

2

MANUAL

EDILGRAPPA

ELECTRIC SHEAR

T32N

INSTRUCTIONS

USE AND MAINTENANCE

ELECTRIC SHEAR T32N

AVAILABLE IN THE FOLLOWING VERSIONS:

- SINGLE-PHASE ELECTRIC MOTOR 230 V 50 Hz

| FIXED HEADS AVAILABLE | NAME OF MACHINE | P/N |
|-----------------------|-----------------|-----------|
| CUTTING HEAD | T32N | 1.50.1916 |

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A brief legend indicating the most important symbols used in this manual is shown below.



THIS SYMBOL WARNS USERS TO PAY SPECIAL ATTENTION WHEN FOLLOWING THE RELATIVE INSTRUCTIONS. FAILURE TO OBSERVE THESE INSTRUCTIONS CAN CAUSE THE MACHINE TO OPERATE INCORRECTLY.



THIS SYMBOL INDICATES POSSIBLE HAZARDS, TAKE ALL PRECAUTIONS TO PREVENT THESE SITUATIONS FROM OCCURRING.



BEFORE WORKING ON THE MACHINE, CAREFULLY READ ALL THE INSTRUCTIONS, ESPECIALLY THOSE CONTAINED IN BOXES.

- “OPERATOR”:** A person suitably trained and authorised to operate, adjust, clean and transport the machine.
- “MAINTENANCE MAN”:** A person trained and authorised to perform routine maintenance on the machine and replace certain components.
- “MACHINE”:** The equipment described in this manual.
- “ELECTRIC TOOL”:** Used in the safety precautions, it is a more general definition of the machine in question as it refers to mains-powered electric tools (with cable) or battery-powered electric tools (cordless).

0 DESCRIPTION OF THE MACHINE



CAUTION!! FIRST READ THE MANUAL REGARDING THE GENERAL AND SAFETY REGULATIONS!

0.01 MACHINE COMPONENTS

This machine is fitted with a single-phase alternating current motor.

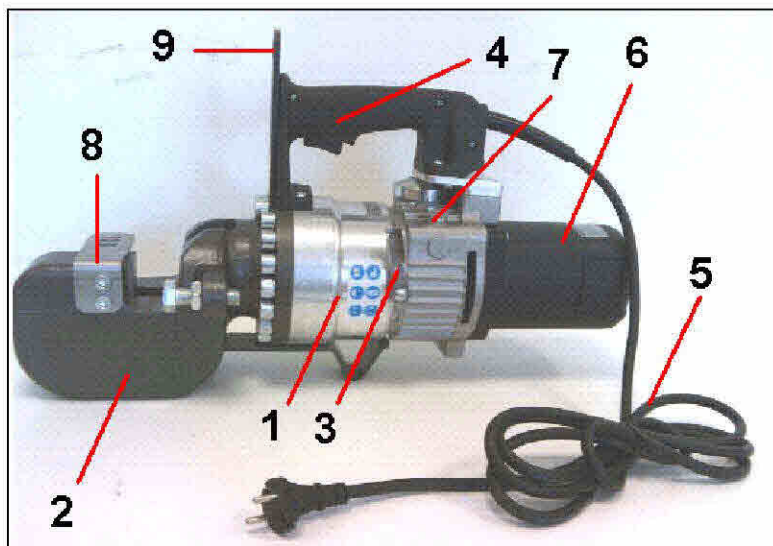
The equipment comprises:

- a motor,
- a hydraulic pump driven by the motor,
- a rod actuator (piston) driven by the oil pressured by the pump,
- a fixed head with tool.

Figure 1 shows the main parts of the equipment, in particular:

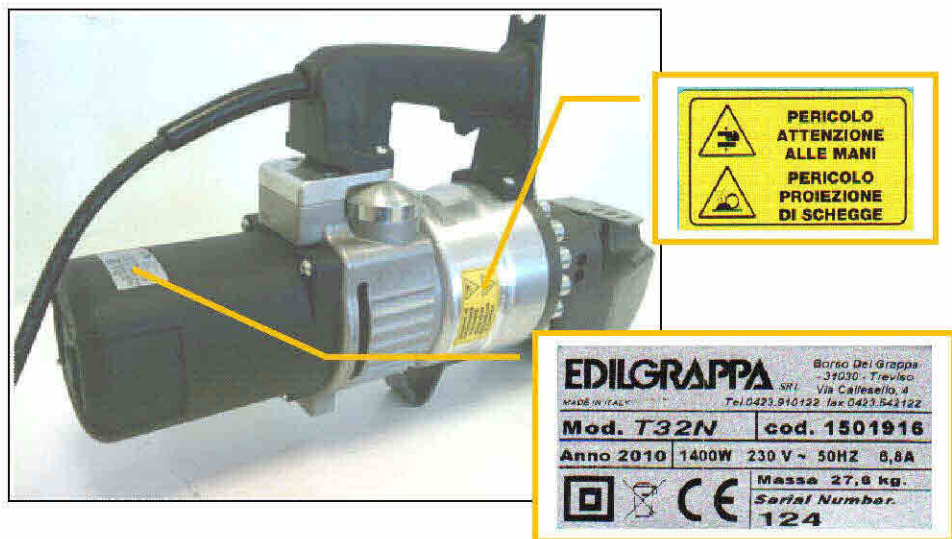
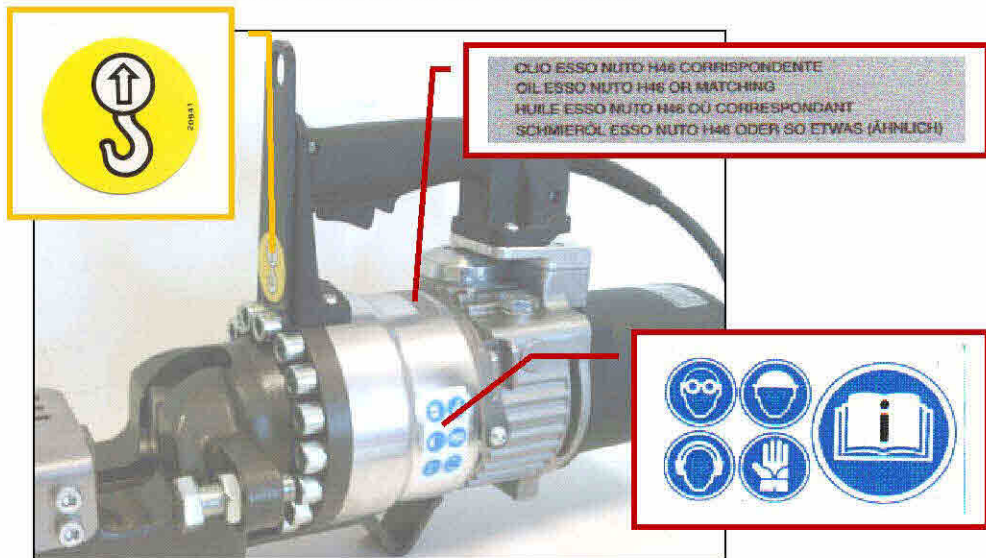
1. cylinder with hydraulic components
2. head with tools
3. manual release valve
4. grip with start button
5. electrical connecting cable complete with plug
6. electric motor
7. oil cap
8. safety protection

Fig. 1



0.02 SAFETY AND DANGER STICKERS - CE PLATE

Position of plate and safety and danger stickers on the machine:



Observe the warnings on the plates and stickers. Failure to do so could lead to injury or death. Make sure the plates and stickers are attached and legible. If not, apply them or request the maker for replacements.

0.03 LIST OF ACCESSORIES INCLUDED IN THE SUPPLY

- Case
- General safety rules, Use and maintenance instructions
- Declaration of conformity
- Warranty certificate
- Emergency key

1 TECHNICAL FEATURES

1.01 HYDRAULIC, MECHANICAL AND ELECTRICAL SPECIFICATIONS

| | |
|--|---------------------------------------|
| Maximum cutting size and characteristics of material [mm and daN/mm ²] | Ø 32 mm / R=65 daN/mm ² |
| Maximum output force from rod [t] | 49,6 |
| Maximum operating pressure [bar] | 700 |
| Dimensions: Length X Width X Height [mm] | 558 X 175 X 320 |
| Weight [kg] | 27,6 |
| LwA Guaranteed sound power level No-load (CEI EN 60745-1 and CEI EN 60745-2-8) [dB] | 101 |
| No-load operator Lpa (CEI EN 60745-1 and CEI EN 60745-2-8) [dB] | 90 |
| Vibrations when cutting diam. 22 mm rod (CEI EN 60745-1 and EN ISO 5349) | 2,12 m/s ² |
| | |
| Input voltage [V] | 230 |
| Frequency [Hz] | 50 |
| Electrical power [W] | 1400 |
| Input current [A] | 6,8 |
| Insulation class | II |
| RPM | 14000 |

2 DELIVERY, COMMISSIONING AND SET-UP

2.01 DELIVERY

The machine is normally shipped and delivered inside a special hard case, well secured and in a stable position (see adjacent figure). All the ordered material is inspected before delivery to the customer.



Upon receipt, check the machine for any damage (breakages or major denting) caused during transport. If so, it is necessary to immediately inform the shipping company and to write on the Delivery note the "Accepted subject to checking" clause.



In the event of damage, send a written complaint to the forwarder within 8 days of receipt.

Promptly inform Edilgrappa s.r.l. if major damage, caused during transport, is found upon receipt, or if any parts are missing.



It is also necessary to check the delivered materials against the detailed shipping list.

The machine can be moved easily both when it is inside its special rigid case, using the upper handle, and by gripping its upper or lower handle.



Loads must be moved in compliance with current occupational safety regulations.

After use, put the machine back into its case or place it on a stable surface, making sure this can withstand its weight.

2.02 ELECTRIC MOTOR

2.02.01 ELECTRICAL CONNECTIONS



THE USER SYSTEM AND THE RESPECTIVE CONNECTIONS MUST BE MADE IN STRICT OBSERVANCE OF THE REGULATIONS IN FORCE, BY COMPETENT PERSONNEL QUALIFIED TO DO THE JOB.



BEFORE CONNECTING THE APPLIANCE BY MEANS OF THE PLUG SOCKETS, TURN THE MAIN SWITCH TO OPEN POSIITON "O".

2.02.02 COMMISSIONING

These machines do not need any adjustment or particular precautions before commissioning.

The only controls to perform concern:

- Machine integrity:
make sure that nothing happened during transport that could damage the insulation or mechanical parts.
- Completeness of supply:
check that all the supplied accessories are fitted.
- Oil level:
check the oil level and top up if necessary as per the instructions in Para 3.01.



IMPORTANT: Before loosening the oil cap carefully read the instructions in Para 3.01.

2.03 MANUAL RETURN VALVE

The manual return lever has two positions (see fig. 2)

- Position 1: valve closed. The piston work and return stroke takes place automatically.
- Position 2: valve open. To interrupt the work stroke or in case of emergency move the valve to position 2 to return the piston to its home position.

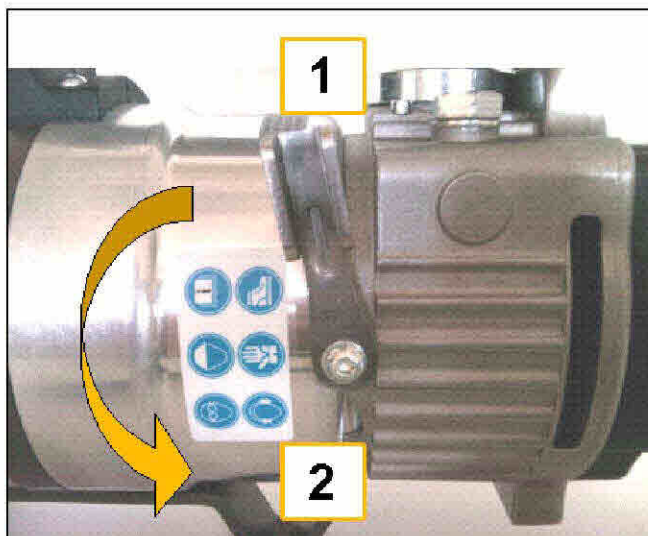


Fig. 2



IMPORTANT: If the machine does not work make sure the manual return valve is in position 1.

2.04 EQUIPMENT OPERATION

2.04.01 STARTING

Insert the plug in a suitable power socket and follow the instructions below, depending on the kind of machine involved.

2.04.02 CUTTING

Position the blade perpendicular to the axis of the work piece (fig. 3A).



IMPORTANT: Position the material so as to minimise the cutting thickness.



Non-perpendicular blade positions with respect to the workpiece increase cutting thickness.

If the cutting thickness is greater than the limit established for the tool its blades may break.

To cut, proceed as follows:

- Place the workpiece against the fixed blade and check screw of the head to ensure it is perpendicular to the machine axis (Fig. 3A). If necessary, adjust the check screw as indicated in Fig. 3A;
- Move the manual return valve to position 1 (see para 2.03);
- After correctly positioning the blade on the workpiece, press the start button and hold it down until cutting has been completed.

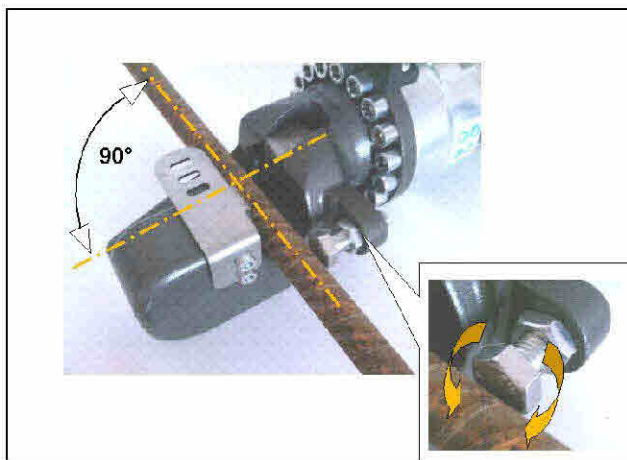


Fig. 3A



IMPORTANT: Before starting work, scrupulously follow the general precautions for use and carefully consider the conditions of use bearing in mind the technical specifications.

2.05 FORESEEN USE AND RESIDUAL RISKS

The machine must only be used to cut items in metal, such as electrowelded mesh, round bars, chains, padlocks, etc...in the building trade, industry and for emergency/rescue purposes. Maximum cutting diameter is 32 mm and the unit tensile strength of the material (steel) must not be greater than 650 N/mm². Do not use the machine to cut sheet steel or other items not mentioned above.

The machine may only be used if powered by an electrical system compliant with legislation and current law (suitably connected to an earth system and protected from current surges and short circuits).

Any use other than that expressly indicated shall be considered as improper and therefore not permitted.

Edilgrappa S.r.l. declines all liability for any improper use of the machine and for any modification or change made to it.

Operators must observe the instructions in this manual in order to minimise the risk of accidents. In particular, they must pay attention when working in conditions that could cause:

- Possible burns from overheated metal parts;
- Injury due to incorrect positioning or inadequate lifting or moving;
- Injury caused by splinters discharged from the work piece.

People remaining in the vicinities of the machine while it is working are subject to the following risks:

- flying debris (dangerous objects, etc...);

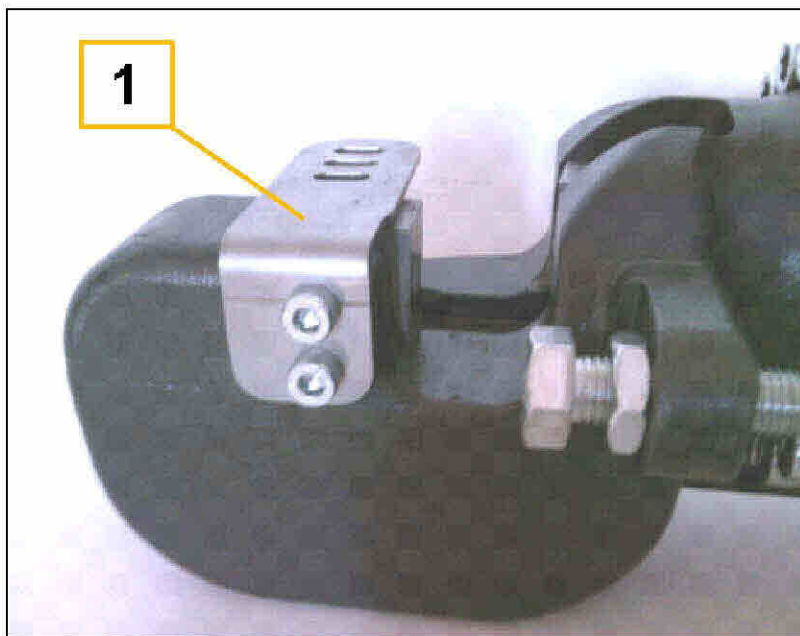
| | |
|--|---------------------------------------|
| Operating temperature | -40° + +50° C |
| Cutting Ø and max. unit tensile stress | 32 mm – STEEL R=650 N/mm ² |



- ***It is strictly forbidden to cut sheet metal.***
- ***It is strictly forbidden to use the machine for purposes other than those indicated in this installation and maintenance manual.***
- ***It is forbidden to use the machine in areas subject to the risk of explosion.***

2.05.01 SAFETY DEVICES

The machine is fitted with a safety device that prevents splinters or the workpiece from flying out. This guard is made from STAINLESS steel and is fitted to the fixed tool (n° 1 in fig. below).



Never tamper with the safety devices

3 ROUTINE MAINTENANCE



1. All maintenance, inspection and cleaning operations must be performed with the power supply disconnected and the machine cool (see the person responsible in the maintenance schedule);



2. Maintenance operations must be performed in a suitable place according to current safety regulations;
3. Before any maintenance intervention, thoroughly clean the machine (see Paragraph 5.01);
4. Wear suitable personal protective equipment while performing maintenance work.



AFTER MAINTENANCE WORK, MAKE SURE THE GUARDS ARE PUT BACK INTO THEIR CORRECT PLACE.

Periodic maintenance schedule

| Frequency | Operation | Method | Person |
|------------------|---|--------------|-----------------|
| EVERY 8 HOURS | • CHECKING THE INTEGRITY OF THE MACHINE | Visual | Operator |
| / | • CLEAN THE PISTON | Para 3.04.04 | Operator |
| EVERY 1600 HOURS | • CHANGE THE OIL | Para 3.01 | Maintenance man |
| EVERY 8 HOURS | • CHECK THE TIGHTNESS OF NUTS AND BOLTS | Para 3.02 | Operator |



In case of doubts during the maintenance interventions, to order spare parts or for complex maintenance work, contact your authorised retailer.

3.01 CHANGING AND TOPPING UP THE OIL

The oil change or top up must be performed so as to prevent impurities from contaminating the oil or entering the tank. Impurities in the oil can irreversibly damage the hydraulic parts.



**ALWAYS MAKE SURE THE OIL CONTAINS NO IMPURITIES
DO NOT USE DIRTY TOOLS
DO NOT WORK IN DUSTY AREAS**

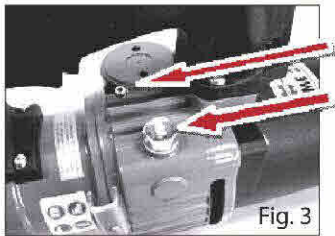
CHANGING THE OIL:



**USING A SUITABLE DISPENSER, PREPARE THE CORRECT QUANTITY OF OIL (0.6 l) TO POUR INTO THE TANK.
LEAKING OIL CAN CAUSE SHORT CIRCUITS, FIRE AND EXPLOSIONS.**

1. Place the machine horizontally in a stable position on a work surface with the magnetic cap (fig. 3) facing upwards. Place a basin under the machine to catch any oil leaks;

2. Unscrew the magnetic cap (fig. 4) and remove any residues with the piston in its retracted position;
3. Totally drain the oil tank using a suitable extraction system (used oil extraction pump) so that no oil can leak into the machine;
4. Loosen the vent screw (fig. 5);
5. Slowly pour in the correct quantity of oil (0.6 l) using suitable equipment (e.g. as shown in fig. 6). Only use new or clean recommended oil (as indicated on the next page);
6. Fill up to the upper rim of the hole;
7. Put back the oil cap and the vent screw and tighten slightly;
8. Perform some piston strokes to vent the large air bubbles;
9. Move the piston to its maximum extension and rapidly start and stop the motor several times (before the piston automatically retracts);
10. Complete filling;
11. Put back the oil cap and vent screw and tighten (figs. 4 and 5).



VENT SCREW
MAGNETIC CAP

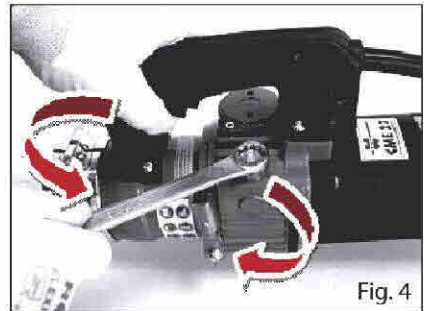


Fig. 4



Fig. 5



Fig. 6

TOPPING UP THE OIL:



Before unscrewing the magnetic cap to check the oil level, make sure the piston is fully extended and, if necessary, pull it out. If this is not done the oil may leak, air bubbles may form and/or the oil level may be incorrectly measured, thus causing the machine to operate incorrectly.

Only after completing the above operations, proceed as shown below:

1. Place the machine horizontally in a stable position on a work surface with the filling hole facing upwards. Place a basin under the machine to catch any oil leaks;
2. Move the piston to its maximum extension and rapidly start and stop the motor several times (before the piston automatically retracts);
3. Unscrew the magnetic cap (see fig. 4) and remove any residues;
4. Check the amount of missing oil;
5. Loosen the vent screw (fig. 5) and slowly top up to the upper rim of the hole with recommended new and clean oil using suitable equipment (e.g.: as indicated in fig. 6);
6. Put back the oil cap and vent screw and tighten (figs. 4 and 5).

| | |
|------------------------|---|
| Maximum quantity: | 0.6 l. |
| Type of hydraulic oil: | ESSO NUTO H46 or approved equivalents HLP46 according to DIN 51 524 MIL-H 17672 C |



When demolishing the machine or parts of it (oil, plastic, etc.) observe the regulations in force in the country in which this operation is performed.

3.02 CHECKING SCREWS

Periodically, or every day in the event of frequent or prolonged work, make sure that all the screws are perfectly tight.



FAILURE TO TIGHTEN LOCKING SCREWS CAN CAUSE SERIOUS DAMAGE.

3.03 CHECKING BLADES

The use of worn blades decreases the potential of the machine and can needlessly overheat the motor.

REPLACE AS SOON AS YOU NOTICE THEY ARE WORN.

REPLACING BLADES:

Place the machine horizontally on a stable work surface. Fully retract the piston. If necessary, move the manual return valve to position 2 (see para 2.03)

FIXED TOOL:

1. Loosen the lock screws (ref. 1 fig. 5A);
2. Remove the guard (ref. 2 cm fig. 5A);
3. Replace the fixed tool (ref. 3 in fig. 5A);
4. Put back the guard;
5. Secure the fixed tool by fully tightening the lock screws;

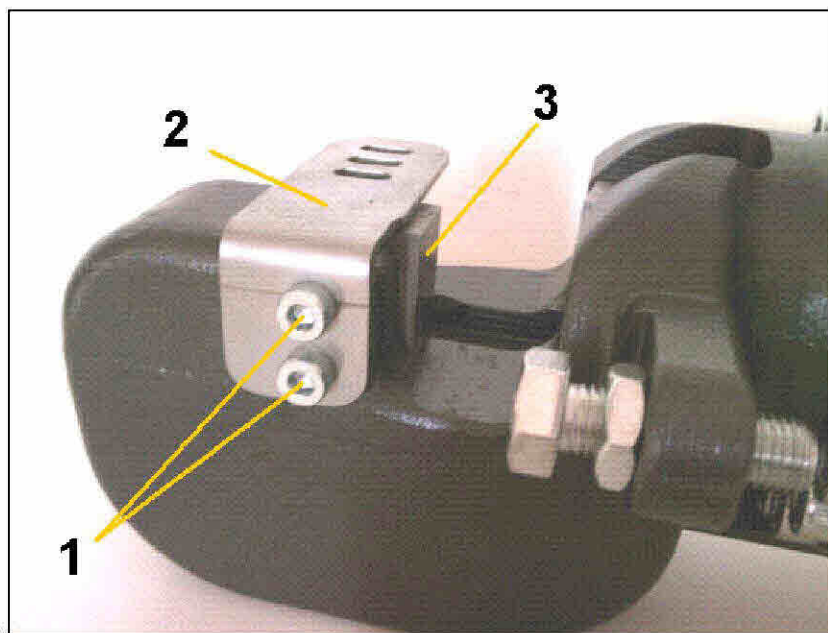


Fig. 5A

MOBILE TOOL:

1. Remove the lock screws (ref. 1 fig. 6A);
2. Replace the mobile tool (ref. 2 in fig. 6A);
3. Secure the mobile tool by fully tightening the lock screws;

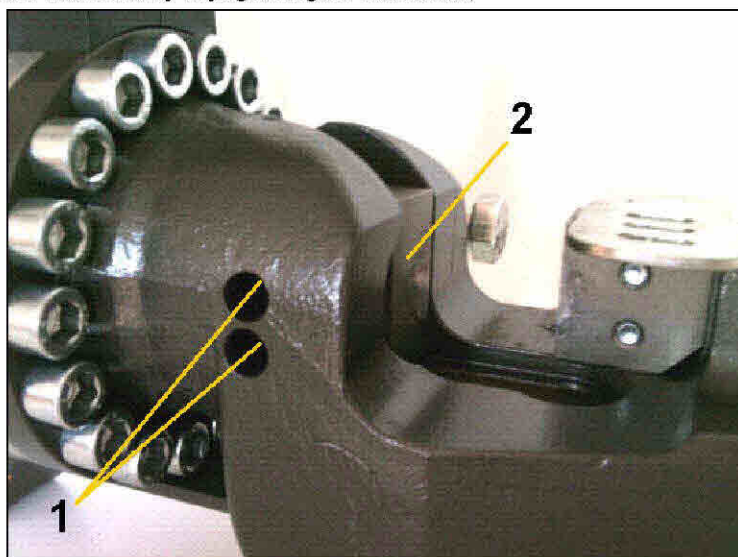


Fig. 6A

3.04 HYDRAULIC COMPONENTS

3.04.01 MANUAL RETURN VALVE DOES NOT CLOSE

If the piston is unable to perform another stroke make sure the manual return valve is closed.

3.04.02 MAX PRESSURE VALVE INCORRECTLY ADJUSTED

In case of a pressure drop for a reason that cannot be directly identified, have a maintenance man or the maker check the maximum pressure valve is clean and calibrated.

3.04.03 MAIN CHECKS ON THE MOTOR

- Keep the motor surfaces clean, especially the fins on the head
- Keep the motor cooling slits clean and unobstructed
- Check the brushes for wear: replace them with authentic spare parts when their length is less than 5mm.

3.04.04 CLEANING THE PISTON



KEEP THE PISTON BODY CLEAN IN ORDER TO ENSURE THE PISTON FULLY RETURNS AT END OF ITS STROKE AS OTHERWISE A NEW STROKE WOULD NOT BE POSSIBLE

In case of operating faults caused by dirt building up on the piston head, proceed as follows (fig. 13):

- Place the machine horizontally on a stable work surface
- return the piston B to its home position using a lever
- clean the piston head A

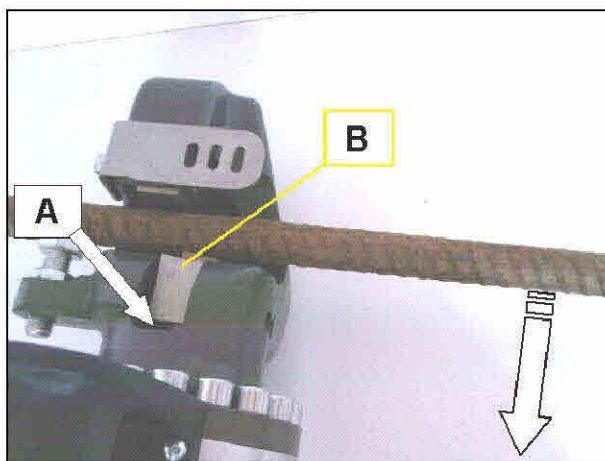


Fig. 13

4 POTENTIAL PROBLEMS AND MEASURES TO BE ADOPTED

4.01 GENERAL

Faults can be divided into three sections:

1. faults on the motor
2. faults on the head
3. faults not closely connected with the machine



ALL OPERATIONS MUST BE PERFORMED BY QUALIFIED PEOPLE IN OBSERVANCE OF SAFETY REGULATIONS.



WORK ON THE MACHINE DURING THE WARRANTY PERIOD MUST BE PERFORMED AT THE MAKER'S FACILITY.



Remedies marked with the letter R require the assistance of the Authorised dealer. The remedies marked by the letter M require the intervention of the Manufacturer. Remedies marked with the letter O can be performed by the Operator.

4.02 TROUBLESHOOTING THE MOTOR

| FAULT | POSSIBLE REASON | POSSIBLE REMEDY | PERFORMED BY |
|-------------------------------|--------------------------------------|---|--------------|
| MOTOR DOES NOT START | Broken power cable | Replace cable with one having the same specifications | M |
| | Faulty plug | Replace | M |
| | Stator windings | Replace | R |
| | Rotor windings | Replace | R |
| | Switch | Replace | R |
| | No electric power | Check the line and the cable protections | M |
| ELECTRIC MOTOR OVERHEATED | Worn brushes | Replace | R |
| | Worn manifold | Replace or overhaul | R |
| | Insufficient power supply | Check the line, the protections of the electric panel and the tightness of the connection terminals | M |
| | Partial fault of the stator windings | Replace | R |
| | Partial fault of the rotor windings | Replace | R |
| | Windings dirty | Clean | M |
| | Ventilation slits obstructed | Clean | O |
| | Fan broken | Replace | R |
| | Motor supports worn | Replace | R |
| Mechanical faults on the head | Overhaul | R | |

| FAULT | POSSIBLE REASON | POSSIBLE REMEDY | PERFORMED BY |
|--|--------------------------------------|-----------------|--------------|
| ELECTROMAGNETIC DISTURBANCES IN LINE | Fault in anti- disturbance filter | Replace | R |
| | Manifold worn | Replace | R |
| | Brushes worn | Replace | R |

4.03 TROUBLESHOOTING THE HYDRAULIC COMPONENTS

| FAULT | POSSIBLE REASON | POSSIBLE REMEDY | PERFORMED BY |
|--|--|---|--------------|
| OUTWARD STROKE DOES NOT BEGIN | Return stroke incomplete | Push back the piston | O |
| | Return spring broken (if present) | Replace | O |
| | Max. pressure valve dirty | Consult the Maker | / |
| | Manual return valve dirty | Clean | O |
| | Manual return valve faulty | Repair | M |
| | Oil tank empty | Fill | O |
| | Valve remains open due to built-up dirt | Clean | O |
| MOTOR DOES NOT STOP | Earth cable interrupted | Repair | M |
| | Earth cable rusted | Clean | O |
| OUTWARD STROKE INCOMPLETE | No oil | Top up | O |
| OUTWARD STROKE DISCONTINUOUS | Air bubbles in the hydraulic circuit | Vent | O |
| | Max. pressure valve open due to built-up dirt | Consult the Maker | / |
| | Pump faulty or dirty | Replace | M |
| | Piston gasket faulty | Replace | M |
| | Pump O-ring | Replace | M |
| RETURN STROKE INCOMPLETE | Dirt between piston rod and tool | Move the piston to its end- of-stroke position and clean | O |
| | Return spring broken | Replace | O |
| NO FORCE | Oil hydraulic pump faulty | Replace | M |
| | Dirt on oil hydraulic pump valve | Replace | M |
| | Max. pressure valve open | Replace | M |
| | Piston gasket worn | Replace | M |
| | Pump O-ring broken | Replace | M |
| PISTON DOES NOT AUTOMATICALLY REVERSE STROKE | Automatic reverse valve faulty | Replace | M |
| OIL LEAKS FROM TANK COVER | Membrane faulty | Replace | O |

5 STORAGE AND RESTARTING

5.01 STORAGE

In case of long periods of inactivity, proceed as follows:

5.01.01 ELECTRIC MOTOR

- Clean all the internal electrical parts (rotor, stator, cooling circuit) with compressed air



DO NOT USE CONDUCTIVE OR FLAMMABLE LIQUIDS TO CLEAN INTERNAL ELECTRICAL PARTS

- To clean the outside of the machine, if necessary, use a cloth dampened in soapy water and then dry thoroughly
- Check the following are in good condition:
 - insulation
 - power cable
 - switches
 - plug
 - brushes and manifold
 - clean the stator, rotor, cooling circuit and fan with compressed air

5.01.02 CYLINDER AND HYDRAULIC COMPONENTS

Before performing these operations, see the relative instructions in Chap. 3

- Check the hydraulic oil and top up or, if necessary, replace.
- Clean the magnetic cap and check the membrane.
- Check for any oil leaks.
- Tighten the screws.

Store the equipment in a clean and dry place accessible only to authorised personnel.

5.02 RESTARTING

Before performing these operations, see the relative instructions in Chap. 3

- Check the oil tank is full and top up if necessary
- Remove any traces of oil remaining after topping up or applied to protect metal parts from the grip and other parts that can be gripped.

ELECTRIC MOTOR

- Ensure that the power cable, the plug and the machine body have not been damaged.
- Start the machine a few times and make sure no operating faults occur.



ELIMINATE ANY FAULTS BEFORE STARTING WORK.

6 MACHINE DISPOSAL

When disposing of the machine, the various materials must be separated.

The tool comprises the following groups of materials:

- ferrous materials
- copper
- plastic

Observe current legislation when sorting, storing, recycling or disposing of these materials.

Only for EU countries:



This electric tool features the following recycling symbol. Consistently with Directive 2002/96/EC on waste electrical and electronic equipment (WEEE), at the end of its useful lifetime, this product must be disposed of separately in suitable collection areas and not together with normal domestic waste. A benefit for the environment and an advantage for all.

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Via Callesello, 4
31030 Borso Del Grappa (TV)**Name and address of person authorised to draw up the technical brief:**Giacomo Rorato
Via Callesello, 4
31030 Borso Del Grappa (TV)**Generic name:**

Portable electric power tool (cordless)

Function:cutting metal rod \varnothing max 32 mm**Type:**

Electric shear

Model:**T32N****Commercial name:****Electric shear T32N****Serial number:**

Year of construction:

DECLARES THAT THE ABOVE-MENTIONED EQUIPMENT IS COMPLIANT WITH THE FOLLOWING DIRECTIVES:

Machinery Directive

2006/42/EC (Proc. App. VIII)

EMC Directive

2004/108/EC

Low Voltage Directive

2006/95/EC

RoHS Directive

2002/95/EC

WEEE Directive

2002/96/EC

Place: Borso Del Grappa TV

Date.....

Signature
PAOLO MAZZARO
(legal representative)

Product Certified by ISET S.r.l. Notified body n° 0865:

EDILGRAPPA Srl

MACHINES AND EQUIPMENT FOR THE BUILDING TRADE, INDUSTRY
AND RESCUE

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