

MTF 216/1100T

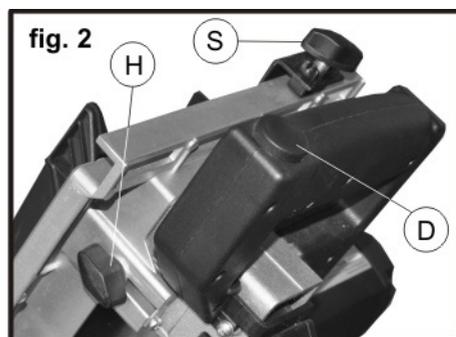
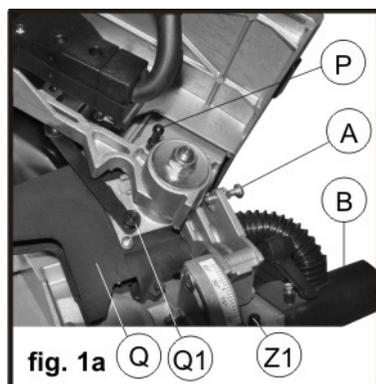
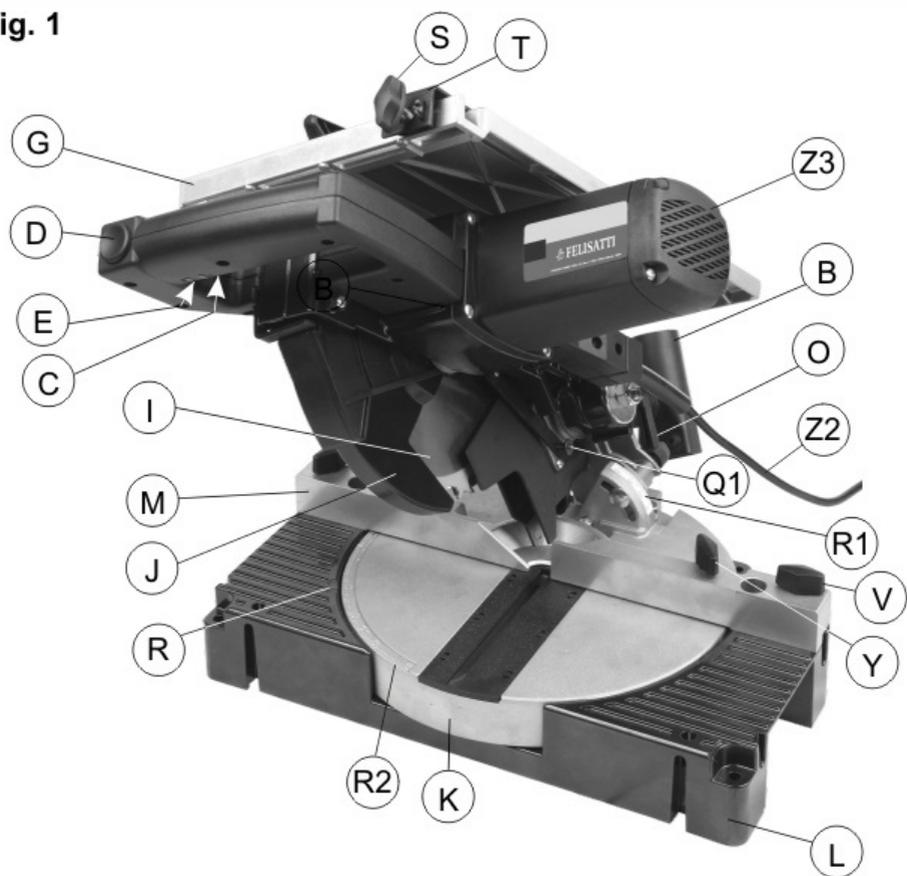
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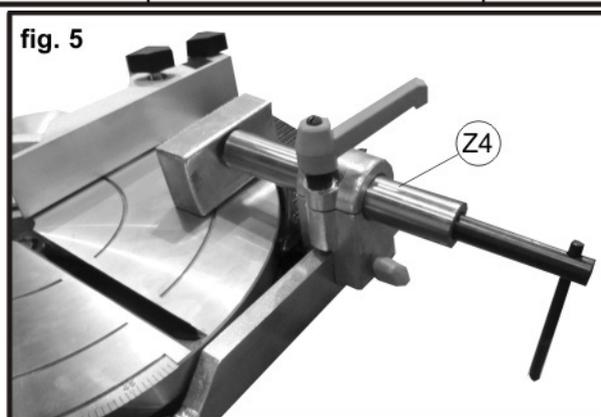
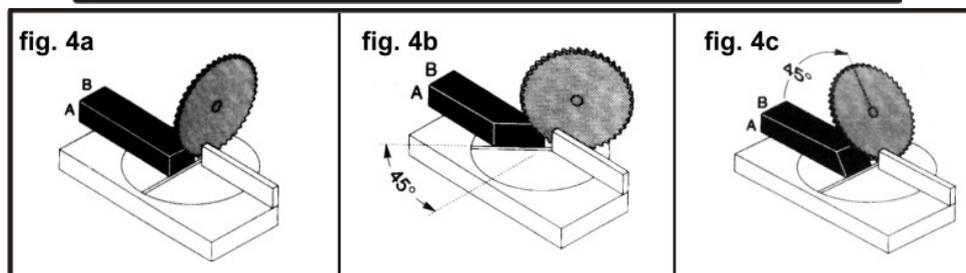
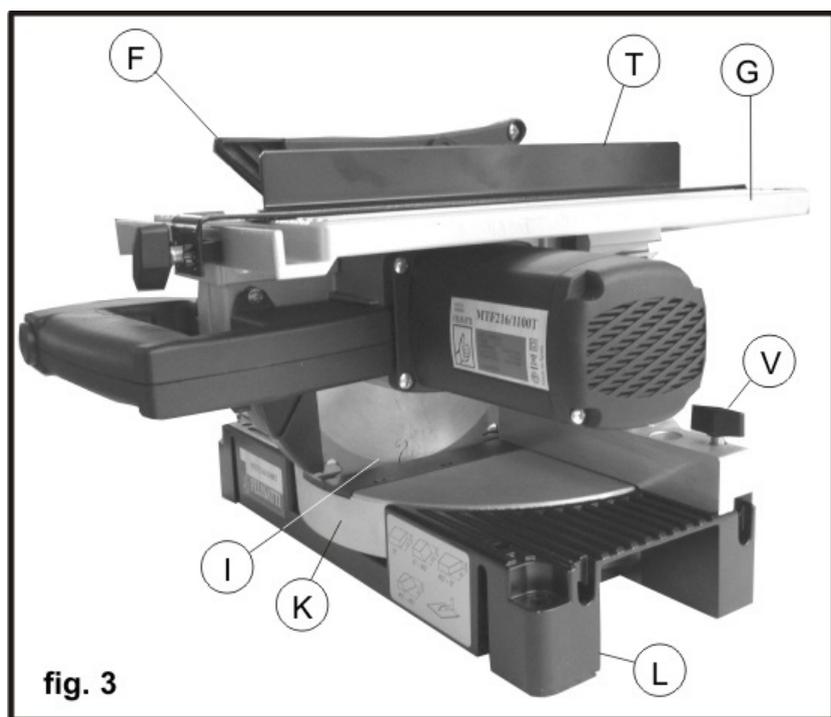
- (GB)** Operating Instructions
- (E)** Instrucciones de servicio
- (D)** Bedienungsanleitung

MITRE SAW
INGLETADORA
GEHRUNGSSÄGE



fig. 1







TECHNICAL DATA			
Mitre saw		MTF216/1100T	MTF250/1500T
Absorbed power	W	1100	1500
No-load speed	/ min	5000	4300
Cut at 90°/mitre (AxB Fig.4 a)	mm	58x133	70x150
Cut at 45°/mitre (AxB Fig.4 b)	mm	58x90	70x85
Cut at 90°/blade at 45° (AxB Fig.4 c)	mm	35x1330	47x150
Cut on upper bench	mm	31,5	45
Upper bench dimensions	mm	224x358	264x385
Blade diameter	mm	216	250
Blade hole diameter	mm	20(30)	20(30)
Weight	Kg	9,5	11
Overall dimensions (LxHxW)	mm	427x277x531	460x450x300
Acoustic pressure, Lpa	dBA	96	92
Sound power emitted, Lwa	dBA	109	105
Vibration level (according to ISO 8041 and ISO 5348)	m/sec ²	2,5	3,9

Carefully observe the instructions in this manual, keep it in a safe place at hand for any possible checks on the parts indicated. If the tool is used with care and a normal maintenance is carried out, it will have a long life.

- Z1 Adjustment bolt (Fig.1)
- Z2 AC cable (Fig.1)
- Z3 Brush holder cover (Fig.1)
- Z4 Clamp (Fig.5) (Optional accessory)

GENERAL INFORMATION

IDENTIFICATION (See indicated figures)

- A Saw penetration adjustment screw (Fig.1a)
- B Uptake connection nozzle (Fig.1,1a)
- C Pushbutton switch (Fig.1)
- D Safety hook release button (Fig.1)
- E Switch lock button (Fig.1)
- F Upper bench saw protector (Fig.3)
- G Upper bench (Fig.1,1a)
- H Upper bench blocking handles (Fig.2)
- I Saw blade (Fig.1,2)
- J Mobile guard (Fig.1)
- K Turntable (Fig.1)
- L Base (Fig.1,3)
- M Fixed guide (Fig.1)
- O Motor unit blocking lever (Fig.1)
- P Position lock pin (Fig.1a)
- Q Fixed saw protection, extractable (Fig.1a)
- Q1 Protection button (Fig.1,1a)
- R Scale index (Fig.1)
- R1 Graduated scale for turning the motor unit (Fig.1)
- R2 Graduated scale turntable (Fig.1)
- S Guide fixing butterfly (Fig.1,2)
- T Upper bench guide (Fig.1,3)
- V Handles (Fig.3) (Optional accessory)
- Y Bench fixing bolt (Fig.1) (internal)

TECHNICAL CHARACTERISTICS

The robust and highly reliable structure makes these mitres suitable for cutting wood, aluminium and steel in industrial environments, while preserving their usual ease of handling and without restricting their movement.

The MTF216/1100T and MTF250/1500T are fitted with a wide upper table that allows the mitre saw to be transformed into a table saw to carry out cutting (up to a thickness of 45 millimetres). The MTF216/1100T and MTF250/1500T are fitted with two working tables (upper and lower), and have been provided with a switch to keep the circuit on while pressing, and a lock-on button for free-hands operation when working on the upper bench.

The MTF216/1100T and MTF250/1500T are fitted with a new electronic device to prevent the machine from starting unexpectedly after a break in the voltage supply. When this happens, to restart you must operate the switch to switch-off and then to switch-on.

A single operator is needed to use the mitre saw, of which the design and construction comply with standards EN 61029-1 and EN 60204-1.

SAFETY DEVICES

- **At rest, the blade is totally covered by two protectors**, one fixed and one mobile, which are automatically opened by the descent of the blade unit when cutting.
- On the upper bench, the blade is covered by one protection

which is raised by the work when it comes close to the cut.
WARNING – these protectors must not be removed, in order to prevent danger for the operator.

- In the event that the switch lock button has not been engaged, the machine will stop automatically when the handgrip is released.

WARNING – engaging the lock button disables the safety device provided by the manufacturer and enables push-button start. It is recommended that this device be used with the utmost caution.

The tool has been designed and built so that it is possible to work in all situations with total safety, however, in special working conditions, gloves and protective goggles should be worn.

The tool has been designed and built to reduce noise to a minimum (see technical data), however, in special conditions the maximum noise level in the workplace might exceed 85 dB(A). In this case, the operator should protect himself from excessive noise by using ear protectors.

GENERAL SAFETY REGULATIONS

See manual “**Safety instructions**” which is supplied together with this instructions manual.

INSTALLATION

1. ELECTRICAL CONNECTION

Before connecting the machine to the mains, one must make sure that it complies with current regulations in the country where it is used and that the voltage and frequency are as indicated on the characteristics plate.

When extensions are used, make sure that the cross section of the cables is suited to their length. If using roll up extensions, make sure that they unroll completely in order to prevent overheating.

WARNING – before plugging in the machine, make sure that the switch lock button is released.

2. WORKPLACE

The tool that you have purchased is a transportable or semi-stationary electric tool. Only one operator is needed to use it, given its structure, weight and ease of handling.

In normal use, the operator is in front of the machine with the handle to his right. The right hand on the handle allows the machine to be handled completely, in fact, the switch and a safety hook may be accessed without releasing the handle.

CONSTANT ELECTRONICS

The built-in module permits:

- Soft start.
- The maintenance of a practically constant rated speed up to rated power.
- An overload protection system by means of current cut-off in the case of motor overload, in which case the burring machine shuts down and re-starts when the grinding pressure has been reduced.

MITRE SAW ADJUSTMENT - SQUARING

The mitre is delivered by the manufacturer already adjusted and squared according to standard parameters.

WARNING – before making any adjustment of the mitre, unplug the machine.

1. BLADE UNIT LIFTING

An internal spring keeps the motor unit at rest position (raised). In this position, a safety hook prevents the unit from being activated accidentally.

1.1 To unlock the motor unit and to be able to use the machine as a mitre saw, activate the front button **D** (Fig.1) (the operation may be carried out with the right hand on the handle).

1.2. To use the machine as a bench circular saw, unlock the motor unit as indicated in 1.1, and after lowering it completely, block it with pin **P** (Fig.1a).

2. BLADE PENETRATION ADJUSTMENT

The depth of penetration has already been adjusted by the manufacturer during testing.

As incorrect adjustment may cause sharpness to be lost quickly and/or the teeth of the blade to be broken, further adjustment might be needed, in which case it will be necessary to work as follows:

- Activate bolt **A** (Fig.1a) and the corresponding lock nut to create a lower limit for the motor housing ideal for preventing the blades from coming into contact with the turntable.

WARNING – once for this operation is complete, make sure that the blade is NOT in contact with the turntable and that the lock nut is tightened.

3. TURNTABLE ADJUSTMENT

0° Regulation (Fig.3)

- Lower the head of the machine and lock with pin **P** (Fig.1a).
- Set the turntable to zero.
- Loosen the handles **V**, remove the guides **X** – Optional accessory and loosen bolts **Y**.
- Set a square between the saw blade and guide **M** (Fig.1).
- Keeping the turntable at zero, move the guide to 90° on the square.
- Tighten bolts **Y**, assemble guides **X** and adjust handles **V** – optional accessory.

4. ADJUSTING THE SAW BLADE WITH RESPECT TO THE WORKING PLANE

90° adjustment (Fig.2)

- Lower the head of the machine and lock with pin **P** (Fig.1a)
- Place a square between the base and the saw blade.
- Loosen lever **O** and adjust with bolt **Z**.
- Tighten the lock nut well to make sure that the position is fixed and tighten lever **O**.

5. VERTICAL PLANE LIMIT STOP ADJUSTMENT (0° - 45°) (Fig.2)

- Lower the head of the machine and lock it with pin **P** (Fig.1a).
- Set the turntable to zero and lock.
- Set the head to 45° and lean a 45° square between the base and the saw blade.
- Loosen lever **O** and adjust using bolt **Z**.
- Regulate the 45° using bolt **Z1** (Fig.1a), after releasing the lock nut.

- Tighten the lock nut to make sure that the position does not change.

OPERATION AND USE

1. CUTTING WITH THE BLADE AT 90° AND TURNTABLE TURNED

- Unlock the turntable **K** (Fig.1) by turning lever **Y** to the left.
- Turn the turntable with the handle, selecting the cutting angle required using the graduated scale **R2** and index **R** (Fig.1), and lock again by turning lever **Y** (Fig.1) to the right.

Note: there are pre-set cutting angles (0°, ±15°, ±22°30', ±30°, ±45°) on which the turntable may easily be locked.

2. CUTTING WITH THE BLADE INCLINED AND TURNTABLE AT 0° (Fig.6) (Optional accessory)

- Move guide **X** outwards, in the direction of the arrow, or even out of the machine for better operation. - Release the motor unit by loosening lever **O** (Fig.1).
- Turn the motor unit, selecting the required inclination using the graduated scale **R1** (Fig.1) and lock lever **O** once more.

3. USE OF THE MITRE SAW

WARNING – Make sure that the lock button E (Fig.1) is in the release position.

- Set the upper bench to the maximum height.
- Always start with the motor unit in rest position (raised with the safety hook fitted)
- Fix the material to be cut firmly to the cutting plane.
- Start and wait for the blade to reach maximum revolutions.
- Press the button releasing the motor unit.
- Gradually lower the motor unit and cut.

4. BLADE START AND STOP

WARNING – make sure that the moving protector is in the correct position when the blade is at rest (raised).

The machine is provided with a switch **C** (Fig.1) with push button, which is used to start and stop the blade. It is possible to block the switch 'ON' by pressing the lock button **E** (Fig.1)

WARNING – engaging the lock button disables the safety device provided by the manufacturer and enables push-button start. It is recommended that this device be used with the utmost caution and ONLY when using the machine as a circular saw.

To release the switch again, it is only necessary to press the button and release.

5. USE OF THE CLAMP (OPTIONAL ACCESSORY)

- Raise the saw to be able to place the wood board or the aluminium pipe on the bench for cutting and in position with respect to guide **M** (Fig.1).
- Fit the clamp **Z4** (Fig.5) if it is not already fitted, and turn the bolt until the clamp press firmly on the piece to be cut, making sure that it do not move, to avoid any accident.
- Once the operation is complete, loosen the clamp to release the piece and change the position for the next job.

6. USE OF THE UPPER BENCH

To use the upper plane, proceed as follows:

- Make sure that the lock button **E** (Fig.1) is released (standing out).
- Lower the blade unit completely and lock with pin **P** (Fig.1a).
- Release handles **H** (Fig.2) and select the height of the

upper plane, proceeding to lock the handles once more.

7. USE OF THE STOP GUIDE FOR THE UPPER BENCH (Fig.7)

Use as follows:

- Insert guide **T** in the upper bench.
- Select the cutting width.
- Lock guide **T** by tightening butterfly **U** followed by butterfly **S**.

8. MISCELLANEOUS ACCESSORIES

The machine is supplied with the uptake nozzle included **B** (Fig.1) and may therefore be connected easily to any vacuum cleaner.

9. MISUSE

The functions and use of the tool that you have bought are only as indicated in this manual.

Any other use of the tool is entirely prohibited.

- Do not cut aluminium or steel on the upper plane.
- Always use sharp blades suitable for the cut to be made.
- Do not use the machine without the described protection.
- Not suitable for foodstuffs.
- Use the machine only for cutting wood, aluminium profiles, PVC tubes, steel pipes and only with the right blade.

The cutting of any other material is entirely prohibited.

MAINTENANCE

WARNING - before any maintenance operation, unplug the machine.

1. LUBRICATION

The mitre saw is delivered with in all moving parts of the motor and gearbox entirely lubricated and needs no further lubrication operations.

Regular lubrication is recommended of the joints of the moving controls.

2. ORDINARY CLEANING

WARNING - avoid touching the handle with hands dirty with oil or grease. In such an event, clean immediately.

- Carefully clean the machine after use with dry compressed air.

3. DISPOSAL

When the life of the machine is at an end or when it can no longer be repaired, make sure that the scrap is disposed of in observance of current regulations in the country of use and that the operation is undertaken by specialised personnel authorised in the matter.

PART REPLACEMENT

WARNING – before carrying out any replacement, unplug the machine.

1. REPLACING THE SAW BLADE I (Fig.1)

Replace as follows:

- Set the head to fully open (Fig.1)
- Raise the upper bench as far as is allowed.
- Release the moving protection **Q** (Fig.2) working on button **Q1** (Fig.1a) and raise completely.
- Fit the spanner provided in the holes of the clamp, keeping the shaft locked with another tubular spanner supplied by the manufacturer, and unscrew the left bolt until the saw blade is

released (Fig.2).

- Push the blade to the left and upwards at the same time to remove it from its housing. Then extract downwards.
- Fit the new saw blade, making sure that the teeth are directed towards the part indicated by the arrow on the blade cover; fit well to the shaft and lower the moving protection.

Note: if the version of the machine does not have the shaft locking system as described (the case of the first series manufactured), the saw blade must be blocked using a bar or a screwdriver in the hole of the saw blade, leaning against the firm structure of the machine.

2. REPLACING THE BRUSHES

The brushes must be replaced after every 150 - 200 hours of use or when they have reached a length of 5-6 mm. Go to an authorised service centre for this change.

3. REPLACING THE SUPPLY CORD **ZZ** (Fig.1)

Make sure that the supply cable is in a good state and if not, go to an authorised service centre for it to be changed.

GUARANTEE

See general Guarantee conditions printed on an adjoining sheet.

DECLARATION OF CONFORMITY

We hereby declare, under our own responsibility, that the FELISATTI products described in this manual MTF216/1100T and MTF250/1500T comply with the following standards or standard documents: EN 61029-1, EN 55014 and EN 61300-3 in accordance with EU Directives 73/23/EEC, 89/336/EEC, 98/37/EEC and 2002/95/EEC.

Jordi Carbonell



Santiago López



We reserve the right to make technical changes.

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