

OPERATING INSTRUCTIONS MAINTENANCE AND PARTS LIST BOOK

4;" X 3" PLANER AND MOULDER TYRE BFO

INSTRUCTION BOOK No. B470

IT IS DESIRABLE THAT THIS BOOK BE GIVEN TO THE OPERATOR OF THE MACHINE

NUMBER OF MACHINE

MODIFICATIONS ARE MADE TO THESE BOOKS FROM TIME TO TIME
AND IT IS IMPORTANT THEREFORE THAT ONLY THE BOOK SENT
WITH THE MACHINE SHOULD BE USED AS A WORKING MANUAL

BB

4½ x 3" PLANER AND MOULDER BFO

	Top head ver adjustment h	indwheel	ad lateral	Bottom head lateral adjustment lever	
	Top head later lock	adjusts	ment	Gearbox	selector
5th head it & F bandle	Side head pressure arm lock				er bracket ew
Ton presence				Pressu	ure adjustment
Fifth head lateral	1	9 1/1	Wadki BURSSEE		2
7			· mz		nfeed table R & F
				Top ladjus	head vertical stment handwheel
Company .					Control panel
		F	NVacIkIIA	adjustment Fence side	
Front side head	1	(8)		Fence side head	THE STATE OF THE S
Front side head				vertical lock ront side head & F lever	
		BFO INSTRUC	TIONS		
Maximum size of timb Minimum length of tim Vield of feed rolls, pr	per admined about	SPECIFICAT 4 ³ / ₄ " x 3 ¹ / ₄ " 9"	ION	120 x 90mm 220mm	
escept on maximum at Length of cutterblocks Length of Cutterblocks Cutting circles :-	ze stock for horizontal heads	3/8" 4½" 3¼" maximum moul	dina	10mm 120mm 90mm	
	Circle	Dia			
Bottom Head Top Head	5"	5¾''	127mm 127mm	146mm 178mm	
Front side head	5"	6 ¹ / ₄ "	127mm	159mm	
8th head :- Top	5"	ייד	127mm 127mm	159mm 178mm	
Bottom Note: Top and front	5"	711 3 mills 411 (101) di	127mm	178mm (229mm) dia can be used	200
6th head when in top po	side head can be litter osition only.	1 with 4" (101mm) di	a. cutterblocks. 9"	(229mm) dia can be used	on
Diameter of feed rolls Feed speeds per min v		2.7/8**		73 mm	
speed motor Feed speeds per min v		20,35 & 50ft	6,	10 & 15m	
speed motor Motor for first top and Motor for side heads		0, 17½, 20, 25, 35 & 50	Oft 3, 7½HP 5HP	5, 6, 7 5, 10 & 15m	
Motor for 5th head Feed motor, single sp	eed		5HP 3HP		
Spindle speeds, all her Spindle and diameter,	ads	11"	5,000 rpm	32mm	
aprillate and diameter,	optional	30mm		o anni	
Wane to be	-	d Machine www.DaltonsWad		ead Machine	
Finor space Approx. net weight	72" × 35" 24641bs	www.DaltonsWad	mm 84" x 35" 26881bs	2,130 x 890mm 1219kg	
Approx. gross weight	31921ba 1060u B	1448kg	3584lbs	1626kg	

₹TALLATION

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

RING DETAILS

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

Points to note when connecting to power supply:-

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

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

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

Connect the line leads to the appropriate terminals. See fig. or wiring diagram.

Check all connections are sound.

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

ur Head Machine

Itago

mage	Fliabe	n.P	Copper Wire	Amps
0	3	71/5/3	17	65
0,420	3	71/5/3	18	45
0	3	71/5/3	19	38
ve Head M	lachine			
ltage	Phase	HP	SWG Tinned	Amps
0	2	71.15/9/	Copper Wire	75

71/5/3/5

UNDATION

0,420,550

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

18.

45

BRICATION

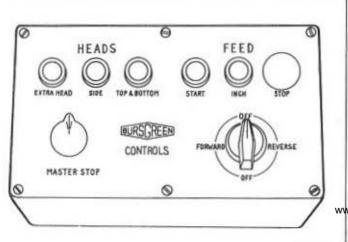
Lubrication should be carried out as shown in Ug. 4.

It is advisable to keep all bright parts covered with a thin film oil to prevent rusting.

IST EXHAUST SYSTEM

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

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



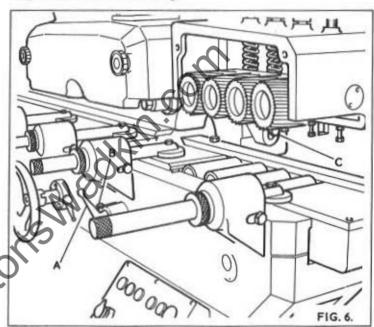
OPERATING INSTRUCTIONS FOR ELECTRICAL CONTROLS

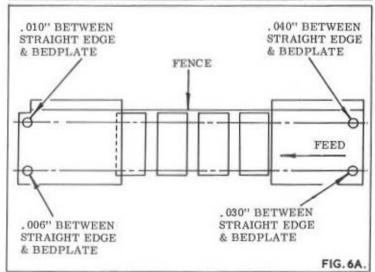
All the electrical controls are conveniently placed at the in-feed end of the machine. The panel contains the following control buttons,

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.



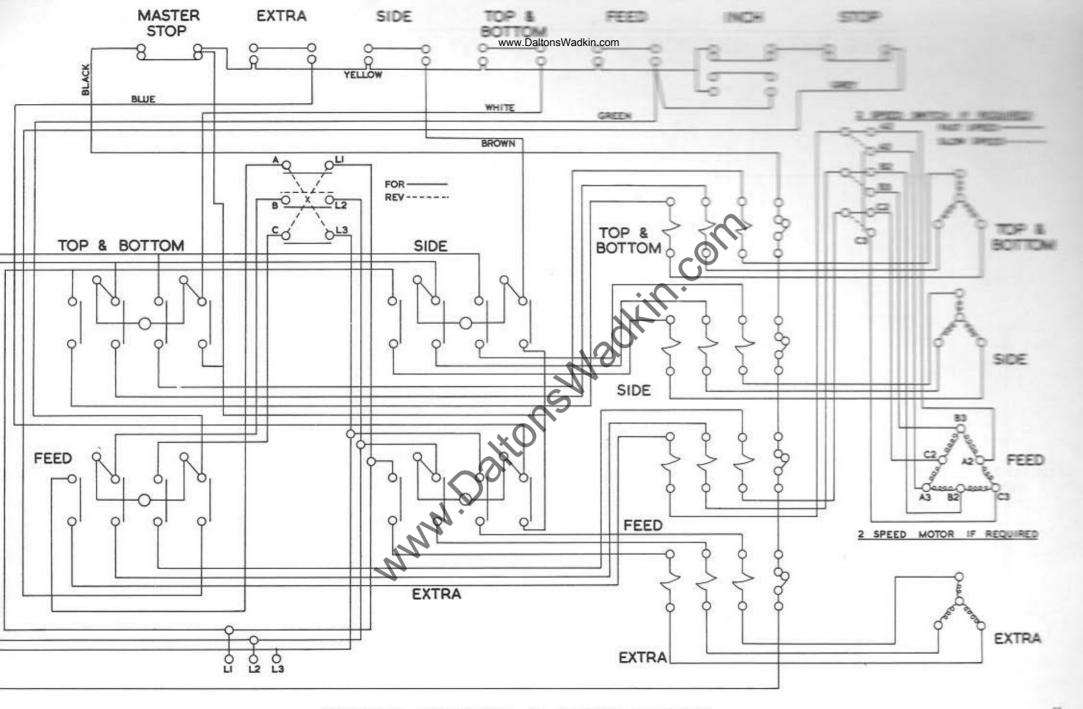


INFEED TABLE.

The infeed table is fitted with renewable bedplates and four ball bearing mounted rollers. The table has a total movement of 5/16" (8mm) 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".

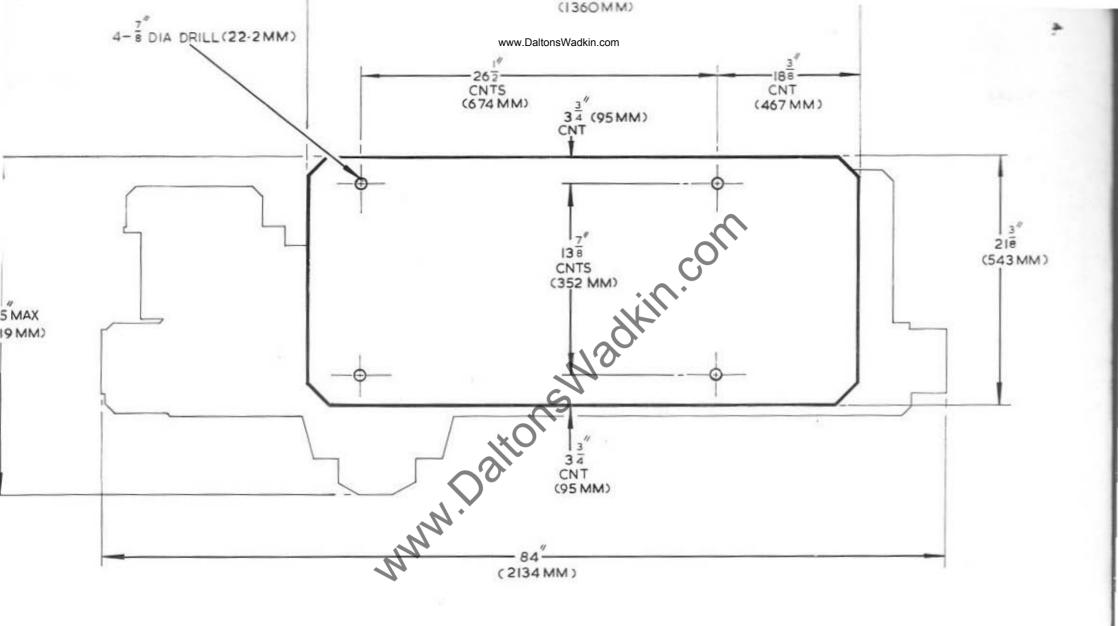
The ball bearing mounted rollers are set directly below the power driven feed rollers to reduce the friction on the feed to a minimum.

www.DaltöňsWadkiňlcom are set at works in accordance with dimensions shown in fig. β(a). The rollers can be adjusted by means of the 6 grubscrews in the side plates carrying these rollers. Care should be taken to ensure that the rollers are set to the

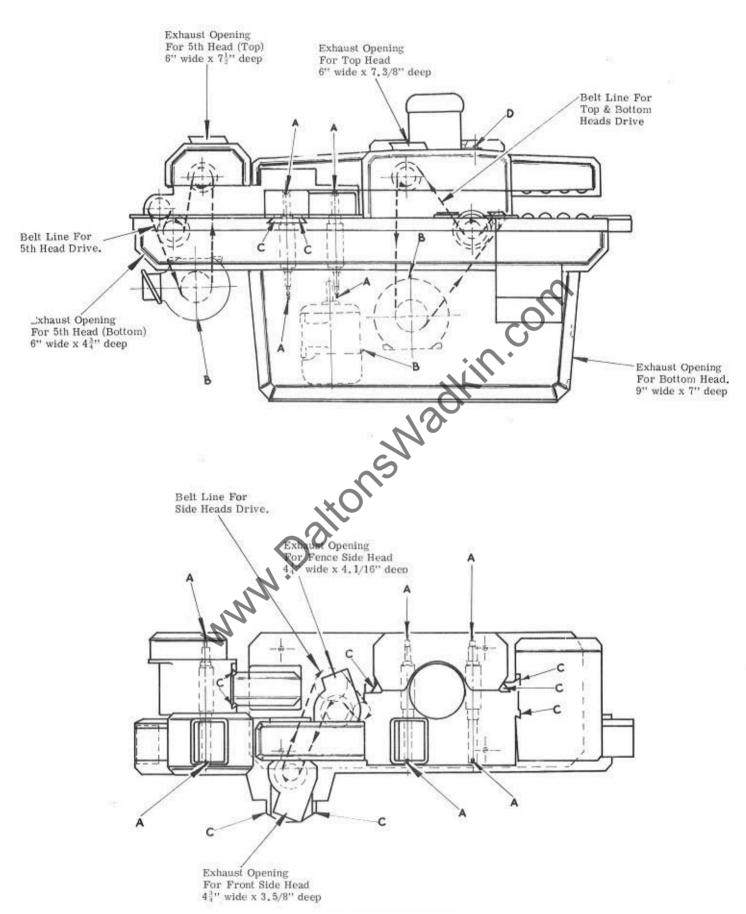


WIRING DIAGRAM 3 PHASE SUPPLY

FIG 2.



FOUNDATION PLAN FOR 42 X 3 MOULDER TYPE BFO.



LUBRICATION INSTRUCTIONS

ONE SHOT OF GREASE PER WEEK.

POINT "A" POINT "B" POINT "C" ONE TURN OF GREASE BOTH ENDS OF MOTOR PER MONTH. OIL SLIDES WEEKLY.

TCP UP TO WWW. Daitons Wadkin.com USING EP LUBRICANT.

TYPE OF GREASE PECOMMENDED: SHELL ALVANIA 3.

TYPE OF CIL PECOMMENDED, POINT C: CASTROL PERFECTO R.R.

> WORKS

ITION WHEN DING-PARALLEL

The feed rollers are chain driven from a 3 speed gearbox g feed speeds of 20,35 and $50 \mathrm{ft/min}$ (6, 10 and $15 \mathrm{m/min}$) a single speed motor, and feeds speeds of $10, 17 \frac{1}{2}, 20, 25, 35$ $0 \mathrm{ft/min}$, from a two speed motor.

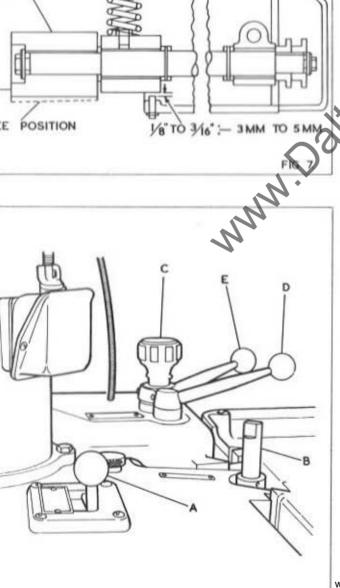
he gearbox is controlled by means of lever "A" in fig. 8 and we speed motor, when fitted, is controlled by a rotary switch is mounted direct to the motor.

The feed chain can be tensioned by means of the adjustable , at rear of machine. Care should be taken when adjusting maion that the feed roller sprockets can move freely when

ir is fed through the machine.

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

he whole feed roller assembly can be raised or lowered endently to the top head bracket by means of the adjusting v "B", in fig. 8, to correspond to the cutting circle being on the top head. Before adjusting the feed roller assembly n hexagon nut "C", in fig. 6 re-lock securely before feeding er through the machine.



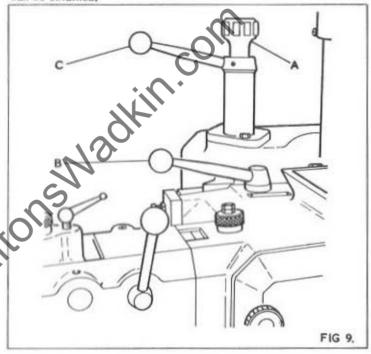
BOTTOM HEAD

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 $x \ 4_3^4$ " (121mm) long and a thin circular cutterblock 6_4^4 " (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 ½" (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 $7\frac{1}{2}\mathrm{HP}$ 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 43"

(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 ½" (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.

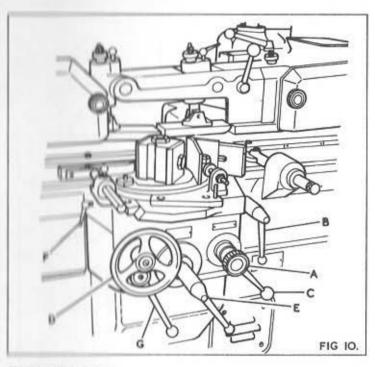
The block fitted to the spindle is 3" (76mm) square x 34"

(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 ½" (13mm) is also provided www.Daltons.Wadkin.com lever "B". Both movements are locked simultaneously by means of lever "C".

The standard cutting circle of the cutterblock is 5" (127mm)

FIG 8.



FRONT SIDE HEAD

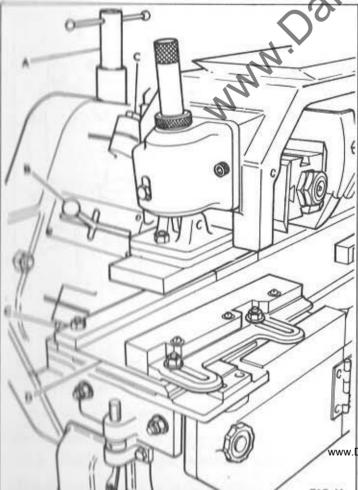
The drive to this head is by a flat belt from the same 5HP motor which drives the bottom head. The spindle end is $1\frac{1}{4}$ " (10mm) wide keyway and runs at a speed of 5,000 rpm.

The block fitted to the spindle is 3" (76mm) square x 31"

(83 mm) long.

The spindle is provided with lateral adjustment of 4,3/8" (111 mm) by means of screw through handwheel "D" in fig. 10 vertical adjustment of \(\frac{1}{2} \)" (13 mm) 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.



EXTRA HEAD

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_4^{11} (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

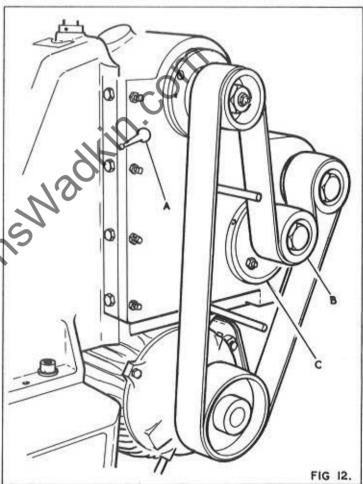
 $\frac{3}{4}$ " (121mm)long.

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

he 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, and the belt. Unlock hexagon head bolts "C" in fig. 11.

 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.

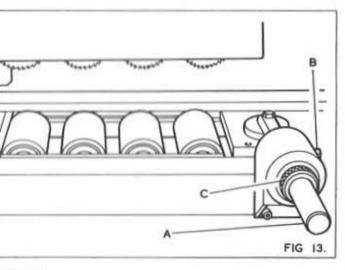
 Move handle "B" in the opposite direction to that in operation 2 and withdraw the dummy quill "C" in fig. 12 which also carries a jockey pulley.

4. Replace the dummy quill "C" in the position which is not 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.

5. Replace spindle assembly in the required position again 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.

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

7. Replace belt, as shown in fig. 12 and re-tension belt by the jockey pulley on the dummy quill "C" and then replace belt guard.



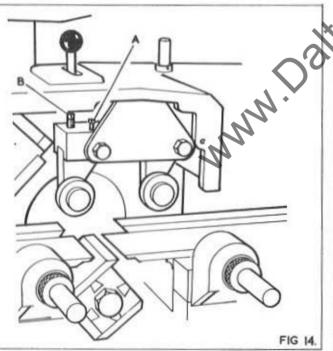
SSURES

t side pressure

The first side pressure is mounted on in-feed table before eed works as shown in fig.13. The roller is mounted on the stment bar "A". To set roller loosen hexagon nut "B", and e roller forward a further "" (6mm) and lock nut "B". This ld give the necessary pressure required for a good finish, but ld further tension be required this should be done by adjusting murled knob "C". The spring loaded roller when correctly vill allow for a maximum variation in timber of 3/8" (10mm) out altering the setting of the pressure unit, except on mum size stock.

nd Side pressure before Bottomhead

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



PRESSURES OVER BOTTOM HEAD

'wo spring loaded roller pressures straddle the bottom head. ressures are mounted on circular bars secured to the main asting which enables the pressure unit to be moved in or out t varying widths of timber. To slide pressure unit, loosen e head bolt "A" in fig. 14 and position where required and ck in position.

he spring pressure can be increased or decreased on each by adjusting the square head fine thread screw "B". he rollers will yield for a maximum variation in timber of 10mm), except on maximum size stock.

PRESSURE BEFORE FIRST TOP HEAD

his side pressure is identical to the first side pressure and



TOP PRESSURE AFTER TOP

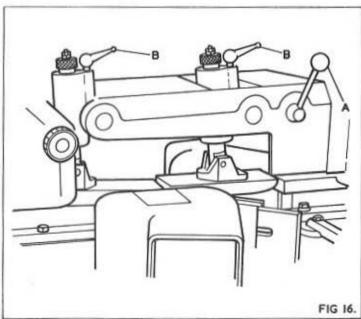
The pressure is inputed to the main top head casting and moves up and down with the top spindle unit. To adjust the position of the pressure pad lightst the nuts "A" in fig.15. To increase the spring pressure adjust knurled knob "B".

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

A stee 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 s adjustable in exactly the same manner.



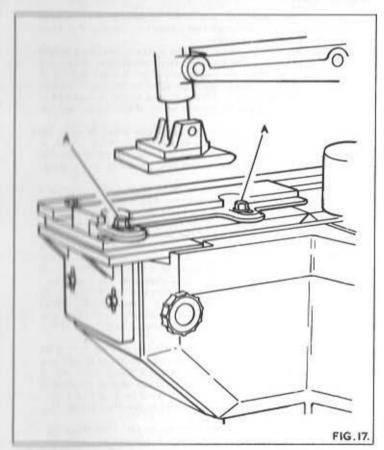
PRESSURES BETWEEN SIDE HEADS

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

www.Dalphswadkin.com^B". pressure after the top head.

Steel pressure shoes are available as an optional extra, if

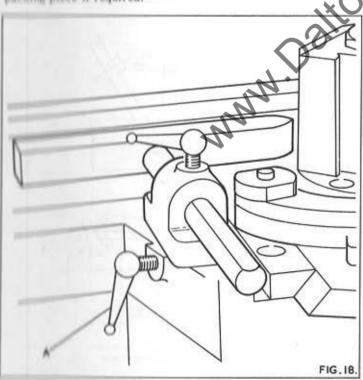


WITH THE SHUTE AFTER NEAR SIDE HEAD (4 Head Machine)

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

The frost of this pressure plate is drilled to take a

packing piece if required.



THE WHEN THE AFTER NEAR SIDE HEAD (5 Head Machine)

This pressure is the solid type. The unit slides on a bar and is looked in position by ball lever screw "A", in Fig. 18,

The front of this pressure plate is drilled to take a wood

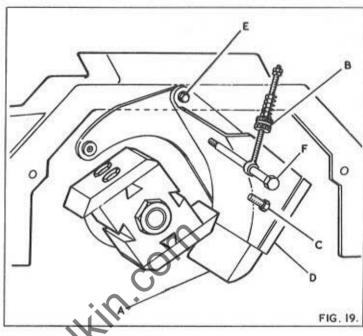
WWW.DaltonsWadkin.com

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



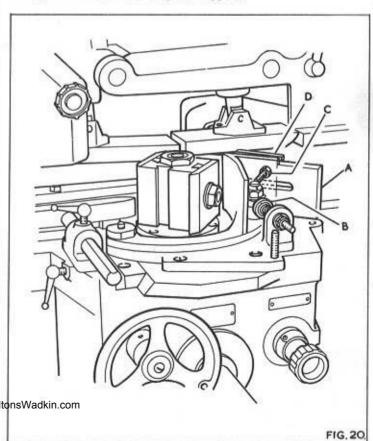
TOP HEAD CHIPBREAKERS

Chippreakers 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 " in Fig. 19 is fitted which is easily renewed.

oring pressure can be applied to the shoe of the chipbreaker 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 toe piece is available as an optional extra, if required, to replace the hardwood toe piece supplied.



HEAD CHIPBREAKER

he chipbreaker fitted to the front side head is secured to the the front and so moves with the whole head unit, the first and so moves with the whole head unit, the first and the place "A" in fig. 20 is fitted which can easily be a solution of the chipbreaker that the basis "B". The hardwood toe piece is

inustable independently to the chipbreaker bracket by means

stoot too place is available as an optional extra, if required, lace the hardwood toe piece supplied,

the fewer is recurred to the infeed table bracket and has a distinct of ''' (19mm). This fence is to be set parallel to trai fence and behind same by the required amount of cut also on the rebate block fitted to the first bottom head.

HAL PENCE

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

EED FENCE

his fence is secured to main table after the rear side head is a total adjustment of $\frac{1}{4}$ " (6mm). This fence is to be rallel to the central fence and in front of same by the ed amount of cut to be taken on the rear side head. It is mportant that the rear side head cutting circle is in line in fence.

LATES

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

READS

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

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

TABLE

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

EED TABLE

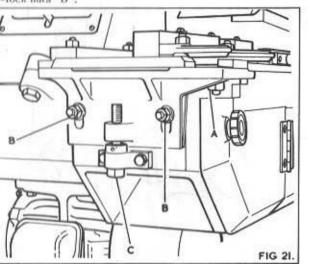
Machine :-

Machine :-

is bedplate goes from the front side head to the and table.

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

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



www DaltonsWadkin com

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. 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.

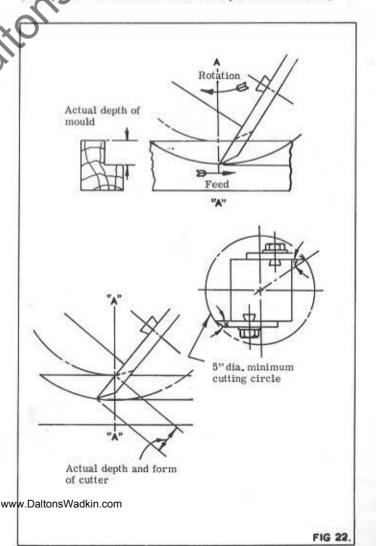
To obtain the correct cutter form for a shaped mould without using the moulders rule, it is necessary to plot this out as shown.

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

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. 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 repeals. This will ensure uniformity on all future runs.



Mouldera Bute

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

The form of a cutter by use of the moulder's rule it is a sure to draw the full size shape of the mould on tracing state 1/6" (3mm) squares as shown in Fig. 24. This is the state 1/6" (3mm) squares rule and projected across, which must be joined to give the state 1/6" (3mm) overlap beyond the edge of the mould.

Culture: Circleding

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 mount of soluble oil and water should be handy and the mills be held in this occasionally to cool them. This mills will also prevent rusting. Cutters should never be allowed to be be allowed to be

the control of the cutting angle of 35° for most cutters should be said as this gives the correct strength of the cutting edge.

When below grinding is carried out, the angle of the cutting edge, when below grinding is carried out, the angle of the cutting edge, and the lept as near 35° as possible, see Fig. 25 (A) and (B).

to the principal is recommended whenever possible, as a to the land is more easily obtained when hand lapping. When the total is more a flat ground cutter, a good edge is more to the tendency to rock the stone and leave a

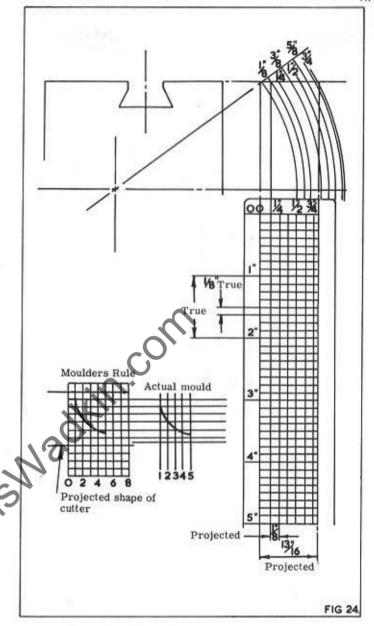
third open grain wheels should be used and should not be

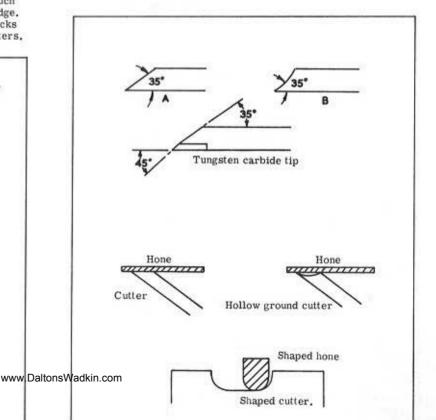
About 18" (304mm) diameter wheels used down to 10" (254mm)
are the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and an economic life 8"
[88] the last radius for a hollow grind and a hollow grin

arbide tipped cutters should be purchased to the steel and re-ground only as necessary. In this case with a diamond impregnated wheel at 45° as shown, the steel position and the steel with a diamond impregnated wheel at 45° as shown, the steel backing as this clogs at the causes excessive heat. Where available a copious the steel backing as this clogs that should be used. They may be honed with a diamond the cutter becomes dull, until a regrind is necessary.

blanks sent out by us are ground only, and, if user that cutters, require honing with a 142 carbo regular produce at razor sharp edge before commencing to the will ensure a good finish on the wood and an easy feed, and produce the job past the cutters. Honing should be done that if or rotary motion on the cutter, using a little to "litte" to the stone. The honing stone is a much the grinding wheel and leaves a sharp keen edge. The honing stones of different shapes, e.g. round sticks the will be found helpfel in moning shaped cutters.

Correct form of nutter and the state of mould and the state of the st



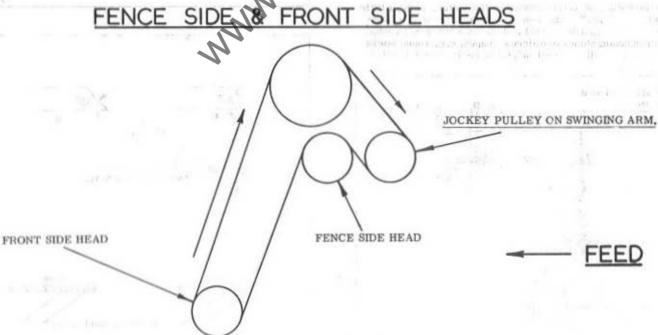


BELT DRIVE LAYOUT

FRONT SIDE VIEW EXTRA HEAD

TOP & BOTTOM HEADS

TRA READ WHEN USED IN TOP SITION OR DUMMY QUILL - TOP HEAD CKEY PULLEY BOTTOM HEAD JCCKEY PULLEY MMY QUILL OR EXTRA HEAD MOTOR PULLEY EN USED IN BOTTOM POSITION



HEADS

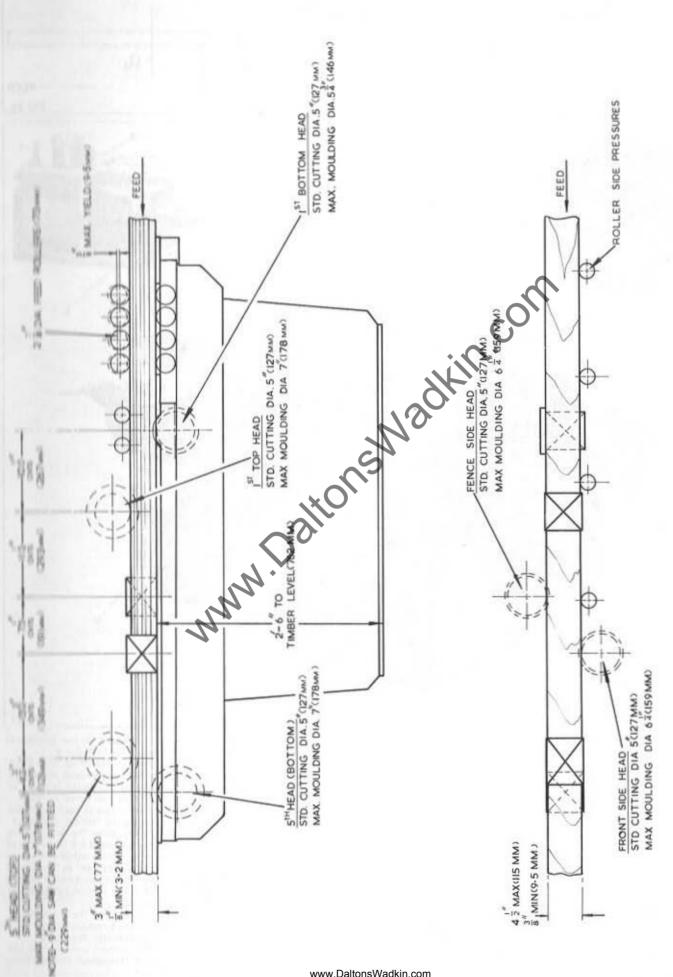
I" long x 2" wide meteor flat belt, double faced type S. Il frequencies)

i'long x 2" wide meteor flat belt double faced type S. all frequencies)

EXTRA HEAD

1 - 62" long x 2" wide meteor flat belt double faced type S. (50 cycle)

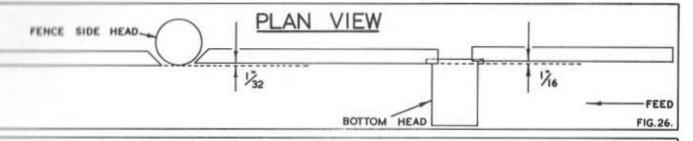
www.DaltonsWadkin.comde meteor flat belt double faced type S. (60 cycle)

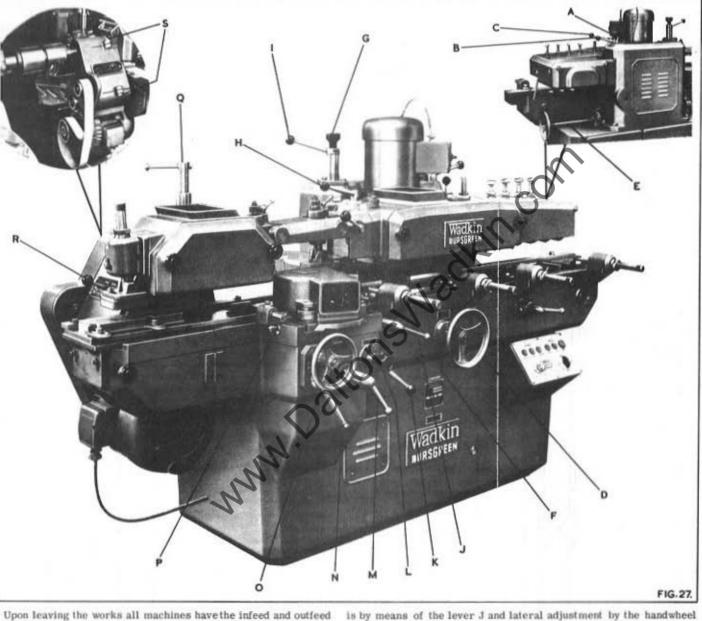


BFO MOULDER - TYPE 3 4 2 × FOR CAPACITY DIAGRAM

www.DaltonsWadkin.com

INSTRUCTIONS UP MACHINE SET





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

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

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

Both movements are locked simultaneously by lever K. Similar procedure is then carried out on the front side head

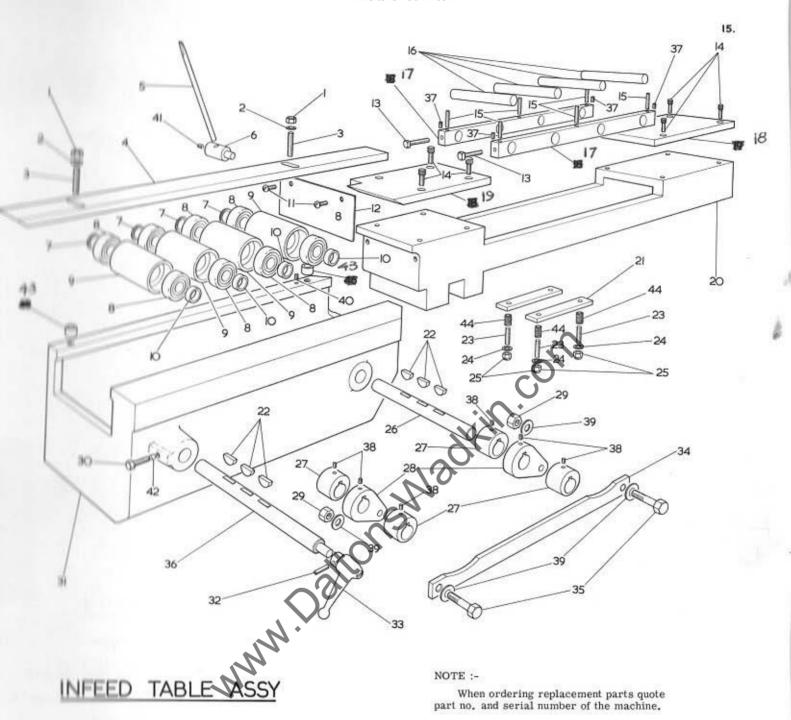
and this can now be set to the sample stock. Adjustment vertically is by lever M and locked by lever N. Lateral movement is made by the handwheel O which in turn is locked by the ball lever screw P.

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.

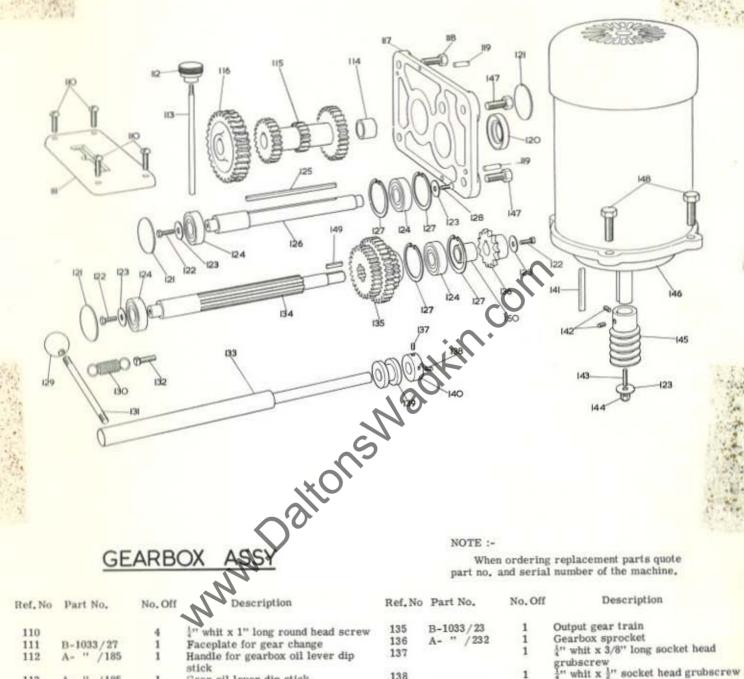
Feed rollers should be adjusted to the correct pressure on the stock so as to give a smooth feeding action throughout the machine, www.DaltonsWadkin.com eviously described.

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



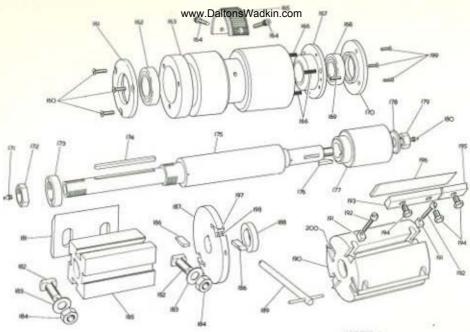
, Ho.	Part No.	No.Off	Description	Ref. No	Part No.	No. Off	Description
		2	3/8" whit nut	24		4	5/16" washer
		2	3/8" B.S.F. washer	25		4	5/16" whit areotight nut
		2	3/8" whit x 13" long stud	26	B-1033/40	1	Under table cam shaft (without
	B=1883/170	1	Infeed fence		31330 TO 180 TO 180 TO		spigot)
	A=1033/930	1	Pointer	27	A-1033/36	4	Under table cams
	A=1033/820	1	Pointer holder	28	A-1033/38	4 2	Under table link for cams
	A=1033/43	4	Under table roller distance piece	29	20	2	3/8" whit areotight nut
			(1/16" thick)	29 30		1	3/8" whit x 3/4" long hexagon headbolt
	HH 8048	0	Fischer bearings	31	D-1033/17	1	Front table bracket
	B=1009/34	4	Under table roller	32		1	3/16" x 1" long groverlock spring
0	A=1033/43	4	Under table roller distance piece				dowel
			(3/8" thick)	33		1	Kipp handle No. 4. 5/8" whit (female)
1		2	" whit x " long round head screw	34	A-1033/39	1	Under table link
1	A=1088/840	1	Infeed table chip deflector	35	A-1033/42	2	Under table links pivot pin
ě.		4	" whit x 1" long square head bolt	36	B-1033/40	1	Under table cam shaft (with spigot)
4		0	5/16" whit x ½" long socket head cap	37	20	4	4" whit x 4" long socket head grubscrew
0		6	" whit x 1" long socket head	38		6	1" whit x 3/8" long socket head grubscrew
0	A=1033/41	4	Under table roller shafts	39		4	3/8" washer
9	10=1000/06	9	Under table roller blocks	40		1	$\frac{1}{4}$ " whit x $\frac{1}{2}$ " long socket head
8	B=1039/108	1	Front bed plate for infeed table www	w.DaltonsW	adkin.com		grubscrew
ii .	B=1033/100	1	Back bed plate for infeed table	41		1	Y'' whit x i'' long socket head
0	D=1033/18	1	Front table				grubscrew
1	A=1038/87	2	Under table retaining strips	42		1	5/16" o/d x 3/8" long brass bot

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8-	erul number of the machine. Off Description	Feet 70 er pivot block (with 5/16" tapped (10)	spring dowel Collar for feed roller 5/16" whit x \(\frac{1}{2}\)" long socket head grubscrew \(\frac{1}{2}\)" z" long feather key 3/8" whit x \(\frac{1}{2}\)" long hexagon head	Feed roller pressure block 1"1/d x 14" o/d x 1" long oilite bush Feed roller spiral fluted only 14" dia feed roller retaining washer 3/8" whit x 1" long hexagon head	bolts 3/8" dia steel ball Feed roller pivot block " spring washer 5/16" whit x 3/8" long socket head grubscrew	grubscrew grubscrew grubscrew 1, 1/8" dia feed roller retaining washer Renolds chain:- 39 links + cranked link + 2 split pins	Renolds chain: - 51 links + crained link + 2 split pins Renolds chain: - 63 links + split pin Red roller spiral fluted and grooved growted # 1 in long hexagon head bolt # 1 in long hexagon head bolt
		No.	4	0 mm 44	2 Off	4888	1 4 4 4 2 Off	1 Off 2 Off 1
The state of the s	NOTE OF THE PARTY	When part no. a Part No.	A-1033/235 B-1033/65	A-1033 / 261	B-1033/80 B-1033/101 A-1002/40	B-1033/65	A-1033/280	B-1033/101
		Ref. No.		82 83 84 85	86 87 89 90		95 97 98	96
	8	WORKS ASSY	3/8" whit nut Collars for feed roller bracket R & F screw	Feed roller bracket K & F screw 3/16" x 14" groverlock spring dowel dowel whit x 5" long stud Chain cover Feed roller pivot thrust screw 3/8" whit x 14" long hexagon head	bolt ''whit x 1 i'' long square headbolt ''whit locknut Feed roller bracket Feed roller pressure spring adjusting screw	Feed roller pressure spring adjusting lock nut Seatings for feed roller springs Feed roller springs Door for feed roller bracket 3/8" whit x 2" long hexagon head	bolts Feed roller bracket R & F nut Feed roller bracket vee strip Feed roller sprocket (19tecth) Feed roller distance piece (7/8"long)	Feed roller pivot bar $\frac{1}{4}$ " x $1\frac{1}{4}$ " long feather key Fred roller distance piece ($1\frac{1}{4}$ "long) $\frac{1}{4}$ " x $2\frac{1}{4}$ " long feather key
	// ° 6 0/ =	No. o	000	-8 8-88		ক কক্নথ		
	www.DaltonsWadkin.com	Part No.	/259	A-1033/110 C-1033/5 A-1033/107	D-1033/21 A-1810/81	A-1810/112 A-1033/9 A-1033/206	A-1033/105 B-1033/102 B-1033/294 B-1033/293	A-1033/108 B-1033/293



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
110		4	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 ½" whit x 3/8" long socket head
112	A- " /185	1	Handle for gearbox oil lever dip stick	137		1	grubscrew
113	A- " /185	1	Gear oil lever dip stick	138		1	1" whit x 2" socket head grubscrew
114	A- " /28	î	Input shaft distance piece	139	A-1033/30	1	Gear change bush
115	B- " /22	î	Input gear chain	140	A-1033/31	1	Gear change collar
116	B- " /73	i	Wormwheel for 3 phase motor	141		1	3/16" x 2" long feather key
117	C- " /8	î	Gearbox Cover	142		2	1" whit x 1" long socket head
118	0- 70	2	3/8" whit x 14" long hexagon head				grubscrew
110		-	Bolt	143		1	$\frac{\Upsilon}{4}$ " whit x $1\frac{1}{4}$ " long stud
110		9	4" dia x 1" long fluted dowel	144		1	4" whit areotight nut
119	W18510239R4	4	Weston Oil Seal	145	B-1033/73	1	Worm for 3 phase motor
120	M10010520164		2" dia welsh washer	146		1	Brook motor, 3HP, 3000 rpm
121		3		210			T.E. F.C. Frame M. 66B, with four
122	* ****	3	4" whit x 1" long hexagon head bolt				lug endshield (50 cycles, 1 speed)
123	A-1033/280	9	Washer for gearbox shaft			1	Brook motor, 3HP, 3600 rpm
124	The second second second	4	Hoffman 120 bearing			_	T.E. F.C. Frame M66B, with four
125	A-1033/274	1	Key for gearbox input shaft				lug endshield (60 cycle, 1 speed)
126	B- " /24	1	Input shaft			1	Brook motor, 2HP/1HP, 3000/
127		4	47mm internal circlip				1500 rpm T.E.F.C. Frame M66B
128	100	1	4" whit x 1" long socket head counter sunk screw				with four lug endshield (50 cycle
129	W. (2) W.	1	1 " dia Plastic Ball, 3/8" whit				2 speed)
150	4 1 70	- 4	without insert			1	Brook motor, 3HP, 3600/1800 rpm
100	A theo ten		Gearchange lever spring				T.E. F.C. Frame M66B, with four
130	A-1029/67	- 1	Gearchange lever spring Gearchange lever handle				lug endshield (60 cycle, 2 speed)
131	A-1002/90A	4		147		2	3/8" whit x 13" long hexagon head
	A-1029/68	1	Gearchange lever spring holder bolt	10.70			bolt
133	B-1033/26	1	Gear Lever Outside the Www.DaltonsWi	adkin com		4	" whit x 1" long hexagon head bolt
134	B-1033/25	1	Output shaft www.Daltonswa	aditi 1.0011		1070	Section of the second section of the second



ASSEMBLY SPINDLE

5/16" whit x 1" long CSK head screw Extra head "ditto" 160 Thrust end dust cap 161 B-1033/11 Extra head "ditto" 180 Hoffman 145 bearing Extra head "ditto" 162 Bearing housing (state head required 163 C-1033/10 4 for) Extra head "ditto" 3/8" whit x 3" long socket head 184 allenscrew Racked quadrant for bearing housing 165 B-1033/15 3 (state head required for) Springs for spindle end float Extra head "ditto" 186 A-1033/59 12 B-1033/12 Float end inside dust cap A-1033/226 107 Float end inside dust cap
Extra head "ditto"
Hoffman 135 bearing
Extra head "ditto"
3/16" x 1½" groverlock dowel
Extra head "ditto"
Float end outside dust cap
Extra head "ditto" A-1033/225 168

170 B-1033/13 1/8" gas straight grease Extra head "ditto" 171 Top head cutterblock locks 172 A-1033/186 (R, H, thread) Metric top head anterblocklocknut A-1033/262 1

1

169

173

170

A-1033/186

A-1033/263

(L.H. thread) Metric Boltom head cutterblock locknut (L.H. thread) A-1033/262 Front side head cutterblock locknut A-1033/187 (R.H. thread) A-1033/263 Metric front side head cutterblock 1 locknut (R, H, thread) Fence side head cutterblock locknut A-1033/187 (L. H. thread)

(R. H. thread) Bottom head cutterolock locknut

Metric fence side head cutterblock locknut (L. H. thread) Cutterblock locknut (R. H. thread) A-1033/244 2 per extra head (state spindle dia) Spindle locknut (L. H. thread) A-1033/45 (1 per front side head, 1 per bottom head) A-1033/45 2 Spindle locknut (R, H, thread) (1 per fence side head, 1 per top

head)

A-1033/45 Spindle locknut (R, H, thread) (1 per extra head Key for horizontal heads 174 A-1033/284 Extra head "ditto" Key for vertical heads 175 C-1033/67 Cutterhead spindle (state spindle end dia and head required for) Extra head "ditto"

1/76 5/16" woodruff key Extra head "ditto" B-1085/19 170 Spindle pulley Extra head "ditto" 178 A-1803/58 Spindle washer Extra head "ditto"

whit R, H, nut (I per front side www.DaltonsWadkin.com head, 1 per bottom head)

199 200 A-1033/233

A-1033 / 228

A-1033/278

C-1033/214

C-1033/215

A-1033/217

A-1033/221

A-1033/218

A-1033/219

A-1033/220

A-S-164

189

190

191

192

193

194

195

196

197

198

NOTE :-When ordering replacement parts quote no, and terral number of the machine, part no. and

whit L. H. nut (1 per fence side head, 1 per top head) whit L. H. nut (Extra head) 1/8" gas straight grease nipple (horizontal heads) Extra head "ditto"

1/8" gas angled grease nipple (vertical heads) Standard knives for square blocks (horizontal heads 4½" long) Extra head "ditto"

1 pair Standard knives for square blocks (vertical heads, 3¹/₄" long) 2 pair 16 Square cutterblock bolt Extra head "ditto" Square cutterblock washer 16 Extra head "ditto" Square cutterblock nut 16

Extra head "ditto"

Standard horizontal cutterblock B-1033/207 B-1033/210 Standard vertical cutterblock A-1033/222 A-1033/216 186 2 Rebate block cutter Rebate cutterblock for bottom head 187 Bottom head spindle distance piece A-1033/76 188 5/8" long

(special)

2

16

16

4

8

4

2

4

2

4

2

Top head "ditto" 1¼" long Extra head "ditto" 1¼" long Bottom head spindledistance piece 1 (metric spindle machine) Side head spindle distance piece 2 14" long 1 Adjusting spanner for circular cutterblock cutters (special) 2 Horizontal circular cutterblock

Extra head "ditto" Vertical circular cutterblock (special) No. 2 adjusting nuts (special) Extra head "ditto" No. 2 adjusting screws (special)

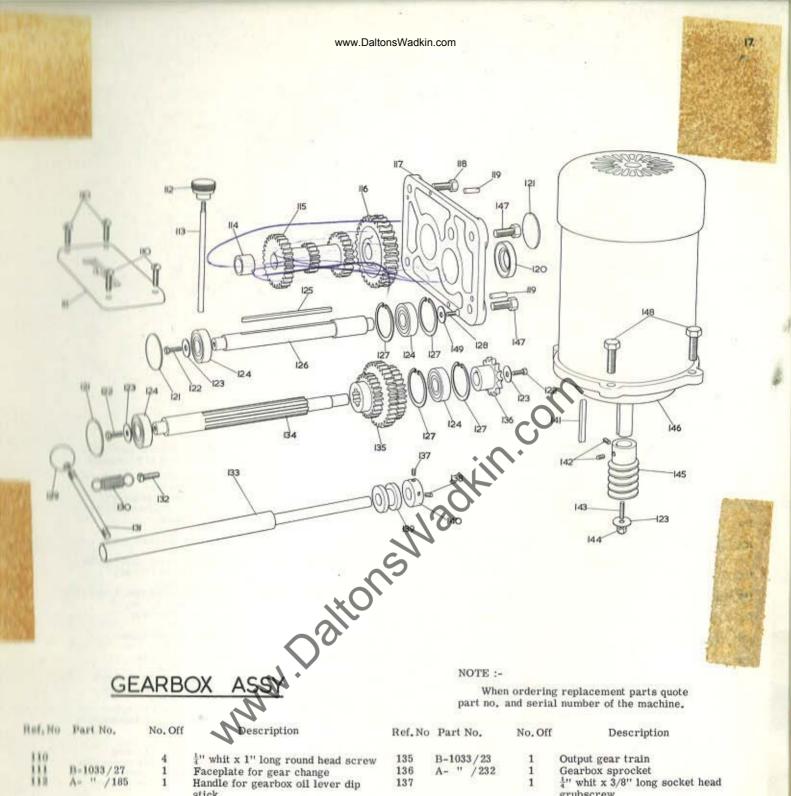
Extra head "ditto" 3 4" long horizontal head circular Cutterblock wedges (special Vertical head "ditto" Extra head "ditto"

" whit circular cutterblock wedge 36 screw (special) Extra head "ditto" 11" long circular cutterblock

wedges (special) Extra head "ditto" 41" long knives for horizontal heads circular cutterblock (special) Extra head "ditto"

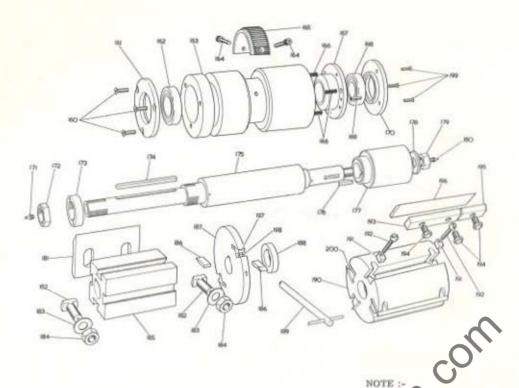
34" long knives for vertical heads circular cutterblock (special) Wedge for rebate block 5/16" BSF wedge screws whit x 5/8" long CSK head screw

Extra head "ditto" 43" long horizontal circular cutterblock wedges (special) Extra head "ditto"



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

Hef. No	Part No.	No. Off	Description	Ref. No	Part No.	No. Off	Description
110		4	1" 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 stick	137	41	1	4" whit x 3/8" long socket head grubscrew
110	A= " /185	1	Gear oil lever dip stick	138		1	1 whit x 1 socket head grubscrew
114	A= " /28	1	Input shaft distance piece	139	A-1033/30	1	Gear change bush
110	B= " /22	1	Input gear chain	140	A-1033/31	1	Gear change collar
116	11= " /73	1	Wormwheel for 3 phase motor	141	nations with the con-	1	3/16" x 2" long feather key
117	C= " /8	1	Gearbox Cover	142		2	1" whit x 1 long socket head
110	A STATE OF THE PARTY OF THE PAR	2	3/8" whit x 14" long hexagon head	ACVE OF			grubscrew
			Bolt	143		1	$\frac{9}{4}$ " whit x $1\frac{1}{4}$ " long stud
110		2	1" dia x 1" long fluted dowel	144		1	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	1" whit x 1" long hexagon head bolt	1200		8.50	T.E.F.C. Frame M. 66B, with four
133	A-1033/280	4	Washer for gearbox shaft				lug endshield (50 cycles, 1 speed)
134		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/
130	1000	1	4" whit x 1" long socket head counter			3.00	1500 rpm T. E. F. C. Frame M66B
	V300		sunk screw				with four lug endshield (50 cycle
120:	P 376	1	14" dia Plastic Ball, 3/8" whit				2 speed)
	7404	(2)	without insert			1	Brook motor, 3HP, 3600/1800 rpm
130	A-1029/67	1	Gearchange lever spring				T.E.F.C. Frame M66B, with four
	A-1002/90A	1	Gearchange lever handle				lug endshield (60 cycle, 2 speed)
	A+1029/68	1		147		2	3/8" whit x 13/4" long hexagon head
	D-1033/26	1	Gearchange lever spring holder bolt Gear Lever www.Dalto	nsWadkir	n.com	-	bolt
134	11-1033/25	1	Output shaft	148		4	$\frac{3}{4}$ " whit x 1" long hexagon head bolt
A STATE OF THE PARTY OF THE PAR	00/60		Output shart	440		0.00	4 with w w world included near post



SPINDLE ASSEMBLY

B-1033/14

Spindle pulley

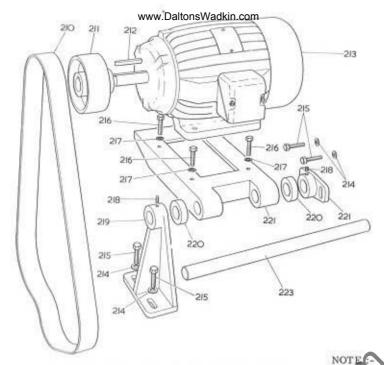
ordering replacement parts quote and serial number of the machine. 5/16" whit x 1" long CSK head screw Extra head "ditto" whit L. H. nut (1 per fence side head, 1 per top head) "whit L.H. nut (Extra head) 1/8" gas straight grease nipple Thrust end dust cap Extra head "ditto" B-1033/11 180 Hoffman 145 bearing (horizontal heads) Extra head "ditto" Extra head "ditto" C-1033/10 4 Bearing housing (state head required 1/8" gas angled grease nipple (vertical heads) for) Extra head "ditto"
3/8" whit x 3/4" long socket head Standard knives for square blocks (horizontal heads 4½" long) Extra head "ditto" 2 pair allenscrew I pair Standard knives for square blocks (vertical heads, 3¹/₄" long) B-1033/15 Racked quadrant for bearing housing B-S-166 2 pair (state head required for) Square cutterblock bolt Extra head "ditto" Square cutterblock washer A-1033/59 Springs for spindle end float Extra head "ditto" Float end inside dust cap A-1033/224 16 B-1033/12 183 A-1033/226 16 Extra head "ditto" Extra head "ditto" Hoffman 135 bearing A-1033 / 225 Square cutterblock nut 16 Extra head "ditto"

3/16" x 1½" groverlock down
Extra head "ditto" Extra head "ditto" B-1033/207 B-1033/210 Standard horizontal cutterblock 185 2 2 Standard vertical cutterblock Float end outside dust Extra head "ditto" B-1033/13 186 Rebate block cutter Rebate cutterblock for bottom head A-1033/222 2 A-1033/216 187 1/8" gas straight great nipp Extra head "ditto" Top head cutterblock locknot Bottom head spindle distance piece 188 A-1033/76 1 5/8" long 5/8' 10ng
Top head "ditto" 1¼" long
Extra head "ditto" 1¼" long
Bottom head spindle distance piece
(metric spindle machine) A-1033/186 (R, H, thread) Metric top head cutterblock locknut A-1033/262 A-1033/228 1 (R. H. thread) A-1033/186 Bottom head cutterblock locknut A-1033/278 Side head spindle distance piece (L, H, thread) Metric Bottom head cutterblock locknut (L, H, thread) 11" long A-1033/262 189 1 Adjusting spanner for circular cutterblock cutters (special) Horizontal circular cutterblock Front side head cutterblock locknut A-1033/187 190 C-1033/214 2 (R. H. thread) (special) A-1033/263 Metric front side head cutterblock Extra head "ditto" locknut (R. H. thread) Vertical circular cutterblock C-1033/215 2 Fence side head cutterblock locknut A-1033/187 (special) (L.H. thread) Metric fence side head cutterblock No. 2 adjusting nuts (special) 191 16 Extra head "ditto" A-1033/263 locknut (L, H, thread) 192 No. 2 adjusting screws (special) A-1033/244 Cutterblock locknot (R, H, thread) Extra head "ditto" 34" long horizontal head circular extra head (state spindle dia) 193 A-1033/217 4 Cutterblock wedges (special Vertical head "ditto" Spindle locknut (L, H, thread) (1 per front side head, 1 per bottom A-1033/45 8 Extra head "ditto" head) A-1033/45 Spindle locknut (R, H, thread) " whit circular cutterblock wedge 194 A-1033/221 36 screw (special) Extra head "ditto" 1½" long circular cutterblock (1 per fence side head, 1 per top APPE STREET 10 H-1093746 Spindle locknut (R. H. thread) (1 per A-1033/218 195 4 wedges (special) Extra head "ditto" extra head Key for horizontal heads A-1033/284 Extra head "ditto" Key for vertical heads 4 1 long knives for horizontal heads 196 A-S-164 circular cutterblock (special) Cutterhead spindle (state spindle Extra head "ditto" end dia and head required for) Extra head "ditto" 3 1" long knives for vertical heads circular cutterblock (special) www.DaltonsWadkin.com 5/16" woodruff key 197 A-1033/219 Wedge for rebate block Extra head "ditto" A-1033/220 5/16" BSF wedge screws

199

12

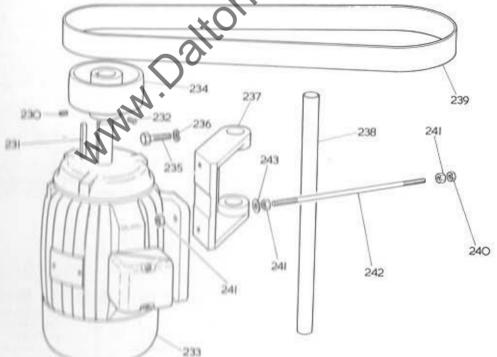
whit x 5/8" long CSK head screw



TOP HEAD MOTOR MOUNTING ASSEMBLY

Off Description Ref No. Part No. No. Off Description

Rot. Ho Part No. No, Off Ref No. Description Part No. Description 3/8" washer 3/8" whit x 1" long hexagon head bolt 810 75" long x 2" wide Meteor flat belt 214 double faced, type S 215 211 3/8" whit x 14" long hexagon head bolt D:1003/10 50 cycle motor pulley 216 1 /800 60 cycle motor pulley 217 3/8" spring washer 5/16" whit x 5/8" long socket head 3/8" wide x 4" long Feather key 218 Brook motor, frame D. 213, 72HP T. E. F. C., 3000rpm, foot mounted grubscrew Back horizontal motor pivot bracket /202 3phase 50 cycles Motor pivot bar collar Brook "Kompact" motor, Frame L213T, 7½HP T.E.F.C. 3600rpm foot mounted, 3 phase 60cycles /82 Top and bottom heads motor bracket /271 Front horizontal motor pivot bracket /174 Motor Pivot bar



SIDE HEAD MOTOR MOUNTING ASSEMBLY

			1100		
Part No.	No. Off	Description	Ref. No.	Part No.	N
	1	1/8" gas x 3/8" long socket head	235		
		grubserew			
	1		200 000 400		
	1	1/8" gas x 2" long socket head	238	A-1033/174	
		grobserow	239		
	1	Brook motor Frame D. 184, 5HR	DaltonsWadkin	com	
		3,000rpm T, E, F, C, foot mounted	240	00111	
		3 phase, 50 cycle	241		
	Part Ho.	100	1 1/8" gas x 3/8" long socket head grubscrew 1 5/16" whit x 3" long Feather key 1 1/8" gas x 1" long socket head grubscrew 1 Brook motor Frame D, 184, 5HR	1	1

Brook "Kompact" motor Frame

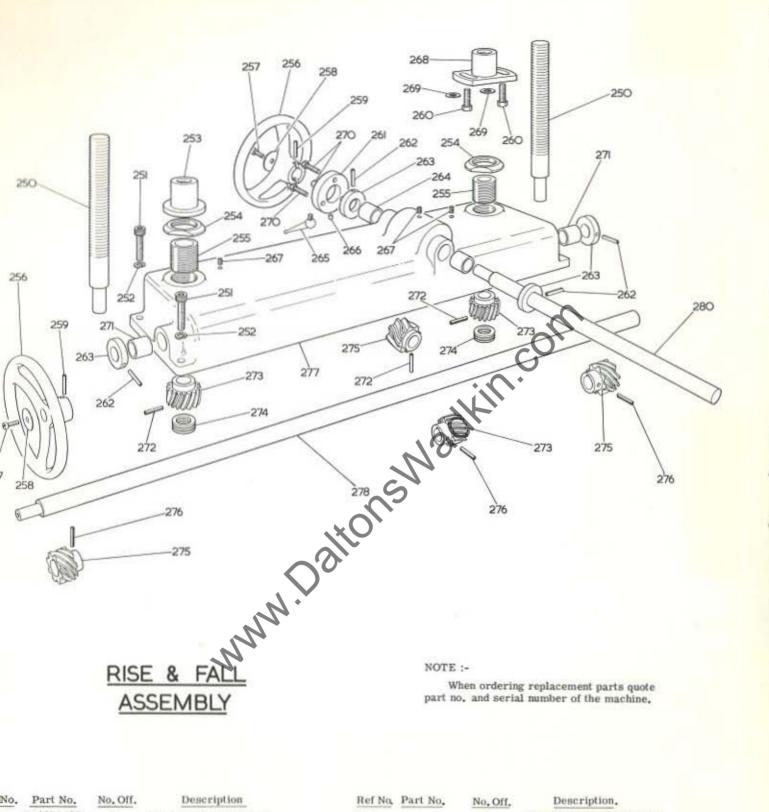
NOTE :-

A-1033/175

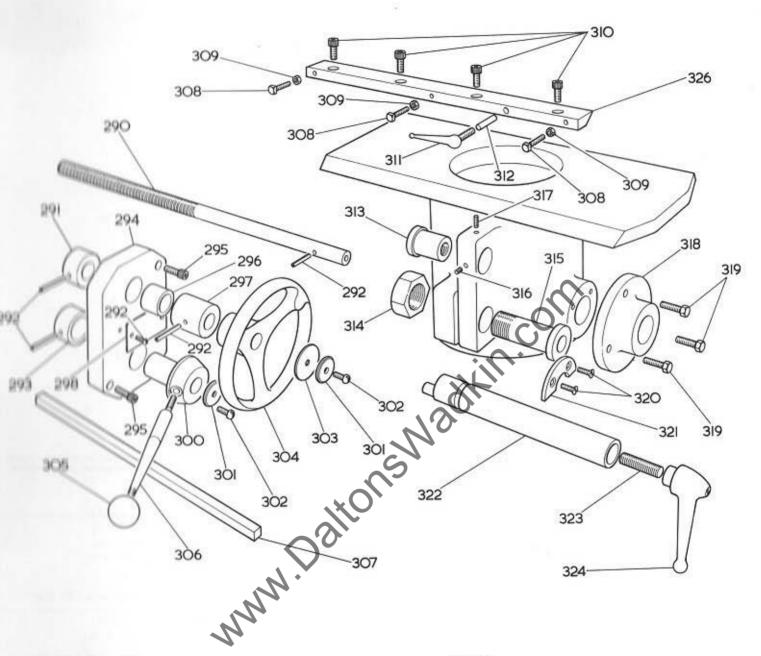
242

When ordering replacement parts quote

Prese c	no, and actual number of the maciane,
No. Off	Description
2	3/8" whit x 11 long hexagon headbolt
2	3/8" dia washer
1	Side head motor bracket
1	Motor pivot bar
1	54" long x 2" wide Meteor flat belt, double faced, type S
1	3/8" whit locknut
3	3/8" whit nut
1	Side heads motor locking stud
1	Washer



Part No.	No. OII.	Description	Ref No.	Part No.	No. Off.	Description.
B-1033/52	2	Top head R & F screw	266		1	5/16" x 3/8" long brass bot
	4	" whit x 1 " long socket head capscrew	267		3	1/8" gas x 3/8" long socket head grubscrew
	4	g" whit spring washer	268	B-1033/20	1	Main bracket R & F nut (flanged)
B-1033/19	1	Main bracket R & F nut (plain)	269	CENTRAL PROPERTY.	2	3/8" whit washer
A-1033/53	2	Locknut for R & F screw adjuster	270		3	5/16" whit x 1" long hexagon head bolts
A-1033/164	2	Top head R & F adjusting screw	271		4	14" o/d x 1" i/d x 13" long oilite bush
C-1030/14	2	72" dia, Dished handwheel (for R & F)	272		3	1" x 13" long groverlok dowel
	2			A-1033/205	3	Spiral gear for main R & F
A-1031/70	2	Washer		W. 1. B.	2	Hoffmann thrust race
	2	3/16" x 1½" long groverlok dowel	275		3	Spiral pinion for main R & F
	2	3/8" whit x 1" long hexagon head bolts	276	74	3	1 x 12 long groverlok dowel
A-1033/93	1		277	D-1033/1	1	R & F bracket
The same of the same of	4		278	A STATE OF THE PARTY OF THE PAR	1	Top head R & F shaft
A-1033/258	4	Collar for R & F handwheel shaft	0.000		1	14" o/d x 1" i/d x 1" long oilite bush
72	1	14" o/d x 1" i/d x 2" long oilite bush		B-1033/51	1	Top head R & F handwheel shaft
	1	3/8" whit short thread ball lever screw	v.Daltons	sWadkin.com	-	a op nom at w a mind filled bligge
	B-1033/52 B-1033/19 A-1033/53 A-1033/164 C-1030/14 A-1031/70 A-1033/93	B-1033/52 2 4 B-1033/19 1 A-1033/53 2 A-1033/164 2 C-1030/14 2 A-1031/70 2 A-1033/93 1	B-1033/52 2 Top head R & F screw 4 ½" whit x 1½" long socket head capscrew ½" whit spring washer B-1033/19 1 Main bracket R & F nut (plain) A-1033/53 2 Locknut for R & F screw adjuster A-1033/164 2 Top head R & F adjusting screw C-1030/14 2 7½" dia, Dished handwheel (for R & F) 2 5/16" whit x ½" long cheese head screw Washer 2 3/16" x 1½" long groverlok dowel 3/8" whit x 1" long hexagon head bolts Outer bearing for top head R & Fshaft 3/16" x 1½" long groverlok dowel Collar for R & F handwheel shaft	B-1033/52 2 Top head R & F screw 266 4 ½" whit x 1½" long socket head 267 capscrew ½" whit spring washer 268 B-1033/19 1 Main bracket R & F nut (plain) 269 A-1033/53 2 Locknut for R & F screw adjuster 270 A-1033/164 2 Top head R & F adjusting screw 271 C-1030/14 2 7½" dia, Dished handwheel (for R & F) 272 2 5/16" whit x ¾" long cheese head screw 273 A-1031/70 2 Washer 274 2 3/16" x 1½" long groverlok dowel 275 2 3/8" whit x 1" long hexagon head bolts 276 A-1033/93 1 Outer bearing for top head R & Fshaft 277 3/16" x 1½" long groverlok dowel 278 A-1033/258 4 Collar for R & F handwheel shaft 279	B-1033/52 2 Top head R & F screw 266 4 ½" whit x 1½" long socket head 267 capscrew ½" whit spring washer 268 B-1033/20 B-1033/19 1 Main bracket R & F nut (plain) 269 A-1033/53 2 Locknut for R & F screw adjuster 270 A-1033/164 2 Top head R & F adjusting screw 271 C-1030/14 2 7½" dia, Dished handwheel (for R & F) 272 2 5/16" whit x ¾" long cheese head screw 273 A-1033/205 A-1031/70 2 Washer 274 W.1.B. 2 3/16" x 1½" long groverlok dowel 275 A-1033/204 2 3/8" whit x 1" long hexagon head bolts 276 A-1033/93 1 Outer bearing for top head R & Fshaft 277 D-1033/1 3/16" x 1½" long groverlok dowel 278 B-1033/50 A-1033/258 4 Collar for R & F handwheel shaft 279	B-1033/52 2 Top head R & F screw 266 3 3 capscrew 4 ½" whit x 1½" long socket head 267 3 capscrew ½" whit spring washer 268 B-1033/20 1 B-1033/19 1 Main bracket R & F nut (plain) 269 2 A-1033/53 2 Locknut for R & F screw adjuster 270 3 A-1033/164 2 Top head R & F adjusting screw 271 4 C-1030/14 2 7½" dia, Dished handwheel (for R & F) 272 3 2 5/16" whit x ½" long cheese head screw 273 A-1033/205 3 A-1031/70 2 Washer 274 W.1.B. 2 3/16" x 1½" long groverlok dowel 275 A-1033/204 3 2 3/8" whit x 1" long hexagon head bolts 276 3 A-1033/93 1 Outer bearing for top head R & Fshaft 277 D-1033/1 1 3/16" x 1½" long groverlok dowel 278 B-1033/50 1 A-1033/258 4 Collar for R & F handwheel shaft 279 1

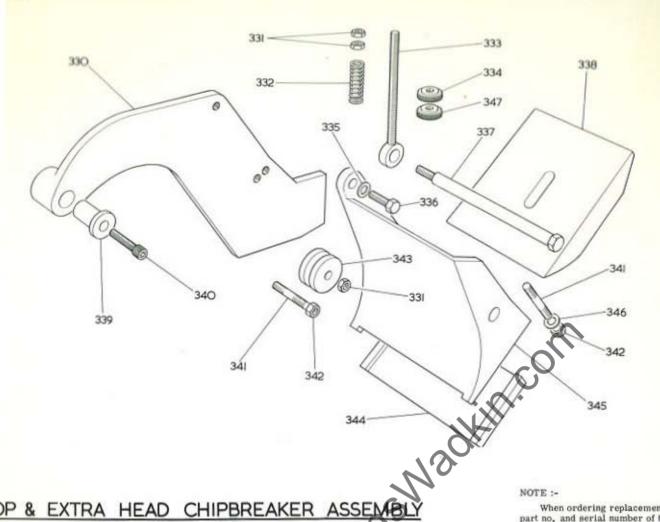


FRONT SIDE HEAD ASSEMBLY

NOTE :-

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

tet.Ho.	Part No.	No, Off	Description	Ref. No	Part No.	No. Off	Description
900	B=1033/96	1	Front side head adjusting screw	309		3	i" whit locknuts
991	A=1033/250	4	Collar for side head adjustment screw 3/16" x 14" long groverlok spring dowel	310		4	3/8" whit x 3 long socket head cap screw
800	A=1033/201	1	Collar for front side head lock	311	B-S-1-B	1	3/8" whit ball lever screw
204	B=1033/50	1	Front side head cover plate	312		1	5/16" dia x 2 ³ / ₄ " long brass bot
100		2	5/16" whit x 1" long socket head cap	313	A-1031/58	1	Nut for front side head
			screw	314	A-1033/106	1	Front side head locking nut
300		1	" I/dia x 1" o/dia x 3" long oilite bush	315	B-1033/98	1	Front side head locking screw
307	A=1033/95	1	Spacing collar for front head adjustment	316		1	1" whit x 1" long socket head grubscrew
800	C=8K=528/D	1	Instruction plate for front side head	317		1	i'' whit x i'' long socket head grubscrew
800	164	2	‡" self tapping screw	318	B-1033/79	1	Bearing for front side head R & F
300	B=1033/09	1	Front side head locking collar		70		eccentric
801	A=1033/200	2	Washer for front side head lock	319		3	5/16" whit x 1" long hexagon head bolts
809	A STATE OF THE STA	28	" whit x " long round head screw	320		2	1'" whit x 1'' long CSK head screw
808	C-BK-888/M	1	Instruction plate for front side head	321	A-1033/109	1	Front side head eccentric pin keep plate
1777	PARTIES AND TAXABLE VALUE	100	handwheel	322	A-1033/103	1	Front side head R & F eccentric
804	B=1033/02	1	Dished handwheel for front side wood Da	tons Wad	Mr. 1933 / 268	1	Stud for front side head eccentric
300	Manage Brand	1	14" dia plastic ball, 3/8" whit	324	akii i.ooiii i	1	No. 4 kipp handle, 5/8" whit female
300	B=1087/40	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.



P & EXTRA HEAD CHIPBREAKER

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

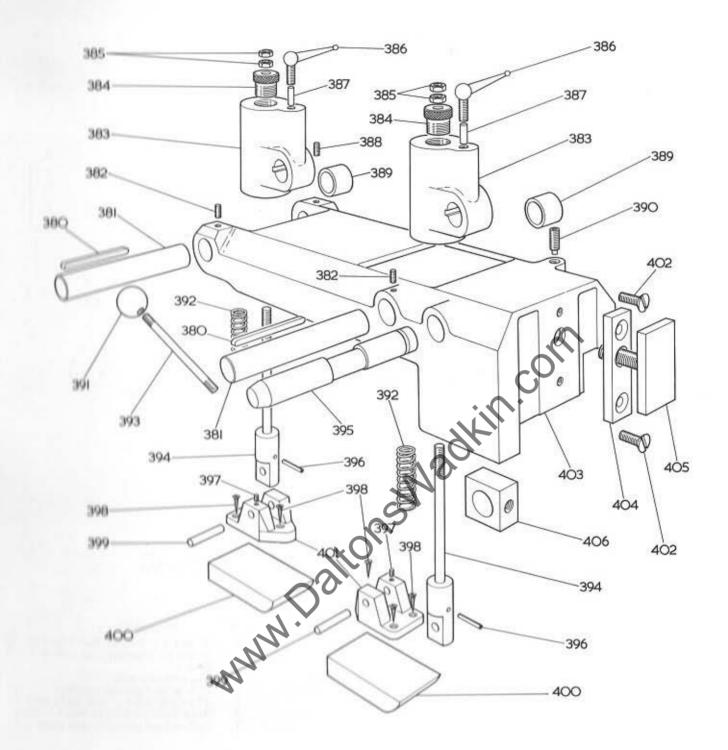
Part No.	No. Off	Description	Evt. No.	Part No.	No. Off	Description
C-1033/251	1	Top head chip breaker plate		A-1033/301	1	Chip breaker pivot bush
C-1033/250	1	Extra head "ditto"	340	CCAPAGE NO COM	1	3/8" whit x 13" long socket head cap head screw
	3	3/8" whit locknut	341		2	3/8" whit x 21" long stud
A-1033/195	1	Spring for top head chip breaker	342		1	3/8" whit nut
A-1033/111	1	Chip breaker stopscrew	343	A-1033/253	1	Chip breaker trapping collar
A-1033/239	1	Knurled knob for chip breaker	344	B-1033/115	1	Wood pressure trapping plate
0.000,000	1	3/8" B. S. F. washer (thick)		B-1033/252	1	Extra head "ditto"
	1	3/8" whit x 1" long hexagon head box	345	C-1033/72	1	Chip breaker bracket
A-1033/198	1	Pivot pin for chip breaker scraw	346		1	3/8" whit washer
	1	Wood chin breaker shoe	347	A-1033/239	1	Knurled knob for chip breaker (with spigot)

360 357

SIDE HEAD CHIPBREAKER ASSEMBLY

350		2	3/16" whit x 3/8" long C. S. K. head screw
351	A-1033/193	1	Sheet steel cover for side head
352		1	Front side head hood
353		1	3/8" whit x 12" long stud
354		2	3/8" whit nut
355		3	3/8" whit washer
356	A-1033/181	1	Side head chip breaker pivot
357	C-1033/60	1	Side chip breaker
358		1	" whit aerotight nut
359		1	" whit washer
360		1	" whit x 23" long stud
361	A-1033/285	1	Distance piece for side head chipbreaker
362		1	Wood pressure pad
363	A-1033/113	1	Front side head wood pressure trapping plate
364	State of the state	1	3/8" whit x 2" long stud
365		2	3/8" whit x 1" long C. S. K. head screw
366		1 2 2 1	3/8" whit lockmit
367	C-1033/68	1	Side chip breaker pivot plate
368	A-1033/111	1	Chip breaker stop screw
369	A-1033/239	1	Knurled knob for chip breaker
370	A-1033/239	1	Knurled knob for chip breaker (with spigot)
371	A-1033/196	1	Pressure sp. ing for side head chip breaker

NOTE :-

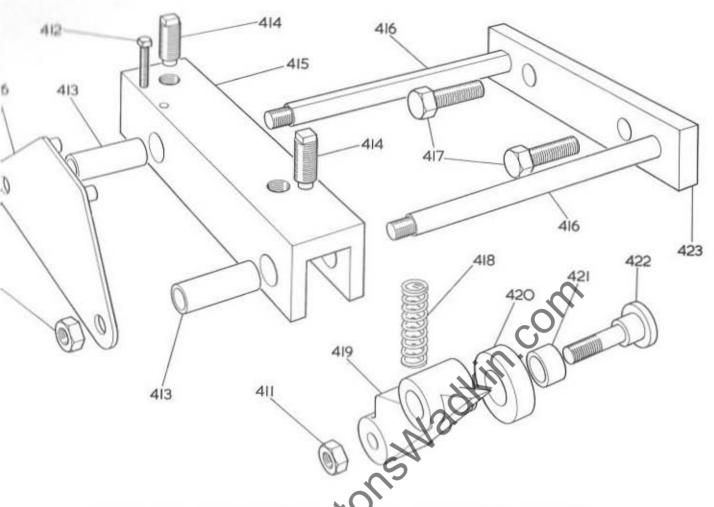


PRESSURES OVER SIDE HEAD ASSEMBLY

NOTE :-

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

ftet, No	Part No.	No. Off	Description	Ref. No.	Part No.	No. Off	Description
100		2	4" wide x 3" long feather key	394	B-1033/152	2	Top pressure rod
301	A-1033/87	2 2	Top pressure slide bar for side head 5/16" whit x 4" long socket head	395	A-1033/114	1	Pressure arm bracket locking eccentric
			grubscrew	396		2	14" x 12" long groverlok spring dowel
353	B-1033/57 A-1033/94	2	Top pressure bracket Pressure adjusting nut	397		2	" whit x " long socket head grubscrew
9.05		4	3/8" whit locknut	398		6	No. 8 countersunk head woodscrew
386	B=8-1-B	2	3/8" whit ball lever screw				3" long
307		2	5/16" dia x 1" long brass bot	399	A-1033/200	2	Pivot pin for top pressure pad
300		2	5/16" whit x \(\frac{1}{2} \) long socket head	400		2	Wood pressure pad
			grubscrew	401	B-1033/89	2	Top pressure pad for side heads
389	A=1033/68	2	Top pressure slide bar plug for side heads	402		2	3/8" whit x 1" long countersunk head screw
390		1		403	C-1033/49	1	Pressure arm bracket
			3/8" whit x 1" long dogpoint socket Dalto head grubscrew	nsvvadkin	A-1033/119	1	Pressure arm bracket key
301		1	14" dia plastic ball, 3/8" whit	405	A-1033/118	1	Pressure arm bracket clamp
998	A=1033/195	2	Top pressure spring	406	A-1033/116	1	Pressure arm bracket eccentric
383	A-1009 / 00 A	. 1	Handle for looking consuluis		The second secon		

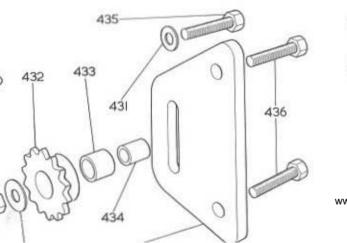


ROLLER PRESSURES OVER BOTTOM HEAD

Part No.	No. Off	Description	Ref No.	Part No.	No. Off	Description
B-1033/150	1	Bottom head pressure support plate	417		2	1" whit x 1" long hexagon head bolt
	4	Lit white and	418	A-1033/256	2	Spring for pressure over bottom
	1	" whit x 1" long square head bolt				head
A-1033/86	2	Pivot bush for bottom head pressure	419	B-1033/62	2	Top pressure arm
A-1033/117	2	Bottom head pressure adjusting	420	A-1033/91	2	Bottom head pressure rollers
		screw	421	and the state of t	2	" i/d x 1" o/d x 1" long oilite bush
B-1033/153	1	Bottom head pressure bracket	422	A-1033/90	2	Pin for bottom head pressure rollers
A-1033/85	2	Pivot pin for bottom head pressures	423	B-1033/151	1	Bottom head pressure back plate

NOTE :-

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

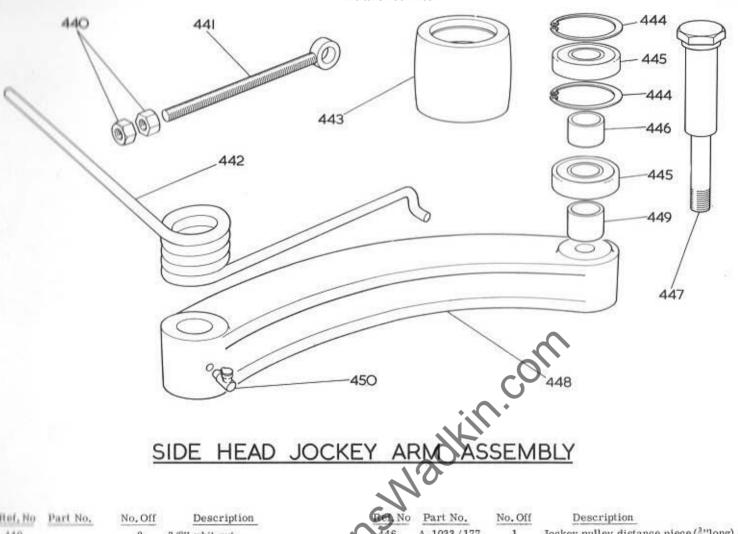


24

JOCKEY SPROCKET ASSEMBLY

Ref No.	Part No.	No. Off	Description
430		1	3/8" whit aerotight nut
431		2	
432	A-1033/233	1	Jockey sprocket
433		1	5/8" i/d x 7/8" o/d x 1, 1/8" long oilite bush
434	A-1033/212	1	Jockey sprocket bush
435		1	3/8" whit x 2" long hexagon head bolt
436		2	3/8" whit x 13" long hexagon head bolt
ww.Daltor	nsWadkin.com	1	Jockey sprocket holder

NOTE :-

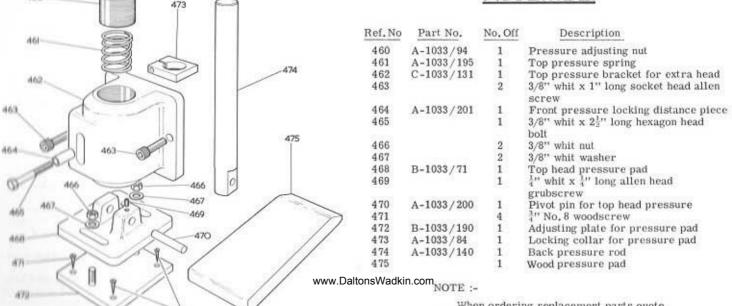


Ref, No.	Part No.	No.Off	Description	Bei No	Part No.	No. Off	Description
440		2	3/8" whit nut	446	A-1033/177	1	Jockey pulley distance piece (3"long)
441	A=1033/111	1	Belt tension spring adjusting screw	447	B-1033/154	1	Side head jockey pulley bearing pin
442	B=1033/288	1	Spring for side heads belt tention	448	C-1033/48	1	Side head jockey pulley arm
445	B-1033/78	1	Jockey pulley	449	A-1033/177	1	Jockey pulley distance piece
444	5000-206	2	52mm internal circlip		011		(1,3/16" long)
445	DN 205	2	Fischer "sealed for life" bearing	450	Oilers L2511	1	Angled Oiler

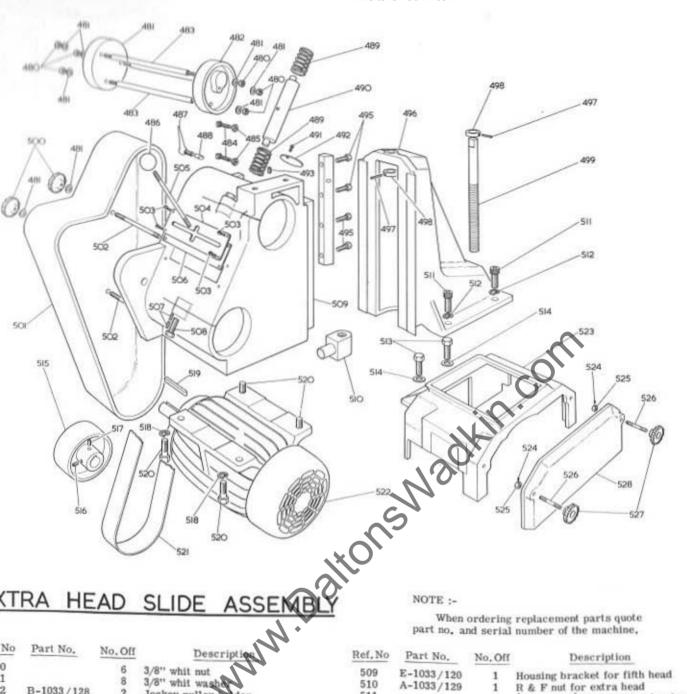
When ordering replacement parts quote part no. and serial number of the machine,

460

PRESSURE AFTER EXTRA HEAD **ASSEMBLY**



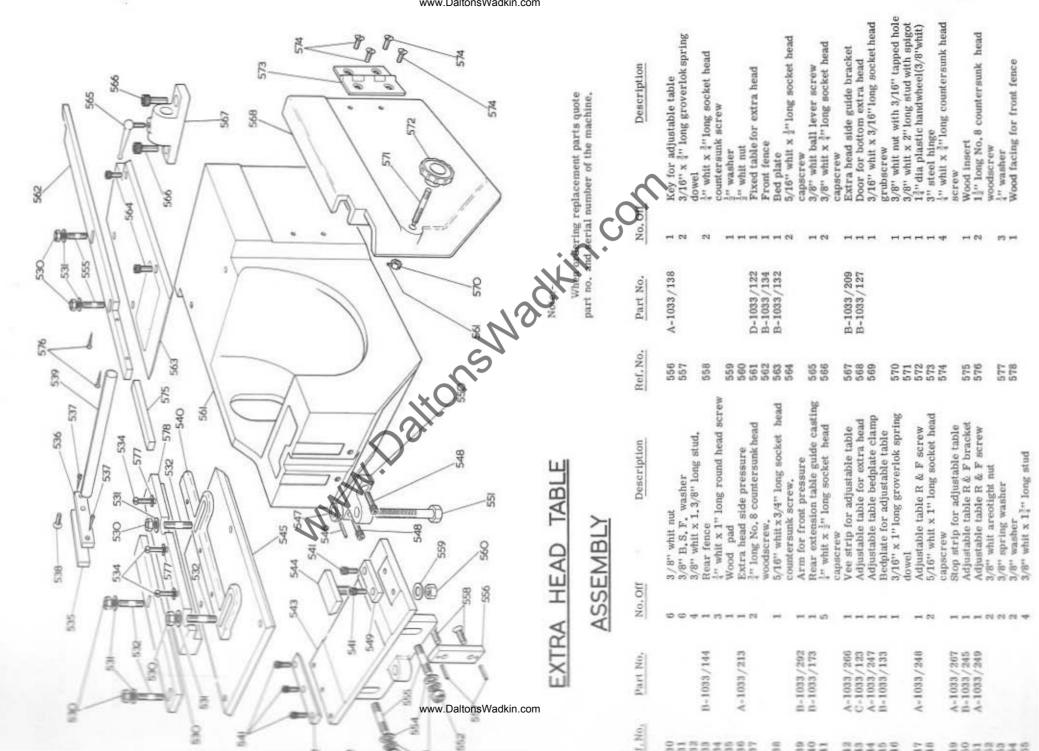
When ordering replacement parts quote part no. and serial number of the machine.



HEAD SLIDE

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

			part no, and serial number of the machine,				
lo	Part No.	No. Off	Description	Ref. No	Part No.	No. Off	Description
		6	3/8" whit nut	509	E-1033/120	1	Housing bracket for fifth head
		8	3/8" whit washes	510	A-1033/129	1	R & F nut for extra head
	B-1033/128	2	Jockey pulley holder	511	11 1000/160		3" whit x 13" long socket head cap
	A-1033/139	3	Jockey pulley holder tie bars	7.7374		*	- 프린트 및 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
		4	1" whit x 11" long square head bolt	512			screw
		4	t" whit nut	513		9	½" spring washer ½" whit x 1¼" long hexagon head bolt
		1	14" dia plastic ball 3/8" whit bore	514		2	
		1	3/8" whit ball lever screw	515	B-1033/16	2	i' washer
		1	5/16" dia x 14"long brass bot	0.0	B-1033/16	1	50 cycle motor pulley
	A-1033/142	2	Adjustment spring	516	D-1033 / 265	1	60 cycle motor pulley
	A-1033/137	1	Lateral adjustment eccentric pin	210		1	1/8" gas x 1 long socket head
		1	3/16" whit x 3/8" long round head				grubscrew
			screw	517		1	1/8" gas x 3/8" long socket head
	B-1033/287	1					grubscrew
		1	Cover plate for extra head adjustment	518		4	3/8" spring washer
			3/8" whit x 5/8" long socket head grubscrew	519		1	5/16" wide x 21" long feather key
	A-1033/136	1		520		4	3/8" whit x 12" long hexagon head
		4	Gib strip for extra head	1.25.250			bolt
	D-1033/121	1	3/8" whit x 1" long hexagon head bolt	521		1	62" long x 2" wide meteor flat belt
		2	Slide bracket for extra head				double faced type S (50cycle)
			3/16" x 14" long groverlok spring			1	604" long x 2" wide meteor flat belt
	A-1033/260		dowel				double faced, type S (60cycle)
	A-1033/135	2	Collar for extra head R&F screw	522		1	Brook motor, Frame D184, 5HP,
	N-1000/100	1	R & F screw for extra head			-	T. E. F. C., 3000rpm foot mounted,
	D-1033/125	2	13" dia plastic handwheel 3/8" whit				3phase, 50cycles
		1	Belt guard for extra head			1	Brook 'Kompact' motor, Frame
	A-1033/269	2	Belt guard stud				LS184T, 5HP, T.E.F.C.3, 600rpm,
	C CIZ FOO (C	4	3/16" whit x 3"long round head screw				foot mounted, 3phase, 60cycles
	C-SK-528/Q	1	Instruction plate for extra head	523	C-1033/124	1	Cover for extra head
	A-1031/103	1	Lateral adjusting handle for extra	524	- 1000/121	2	3/16" whit x 3/16" long socket head
		- 02	head	10000		4	grubscrew
	A-1033/241	1	Extra head cover plate	www Dalton	sWadkin.com	0	3/8" whit nut with 3/16" tapped hole
		4	4" whit x 3/8" long socket head	526	SVVaukiii.COIII	2	3/8" whit x 2\frac{1}{3}" long stud with spigot
			grubscrew	527		2	3/6 Whit X Z Tong stud with spigor
		2	Y" whit x 2" long hexagon head bolt	528	B-1033/126	2	13" dia plastic handwheel
		0.000	and members ment dott	040	D-1003/126	1	Door for fifth head cover.



EXTRA EQUIPMENT

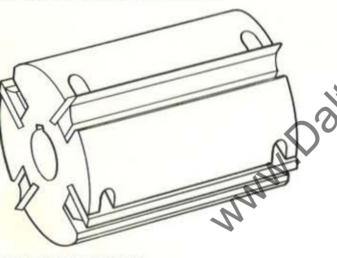
ARE CUTTERBLOCKS

TOP & BOTTOM HEADS

(120mm) long x 3" (76mm) square cutterblock 14" (31.75mm) = 1033/107 with bolts, nut and washers

SIDE HEADS

(82mm) long x 3" (76mm) square cutterblock $1\frac{1}{4}$ " (31. 75mm) e 1033/210 with bolts, nuts and washers



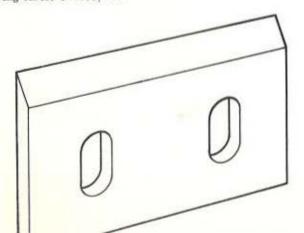
CULAR CUTTERBLOCKS

R TOP AND BOTTOM HEADS

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

R SIDE HEADS

ır knife circular cutterblock 3¼" (82mm) x 5" (127mm) dia ing circle C-1033/215



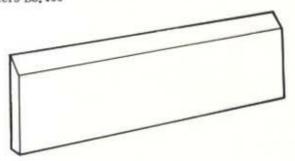
CUTTERS FOR SQUARE CUTTERBLOCKS

FOR TOP AND BOTTOM HEADS

1 pair 4³" (120mm) long x 3¹/₂" (89mm) x 3/8" (9.5mm) HSS straight cutters BS, 165

FOR SIDE HEADS

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



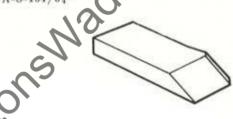
CUTTERS FOR CIRCULAR CUTTERHLOCK

FOR TOP AND BOTTOM HEADS

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

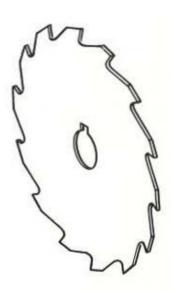
FOR SIDE HEADS

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



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 www.DaltonsWadkin.com saw flanges for above 1 set spacing collars for above

SALES & SERVICE

HONE: LEICESTER 68151 (7 LINES).

Woodworker, Leicester, Tp.

34646 (WADKIN, LEICSTER.)

OFFICE: YORK HOUSE
YY, MIDDLESEX.

NES: 01-902 771 Wadkin Ltd.

BURSGREEN MACHINES ARE MANUFACTURED BY:

BURSGREEN (DURHAM) LTD., FENCE HOUSES, HOUGHTON-LE-SPRING, Co. DURHAM.

BURSGREEN (COLNE) LTD., LODGE HOLME, TRAWDEN, NR COLNE, LANCS.