# Wadkin

## COMBINED SURFACER AND THICKNESSER, TYPE F.M.

## PRINCIPAL DIMENSIONS AND CAPACITIES

	18" MACHINE		24'' MA	ACHINE
	ENGLISH	METRIC	ENGLISH	METRIC
Thicknessing capacity	18'' x 9''	457 x 229mm	24'' x 9''	610 x 229mm
Surface capacity without removing fence	20''	508mm	26''	660mm
Maximum depth of cut on surfacing tables	<u>3</u> //	19mm	311 4	19mm
Maximum depth of rebate in any width of timber	$\frac{1}{2}$ 1	<b>13</b> mm	$\frac{1}{2}$ **	<b>13</b> mm
Maximum depth of rebate when timber				
overhanging tables does not exceed $1\frac{5}{8}$	1"	<b>25</b> mm	1''	<b>25</b> mm
Maximum depth of moulding with pressure bars	<u>5</u> 11	16mm	<u>5</u> 11	<b>16mm</b>
Maximum depth of moulding removing pressure b	pars $1\frac{1}{4}$	32mm	$1\frac{1}{4}$	<b>32</b> mm
Length of surfacing tables overall	6' 1''	<b>1854</b> mm	6' 1''	1854mm
Length of thicknessing table	$3' 7\frac{1}{2}''$	1105mm	$3' 7\frac{1}{2}''$	<b>1105mm</b>
Length of thicknessing table over carrier rollers	5' 51''	1664mm	5' 5 <u>1</u> ''	1664mm
Height of surfacing table	2' 10''	864mm	2' 10''	864mm
Fence on surfacing table cants	4	5 <sup>0</sup>	4	15 <sup>0</sup>
Speed of cutterblock in r.p.m. on 50 and 60 cycles	4,	500	4,	500
Diameter of cutting circle	5''	$127 \mathrm{mm}$	5''	<b>127</b> mm
Standard rates of power feed in feet per minute	25, 35 and 55	7.6, 10.7	25, 35 and 55	7.6, 10.7
		and 16.8m		and 16.8m
Horse power of motor		5		$7\frac{1}{2}$
Floor space	6' 1'' x 4' 3''	$1854 \times 1295 mm$	6'1''x 4'9''	1854 x 1448mm
Net weight in cwt	26 (2912lb)	1321 kgs	<b>29 (3248</b> 1b)	1473 kgs
Shipping dimensions in cubic feet	75	2.12 cu.m.	88	2.49 cu.m.

## DETAILS INCLUDED WITH MACHINE

Motor, control gear and insulated wiring. One canting fence complete with holding down springs. One pair of high speed steel cutters. One cutter guard. One lubricating gun and tin of lubricant. One set of spanners.



FIG. 1 GENERAL VIEW OF MACHINE SHOWING PRINCIPAL CONTROLS

### INSTALLATION

The machine is despatched from the Works with all bright surfaces greased to prevent rusting. This protective covering should be removed by applying a cloth damped with paraffin or turpentine.

#### FOUNDATIONS

Four rag type foundation bolts  $\frac{5}{8}$ " (16mm) diameter should be used to fix the machine to the floor but these are not supplied with the machine unless specially ordered. If the mill floor consists of 6" (152mm) solid concrete no special foundation is necessary. The outlines in Figs. 2 and 3 give details of bolt positions and clearances required for 18" and 24" machines respectively. Cut 4" (102mm) square holes in the concrete and with bolts in position run in liquid cement to fix. A good wooden floor is also satisfactory in which case coach bolts may be used.

Whatever the method of fixing, the machine should be carefully levelled before fixing and again after final fixing to ensure that no distortion has taken place. Check that the thicknessing table is free in its slide when unlocked and that the cutterblock rotates freely in its bearings.

WIRING

For details of wiring instructions see pages 19 to 21. Diagram D.863 is for motors on 50 cycles and diagram D.586 is for motors on 60 cycles.



Page 4

FIG. 2



Page 5

## LUBRICATION

Every week thoroughly clean down the machine and renew the thin film of oil on all bright parts to prevent rusting. All moving parts should be oiled monthly using Wadkin oil Grade L4. These include table slides, feed driving chain, rise and fall chain, motor pivot shaft and table locking shaft.

WEEKLY	A POINTS	Top up oil cups with Wadkin oil Grade L4.
	<b>B POINTS</b>	Give two depressions of the oil gun using Wadkin oil Grade L4.
	C POINT	Check level of oil in the gearbox and fill up to level of notch on the dip stick with Wadkin gear oil Grade L2.
QUARTERLY	D POINTS	Give four to six depressions of the grease gun using Wadkin grease Grade L6.
HALF YEARLY	C POINT	Drain off old oil and refill.

NOTE:- The table roller and gearbox bearings are sealed for life and require no lubrication.

WADKIN	EQUIVALENT LUBRICANTS			
GRADE	SHELL MEX. & B. P. LTD.	MOBIL OIL CO. LTD.	CALTEX LUBRICANTS	
Gear Oil	Shell Vitrea	Mobil Oil	Meropa Lubricant	
Grade L2	Oil 69	D. T. E. /BB	No <b>. 2</b> Oil	
Machine Oil	Shell Vitrea	Mobil 'Vactra' Oil	Caltex Aleph	
Grade L4	Oil 33	(Heavy Medium)	Oil	
Ball Bearing	Shell Vitrea	Mobilux Grease	Regal Starfak	
Grease Grade L6	Grease 3	No. 2	No. 2 Grease	

## WADKIN RANGE OF OIL AND GREASE LUBRICANTS WITH EQUIVALENTS

### TABLE ROLLERS

The table rollers should be set 1/64" (0.4mm) above the table level for boards which are reasonably straight and a little higher for badly twisted boards.

## BELT TENSION (SEE FIG. 5)

The main drive belts are endless of the Vee Rope Type and are tensioned correctly before leaving the Works. If they require re-tensioning because of belt stretch the tie bar should be adjusted. The feed driving belt is of the Link Type Vee Belting and may be shortened by removing a link as stretch takes place.

## FEED DRIVING CHAIN (SEE FIG. 5)

Drive to the feed rollers is by a chain from a three speed gearbox. The feed driving chain should always be run with enough slack in the chain to allow the front feed roller to lift to its maximum lift of  $\frac{1}{2}$ " (13mm). Adjustment is by means of the idler sprocket.

Gears should be changed whilst the machine is slowing down or nearly stopped. Never change gear under load.

The feed speeds obtainable are 25, 35 and 55 feet per minute (7.6, 10.7 and 16.8 metres per minute).

## FIG. 6 SETTING OF FEED ROLLERS AND PRESSURE BARS



#### THICKNESSING ADJUSTMENT

Thicknessing or planing to exact size is performed on the bottom table. A graduated scale and pointer register the finished thickness of work desired. The pointer is accurately set before the machine is despatched, but it is advisable to check over its accuracy before starting the machine in case it has been displaced during transit. Tighten the wear strips on the table slides just sufficiently to take up all play.

To prevent or eliminate sticking of the feed or marking of the job correct adjustment of the feed rollers, pressure bars and table rollers is essential. First set the table rollers approximately 1/64" (0. 4mm) above the table level by means of the adjusting handwheel on the end of the table. Then proceed to thickness two pieces of timber, one at either side of the machine. WITHOUT RAISING THE TABLE, feed through again and put the feed change speed lever in neutral with both pieces in the machine. Switch off the machine and lower the table rollers below the table level. Adjust the nuts to obtain dimensions 'G' and 'H' Fig. 6, either measuring the clearances or using the gauge provided if a finer setting is desired. Dimension 'J' can then be set. Make these adjustments at both sides. Slacken off all the spring adjusting wing nuts and adjust back until just touching the spring. When this position has been reached give one complete turn and lock for the pressure bars. For the feed rollers give three or four complete turns before locking. Lower the table and remove the pieces of wood.

Raise the table rollers approximately 1/64'' (0.4mm) above the level of the table for planing boards which are fairly straight. If the work is wet or badly twisted the rollers should be set a little higher in the table. Check that both ends of the two rollers are at the same height and correct if necessary by adjusting the screws below the table roller bearings under the table.

#### THE CUTTERS

Cutters to sizes as given in the table opposite are supplied in balanced pairs. They should be kept in balanced pairs by ensuring that the cutters have equal dimensions after grinding and that the cutting edge is parallel to the back edge.

Keep the cutters sharp when in position in the block by using a fine grade oil stone dipped in paraffin. Allow the stone to rest lightly and flat on the bevel and pass over the cutter with a rotating action a few times. Give about two strokes on the full length of each knife on the face side to remove all burrs from the cutting edge. Do not allow a heel greater than 1/32'' (.8mm) wide on the bevel before taking out and re-grinding on the grinding machine. Take care to grind off the same amount from each cutter taking light cuts with the grinding wheel. Keep the wheel free from glaze by using an emery wheel dresser occasionally.

For general work knife angles for soft and hard woods are recommended as in Figs. 8 and 9. Where a very fine finish

is required on dry soft and hard woods a slight front bevel is given as in Figs. 10 and 11. For wet or green timber the cutting bevel may be decreased five degrees, but the front bevel should not be given.



#### THE CUTTERBLOCK

The cutterblock supplied is of the wedge type and is arranged to take moulding cutters without in any way upsetting the planing knives. A section through the block is shown in Fig. 12. The block is provided with two dovetail slots as making up pieces 'E' and 'F' and use dovetail bolts in the slots.

For standard range of square and shaped cutters available see Section C of our Tools and Accessories Catalogue No.745.

Cutters to suit customers own shapes can be supplied to special order. When necessary, Tungsten Carbide Tipped cutters can be manufactured.





## FIG. 14 REMOVAL OF BLOCKS AND PRESSURE BARS



#### MOULDING

If it is desired to cut mouldings up to  $\frac{5}{8}$ ''(16mm) in depth the infeed pressure bar must be moved back from the cutterblock. This is done by removing the blocks 'P' Fig. 14 and moving the bar back in the slot. The blocks should then be replaced upside down.

For mouldings over  $\frac{5}{8}$ '' (16mm) in depth both pressure bars must be removed. The tension springs and safety stops 'S' should be removed, thus allowing the outfeed pressure bar to be withdrawn. Remove blocks 'P' and the infeed pressure bar can be removed by tilting as shown.

Mouldings can be worked in two ways, either by using the bottom table and passing the work under the cutters with the power feed motor or by passing the work over the cutters by hand using the top table. The particular operation depends entirely on the type and size of moulding to be cut and also the quantity required. When using the top table, the fence acts as the guide. However with the bottom table wooden guide strips are necessary to keep the work parallel, which are secured by screws at each end of the table.

Makers' Number	Bore	Size Outside Diameter	Width	Number per Machine	Where used on machine
SKF 2308	40mm	90mm	33mm	2	Cutterblock
INA SCI 1616 Needle roller bearing	1"	$1\frac{1}{2}$ "	1"	1	Pin for idler sprocket
FBC DN 2062	<u>5</u> 11	1.9/16"	7/16''	a <b>4</b> .	Table rollers
SKF 0.12 Thrust bearing		2.5/16"	23/32''	2	Raising screw
SKF 0.10 Thrust bearing	1 <sup>1</sup> / <sub>4</sub> "	2.1/16"	23/32''	. 1	Raising screw
FBC DN 2100 FBC DN 2075	1'' 3 4''	$2rac{1}{4}''$ $1rac{7}{8}''$	5/16''	2 2	} Gearbox

BEARING LIST

## CUTTER ADJUSTMENT AND SETTING

The cutters are held in the block by wedges and each cutter is adjusted out by three micrometer screws. Cutter setting is greatly facilitated by using the Wadkin PRECISION cutter setter, supplied to special order only, but an ordinary straight edge will suffice.

When setting cutters proceed as follows:-

- 1. Remove the cutter guard.
- 2. Swing the canting fence clear of the tables or push back as far as possible.
- 3. Withdraw horizontally the front table.
- 4. Adjust the back table to the zero position on the scale, which should bring the table surface 1/16" above the body of the cutterblock.
- 5. Place the cutter setter on the back table allowing it to project over the cutterblock as Fig. 15.
- 6. One of the knives is then adjusted level with the table surface by means of the micrometer screws using the special key provided. When correctly set the knife should lightly contact the spring controlled pad and the pointer should register zero on the scale. It is advisable to check the setting at either end and in the mid position of the block to ensure the knife is set parallel.
- 7. Lock the wedges from the centre outwards.
- 8. Set the second knife in a similar position, noting that both knives in the block must register the same, i.e. zero.

If a straight edge is used proceed as far as operation 5 and instead of the cutter setter place the straight edge on the back table as shown in Fig. 16. Set the knives so that they lightly make contact with the straight edge.



FIG. 15 PRECISION CUTTER SETTER







FIG. 18 CORRECT RUN OF GRAIN.

To obtain the best surface finish always check the direction of the grain, which should run with the cutter as in Fig. 18.

To obtain a perfectly flat surface, especially with warped stock, always put maximum pressure on the back table at 'K' Fig. 19, and as little as possible on the front table at 'L'.

Greater pressure will be required on bad grained timber, otherwise chattering will take place resulting in a coarse finish near each knot.

When planing four sides of timber square, turn the timber anti-clockwise after each cut, so that there will always be a machined side toward the fence. The fence locates accurately at  $90^{\circ}$  on machined pads and no adjustment is necessary to maintain this accuracy.



Page 18

#### ELECTRICAL INSTALLATION INSTRUCTIONS

The cabling between the motor and the control gear has been carried out by Wadkin Ltd., and it is only necessary to bring the line leads to the machine for it to be put into service. This should be done as follows:-

- (1) Fit triple pole isolating switch near the machine, unless this has been supplied to special order by Wadkin Ltd., when it will be fitted and connected up at the machine.
- (2) Connect the line lead to the appropriate terminals, see diagram. The cables should be taken to the machine in conduit and secured to the control gear by means of locknuts.
- (3) Connect solidly to earth.
- (4) Close isolating switch and press start button. If machine does not rotate in the correct direction, interchange any two incoming line leads.

### FAILURE TO START

- (1) Electric supply is not available at the machine.
- (2) Fuses have blown or have not been fitted.
- (3) Isolating switch has not been closed.
- (4) Lock-off or stop button has not been released.

#### STOPPAGE DURING OPERATION AND FAILURE TO RESTART

- (1) Fuses have blown.
- (2) Overloads have tripped. They will reset automatically after a short time, and the machine can be restarted in the usual manner.

#### ADJUSTMENT

For a finer overload setting, set the load indicator to a lower value, and vice versa for a less fine setting.

#### GENERAL

Check the earth connection from time to time. Users are recommended to display in an appropriate position in the maintenance department Wadkin Electrical Maintenance Instruction Card, No. 356, which is issued gratis on application.



DIAGRAM OF CONNECTIONS

D. 586



#### INSTALLATION INSTRUCTIONS.

FIT ISOLATING SWITCH NEAR MACHINE SO THAT THE ELECTRICAL GEAR MAY READILY BE ISOLATED FOR INSPECTION PURPOSES. BRING SUPPLY CABLES TO ISOLATING SWITCH AND TO LI-LZ-L3 AT CONTACTOR THROUGH CONDUIT WHICH SHOULD BE SCREWED INTO THE MACHINE AND SECURED BY MEANS OF LOCKNUTS. ENSURE THAT THE DIRECTION OF ROTATION IS CORRECT BEFORE PUTTING THE MACHINE INTO SERVICE, TO REVERSE ROTATION INTERCHANGE LI AND L3 AT CONTACTOR. OPERATING INSTRUCTIONS.

TO START MACHINE: CLOSE ISOLATING SWITCH AND PRESS 'START' BUTTON. TO STOP MACHINE. PRESS 'STOP' BUTTON, TO LOCK OFF MACHINE: PRESS AND TURN 'STOP' BUTTON, THIS MUST BE RELEASED BEFORE A START CAN BE MADE.

#### OVERLOAD.

SHOULD THE MACHINE STOP DUE TO OVERLOAD, WAIT FOR A SHORT TIME TO ALLOW THE HEATER COILS TO COOL THEN START IN THE USUAL MANNER. THE OVERLOADS ARE SET AT THESE WORKS AT AUTO' FOR AUTOMATIC RESET AFTER TRIPPING. IF SET AT 'HAND' THE PLUNGER ON THE OVERLOAD ASSEMBLY SHOULD BE DEPRESSED TO RESET.

# ... blow away harmful dust, chips and dirt with a Wadkin Electric Blower

No motor can run at its maximum efficiency with its ventilating duct or control gear covered with dust and dirt. Sooner or later the resultant overheating will cause serious trouble.

Similarly, accumulations of chips and dust, in the mechanical parts of the machine can interfere with its efficiency. A few minutes a week for blowing down all Woodworking Machinery will be amply repaid in better and easier running, in increased life, and freedom from breakdown.

Blowers can be supplied for single phase A.C. or Direct Current for any voltage up to 250.

Please state voltage when ordering.



#### SPARE PARTS

 $\left[ \right]$ 

 $\left[ \right]$ 

 $\left[ \right]$ 

Should spare parts be required due to breakage or wear full particulars including the machine and test number must be given. This information is on the nameplate attached to the machine and will be similar to the picture below.

YELAND FD 3134 MACHINE SERIAL NO. RACHINE TEST NO. 75001 PATENT NO. VOLLAGE CYCLES Filas 50 400 SEE MAINTENANCE INSTRUCTION BOOK FOR LUBRICATION DETAILS

Please see the next page for sample detail of how to order spare parts.

FM1006/1/FM360 GEAR CHANGE LEVER FM1006/1/FM507 MOTOR SWING PLATE

- FM1006/1/FM120

FM1006/1/FM203

FM1006/1/FM307

DUST COVER

PARTS REQUIRED

SUPPORT BRACKET L.H.

GEAR CHANGE LEVER BOSS

68975

MACHINE NO:

TEST NO:

MACHINE:

FM 18"

1407

SAMPLE TYPE ORDER

C  $\left[ \right]$  $\int$  $\left[ \right]$  $\left[ \right]$ [ſ 

1

1

1

1

1

FM1006/1/FM5 SPROCKET FOR FEED ROLLER BLOCK FOR FRONT PRESSURE BAR FM1006/1/FM7 FM1006/1/FM9 BEARING FOR FEED ROLLER 12" DIAMETER RISE AND FALL HANDWHEEL FM1006/1/FM19 FM1006/1/FM20 PACKING PIECE FOR THICKNESSING SCALE FM1006/1/FM26 INFEED PRESSURE BAR (18" MACHINE) OUTFEED PRESSURE BAR (18" MACHINE) FM1006/1/FM27 FM1006/1/FM104 STOP FOR PRESSURE BARS FM1006/1/FM112 DUST PLATE FOR ROLLER BEARING BLOCK FM1006/1/FM115 BUSH FOR HANDWHEEL SHAFT FM1006/1/FM117 CHAINWHEEL FOR HANDWHEEL SHAFT FM1006/1/FM118 COVER PLATE FOR HANDWHEEL SHAFT FM1006/1/FM119 DUST COVER FM1006/1/FM120 DUST COVER BLOCK FOR REAR PRESSURE BAR (R.H.) FM1006/1/FM131 FM1006/1/FM132 BLOCK FOR REAR PRESSURE BAR (L.H.) HANDWHEEL SHAFT FM1006/1/FM143 PLAIN OUTFEED ROLLER (18" MACHINE) FM1006/1/FM148 FLUTED INFEED ROLLER (18" MACHINE) FM1006/1/FM150 TIE BAR FOR BRIDGE PIECE (18" MACHINE) FM1006/1/FM165 SCRAPER FOR OUTFEED ROLLER (18" MACHINE) FM1006/1/FM166 FM1006/1/FM174 FILLING IN PIECE BETWEEN STRETCHER (18" MACHINE) SUPPORT BRACKET R.H. FM1006/1/FM202 FM1006/1/FM203 SUPPORT BRACKET L.H. FM1006/1/FM254 SCREWED SHAFT (TABLE ROLLER ADJ.) FM1006/1/FM258 POINTER FOR THICKNESSING TABLE SUPPORT ROLLER (18" MACHINE) FM1006/1/FM265 ISOFUSE COVER (R.H. STRETCHER) FM1006/1/FM305 GEAR CHANGE LEVER BOSS FM1006/1/FM307 FM1006/1/FM310 GEAR CHANGE BRACKET STRETCHER (R.H.) (18" MACHINE) FM1006/1/FM312 FM1006/1/FM314 COVER (R.H. STRETCHER) FM1006/1/FM358 GEAR CHANGE SHAFT FM1006/1/FM360 GEAR CHANGE LEVER FM1006/1/FM361 GEAR CHANGE CONNECTING LINK FM1006/1/FM408 DROP ARM FOR CONNECTING LINK PIN FOR DROP ARM FM1006/1/FM472 FM1006/1/FM501 MOTOR PIVOT BRACKET SIDE FRAME MOTOR PIVOT BRACKET (STRETCHER) FM1006/1/FM502 FM1006/1/FM507 MOTOR SWING PLATE FM1006/1/FM508 MOTOR SWING PLATE

FM1006/1/FM554 MOTOR PIVOT SHAFT FM1006/1/FM558 TIE BAR LOCKING SHAFT FM1006/1/FM559 TIE BAR PIN FM1006/1/FM560 MOTOR PULLEY (GEARBOX) FM1006/1/FM563 TIE BAR FM1006/1/FM568 MOTOR PULLEY (CUTTERBLOCK) FM1006/1/FM603/A SLIDE FOR SURFACING TABLE (18" MACHINE) FM1006/1/FM604 SURFACING TABLE FM1006/1/FM651 LIP PLATE FOR SURFACING TABLE LIP PLATE FOR SURFACING TABLE FM1006/1/FM652 FM1006/1/FM653 CLAMP NUT FM1006/1/FM654 CLAMP NUT HANDLE FM1006/1/FM655 POINTER FM1006/1/FM656 DOVETAIL CHECKSTRIP FM1006/1/FM659 CHECK STRIP FOR TABLE FM1006/1/FM660 LOCKING PLATE CHECK STRIP FOR SURFACING TABLE FM1006/1/FM661 BRACKET FOR CUTTERBLOCK GUARD FM1006/1/FM701 SLIDE BAR FOR TELESCOPIC GUARD FM1006/1/FM752 POST FOR TELESCOPIC GUARD FM1006/1/FM755 TELESCOPIC GUARD FM1006/1/FM764 RACK SHAFT FOR FENCE FM1006/1/FM951 SPRING FM1006/1/EV65 SPRING HOLDER FM1006/1/JP474 FM1006/1/MH57 SCREW STOP

STOP SCREW FOR BRIDGE PIECE FM1006/1/MJ116 BEARING FOR TABLE SCREW FM1006/1/MK9 NUT FOR TABLE SCREW FM1006/1/MK10 FM1006/1/MK78/A TABLE SCREW TABLE EXTENSION FM1006/1/RD17 FENCE FM1006/1/RD19/A SCALE FM1006/1/SSR6 FM1006/1/SSR 151 SCALE FOR SURFACE PLANER TABLES SCALES FOR SURFACE PLANER TABLES FM1006/1/SSR 152 SLIDE ADJUSTMENT SCREW

FM1006/1/1ASLIDE ADJUSTMENT SOFM1006/1/1ATEE LOCKING HANDLEFM1006/1/1BHANDWHEELFM1006/1/2HORN HANDLEFM1006/1/2A6" HANDWHEELFM1006/1/3LOOSE COLLARFM1006/1/4LOOSE COLLAR

$\Gamma$	FM1008/FM1	FRONT BRIDGE PIECE
	FM1008/FM2	REAR BRIDGE PIECE
	FM1008/FM3	BEARING CAP FOR FRONT BRIDGE PIECE
	FM1008/FM11	C/BLK END CAP
۹.,,	FM1008/FM14	HINGED COVER FOR R.H. SIDE FRAME
ſ	FM1008/FM24	R.H. SIDE FRAME
U	FM1008/FM25	L.H. SIDE FRAME
C	FM1008/FM103	SLEEVE FOR CUTTERBLOCK
L	FM1008/FM108	LIFT PLATE FOR INFEED PRESSURE BAR
ſ	FM1008/FM109	SPRING ROD FOR PRESSURE BAR
l	FM1008/FM110	SPRING ROD FOR FEED ROLLERS
	FM1008/FM111	CLAMP PLATE FOR C/BLK GUARD
	FM1008/FM121	SERRATED WASHER FOR IDLER PLATE
(	FM1008/FM144	PIN FOR IDLER SPROCKET
	FM1008/FM145	IDLER PLATE
$\cup$	FM1008/FM156	PRESSURE BAR BLOCK
C	FM1008/FM180	CUTTERBLOCK
L.	FM1008/FM204	NUT FOR RAISING SCREW
۲.	FM1008/FM206	THICKNESSING TABLE
E	FM1008/FM255	LINK (TABLE ROLLER ADJ.)
6	FM1008/FM259	ROCKING SHAFT
- <b>}</b>	FM1008/FM260	TABLE ROLLER BEARING BLOCK
ĻΣ	FM1008/FM264	TABLE ROLLER
	FM1008/FM306	SPIRAL GEAR FOR RAISING MOTION
L	FM1008/FM351	RAISING SCREW BUSH
ſ	FM1008/FM352	RAISING GEAR COVER
L	FM1008/FM353	SPACING SLEEVE
(	FM1008/FM354	SPACING COLLAR
L	FM1008/FM355	RAISING SCREW
Ċ.	FM1008/FM357	RAISING CHAINWHEEL
L	FM1008/FM362	CHAINWHEEL SPINDLE
	FM1008/FM363	BUSH FOR L.H. STRETCHER
}	FM1008/FM364	BUSH FOR L.H. STRETCHER
C	FM1008/FM901	CUTTERGUARD BEHIND FENCE
£		
_)	FM1008/RD16	FENCE BRACKET
ſ	FM1008/RD20	SLOTTED LINK
L	FM1008/RD25	FENCE BASE
£	FM1008/RD26	FLANGE FOR FENCE RACK SHAFT
L	FM1008/RD36	RACK PINION AND SPINDLE
C	FM1008/RD39/A	STUD FOR FENCE BRACKET
	FM1008/RD40	FULCRUM LINK

.

[

FM1002/FM451

INPUT SHAFT

FM1008/RD41 LOCKING BOLT FM1008/RD43 PIVOT PIN FM1008/RD45 PLATE FOR FENCE FM1008/RD79 STUD FOR FENCE BRACKET FM1008/RD81 PLATE FOR FENCE BOLT FM1008/RD83 PLATE FOR FENCE FM1008/RE135/A PRESSURE SPRING FM1008/RK50 CATCH FM1008/RK188 HANDLE FM1008/RM11 LINK FOR ROCKING SHAFT FM1008/RM12 FEED MOTOR BRACKET FM1008/RM67 ECCENTRIC FM1008/RM70 SWIVEL NUT FM1008/RM71 LINK PIN WINGNUT FOR FEED ROLLER SPRING ROD FM1008/RM245 WINGNUT FOR PRESSURE BAR SPRING ROD FM1008/RM246 FM1008/RM258 PRESSURE SPRING IDLER SPROCKET FM1008/RW33 FM1008/ACL2 TECALEMITE CONNECTION BEARINGS FM1008/FBC DN2062 TECALEMITE CONNECTION FM1008/IE4820 TECALEMITE CONNECTION FM1008/IE8281 FM1008/MK243 PINIONS INA NEEDLE BEARINGS FM1008/SCI 1616 FM1008/SKF010 SKEFCO BEARINGS FM1008/SKF012 SKEFCO BEARINGS FM1008/SKF2308 SKEFCO BEARINGS FM1008/5A LÖCKNUT LOCKNUT FM1008/5B FM1008/7 LOOSE COLLAR FM1002/FM402 COVER FOR GEARBOX FM1002/FM404 GEARBOX PULLEY 50 CYCLE DRIVE FM1002/FM405 GEARBOX PULLEY 60 CYCLE DRIVE FM1002/FM407 ARM FOR SELECTOR FORK SELECTOR FORK FM1002/FM409 FM1002/FM410 DROP ARM FOR CONNECTING LINK FM1002/FM412 **GEARBOX** 

FM1002/FM452 GEAR SHAFT FM1002/FM453 SLIDING GEAR SHAFT FM1002/FM455 SPUR GEAR FM1002/FM456 SPUR GEAR FOR INPUT SHAFT FM1002/FM458 OUTPUT SHAFT FM1002/FM459 COVER FOR GEARBOX FM1002/FM460 COVER FOR GEARBOX FM1002/FM461 BUSH FOR GEARBOX FM1002/FM462 BUSH FOR GEARBOX FM1002/FM464 PIN FOR SELECTOR FORK FM1002/FM472 PIN FOR DROP ARM FM1002/FM473 GEARBOX DIP STICK FM1002/FM474 GEARBOX FILLER PLUG FM1002/FM475 SPACING SHIM FM1002/FM479 GROOVED SELECTOR SHAFT FM1002/FM480 PLAIN SELECTOR SHAFT SHAFT FOR SELECTOR FORK ARM FM1002/FM483 DRIVING SPROCKET FM1002/FM485

FRONT CAP FOR OUTPUT SHAFT FM1002/RK619 COVER PLATE FM1002/RK810 BEARING LOCKING WASHER FM1002/RK820 SPACING SLEEVE FM1002/RK822 PINION 15T 6DP FM1002/RM53 SLIDING TRIPLE GEAR 27, 39, 33T 8P. FM1002/RM54 SPUR GEAR 33T 8P FM1002/RM55 SPUR GEAR 21T 8P FM1002/RM56 SPUR GEAR 27T 8P FM1002/RM57 SPUR WHEEL FM1002/MK51

FM1002/189125GACO OIL SEALFM1002/DN 2075FISCHER BEARINGFM1002/DN 2100FISCHER BEARINGFM1002/1ABALL BEARING LOCKNUT

FM1002/RM53	PINION 15T 6 DP
FM1002/RM54	SLIDING TRIPLE GEAR 27, 39, 33T 8P
FM1002/RM55	SPUR GEAR 33T 8P
FM1002/RM56	SPUR GEAR 21T 8P
FM1002/RM57	SPUR GEAR 27T 8P

÷

FM1002/RM57	SPUR GEAR 27T 8P
FM1002/MK51	SPUR WHEEL
FM1002/189125	GACO OIL SEAL
FM1002/DN 2075	FISCHER BEARING
FM1002/DN 2100	FISCHER BEARING
FM1002/1A	BALL BEARING LOCKNUT
	wadkin.com

 $\left[ \right]$ 

 $\left[ \right]$ 

C

 $\left[ \right]$ 

 $\int$ 

Ũ

 $\sum_{i=1}^{n}$ 

C

E

 $\int$ 

 $\int$ 

 $\left[ \right]$ 

E





















مسترحم والمرافع والمراف

.