1056/121	1	head grubscrew	511	C-1056/229	1	Bottom head vertical
499	5 1000/121	:	Lateral adjusting nut		,	•	
500		1	Adjustable handle $\frac{1}{2}$ " whit	512		_	adjustment nut
		1	½" whit x 2" long stud	012		3	3/8" whit x 13" long socket
501	C-1056/114	1	Screw cover	r.,			head capscrew
502		2	4" whit x 3/8" long round	513		2	$5/16$ " whit x $\frac{1}{2}$ " long dog
			head screw				point grubscrew
503	A-1056/127	1					
	/ 121	•	Collar for lateral adjustment				

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

NOTE:-

screw



# www.DaltonsWadkin.com

### CUTTERS FOR SQUARE CUTTERBLOCKS

### FOR TOP & BOTTOM HEADS

1 pair  $6\frac{1}{2}$ " (165mm) long x  $3\frac{3}{4}$ " (95mm) x 3/8" (9.5mm) HSS straight cutters 1056/220

### FOR SIDE HEADS

1 pair  $3\frac{1}{4}$ " (82mm) x  $3\frac{1}{4}$ " (95mm) x 3/8" (9.5mm) HSS straight cutters 1056/381

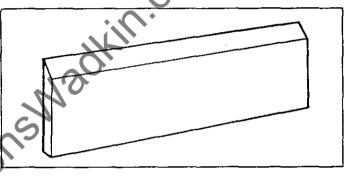
### QUARE CUTTERBLOCKS

### OR TOP & BOTTOM HEADS

 $\frac{1}{2}$  (165mm) long x  $3\frac{1}{2}$  (89mm) square cutterblock, cone seated, 056/143, with bolts nuts and washers.

### 'OR SIDE HEADS

 $\frac{1}{4}^{m}$  (83mm) long x 3½" (89mm) square cutterblock, cone seated, 056/142 with bolts nots and washers



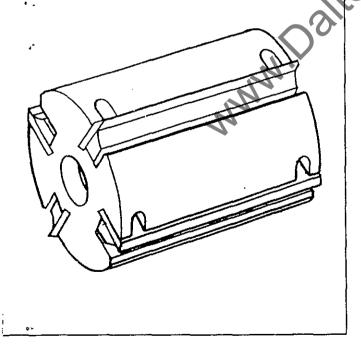
### CUTTERS FOR CIRCULAR CUTTERBLOCK

### FOR TOP AND BOTTOM HEADS

1 set straight cutters for circular cutterblock  $6\frac{t}{2}^{\rm tr}$  (165mm) long A-1056/221

### FOR SIDE HEADS

1 set straight cutters for circular cutterblock  $3\frac{L}{4}^{\prime\prime\prime}$  (83mm) long A-S-164



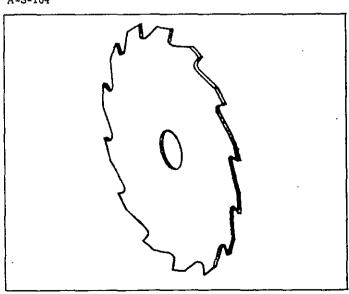
### CIRCULAR CUTTERBLOCKS

### FOR TOP AND BOTTOM HEADS

Four knife cone seated circular cutterblock  $6\frac{1}{2}$ " (165mm) long x  $5\frac{1}{2}$ " (140mm) dia cutting circle 1056/145

### FOR SIDE HEADS

Four knife cone seated circular cutterblock  $3\frac{1}{4}$ " (83mm) long x  $5\frac{1}{2}$ " (140mm) dia cutting circle 1056/144



### SLITTING SAW FOR FIFTH HEAD

1 - 9" (230mm) dia alloy steel slitting saw

1 pair saw flanges for above

www.DaltonsWadkin.com spacing collars for above