2

MANUAL

EDILGRAPPA

ELECTRIC SHEAR
MU16 and MU16/S
USE AND MAINTENANCE INSTRUCTIONS

ELECTRIC SHEAR

AVAILABLE IN THE FOLLOWING VERSIONS:

- **SINGLE-PHASE ELECTRIC MOTOR 230 V 50 Hz**

FIXED HEADS AVAILABLE	NAME OF MACHINE	P/N
CUTTING HEAD	MU16	1.50.1838
CUTTING HEAD	MU16 Upper Grip	1.50.1841

INDEX

0 DESCRIPTION OF THE MACHINE 5
0.01 MACHINE COMPONENTS 5
0.02 SAFETY AND DANGER STICKERS - CE PLATE 6
0.03 LIST OF ACCESSORIES INCLUDED IN THE SUPPLY 7
1 TECHNICAL FEATURES 7
1.01 HYDRAULIC, MECHANICAL AND ELECTRICAL SPECIFICATIONS 7
2 DELIVERY, COMMISSIONING AND SET-UP 8
2.01 DELIVERY 8
2.02 ELECTRIC MOTOR 8
2.02.01 ELECTRICAL CONNECTIONS 8
2.02.02 COMMISSIONING 9
2.03 MANUAL RETURN LEVER 9
2.04 EQUIPMENT OPERATION 10
2.04.01 STARTING 10
2.04.02 CUTTING 10
2.05 FORESEEN USE AND RESIDUAL RISKS 10
2.05.01 SAFETY DEVICES 11
3 ROUTINE MAINTENANCE 12
3.01 CHANGING AND TOPPING UP THE OIL 12
3.02 CHECKING SCREWS 14
3.03 CHECKING BLADES 14
3.04 HYDRAULIC COMPONENTS 15
3.04.01 CLEANING THE PISTON 15
3.04.02 ADJUSTING THE STROKE OF THE UPPER BLADE 15
3.04.03 MANUAL RETURN VALVE DOES NOT CLOSE 16
3.04.04 MAX. PRESSURE VALVE INCORRECTLY ADJUSTED 16
3.05 ELECTRIC MOTOR 16
4 POTENTIAL PROBLEMS AND MEASURES TO BE ADOPTED 16
4.01 GENERAL 16
4.02 TROUBLESHOOTING THE MOTOR 17
4.03 TROUBLESHOOTING THE HYDRAULIC COMPONENTS 17
5 STORAGE AND RESTARTING 18
5.01 STORAGE 18
5.01.01 ELECTRIC MOTOR 18
5.01.02 CYLINDER AND HYDRAULIC COMPONENTS 19
5.02 RESTARTING 19
6 MACHINE DISPOSAL 19

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 BODY":	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.

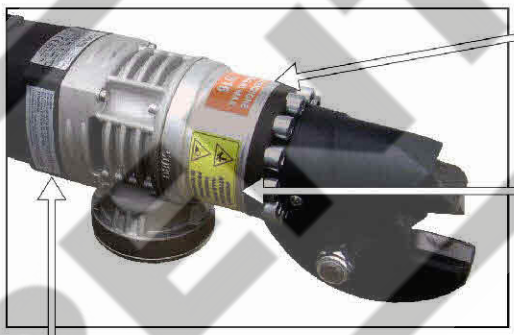
Fig. 1 shows the main parts of the machine fitted with a motor, in particular:

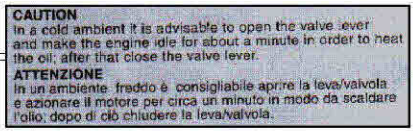
1. cylinder with hydraulic components
2. head with tool
3. release lever or double-acting lever
4. grip with on/off switch
5. electrical connecting cable complete with plug
6. electric motor
7. safety mask
8. start button
9. oil cap

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/mm2]	16 mm / 65 daN/mm^2
Maximum output force from rod [t]	14.8
Maximum operating pressure [bar]	560
Dimensions: Length X Width X Height [mm]	
MU16	520 x 125 x 147
MU16/S	420 x 127 x 228
Closing and opening time [s]	2/2
Weight [kg]	9.5
Guaranteed no-load LwA sound level (CEI EN 60745-1 and CEI EN 60745-2-8) [dB]	98
No-load operator Lpa (CEI EN 60745-1 and CEI EN 60745-2-8) [dB]	87
Vibrations when cutting diam. 16 mm rod (CEI EN 60745-1 and EN ISO 5349)	
MU16	9.78 m/s^2
MU16/S	9.48 m/s^2
Input voltage [V]	230
Frequency [Hz]	50
Electrical power [W]	1100
Input current [A]	5.3
Insulation class	II
RPM	10000

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, immediately inform the shipping company and write the "Accepted subject to checking" clause on the Delivery note.

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.

Also 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 USING THE PLUG SOCKETS, TURN THE MAIN SWITCH TO ITS OPEN POSITION "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 LEVER

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 lever to position 2 to return the piston to its home position.

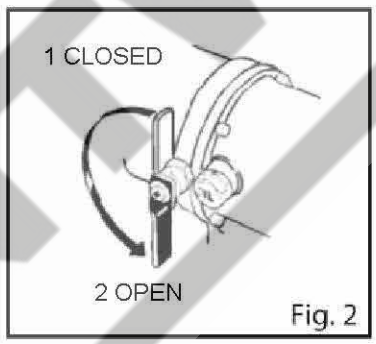


Fig. 2

IMPORTANT: If the machine does not work make sure the manual return lever 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. 3).

IMPORTANT: Position the blade 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.

After correctly positioning the blade on the workpiece, press the start button and hold it down until cutting has been completed.

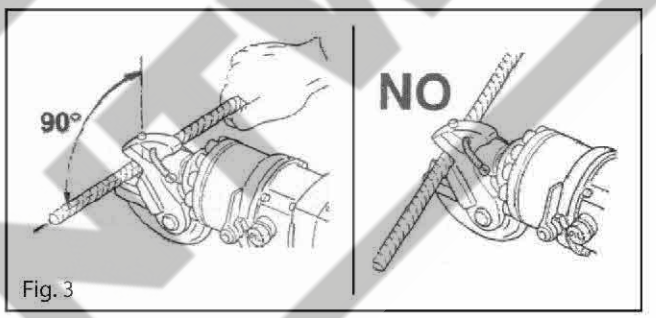


Fig. 3

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 16 mm and the unit tensile strength of the material (steel) must not be greater than 640 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 Φ and max. unit tensile stress	16 mm – STEEL R=640 N/mm²

- ***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 preventing contact with the upper part of the tool as it returns after cutting. It is a plastic guard secured to the machine with 2 screws (part. 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	• CHECK THE INTEGRITY OF THE MACHINE	Visual	Operator
/	• CLEAN THE PISTON	Para 3.04.01	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
EVERY 8 HOURS	• CHECK THE BLADES FOR WEAR	Para 3.03	Operator
/	• REPLACING BLADES		Maintenance man

If you have any doubts about ordering spare parts or performing complex maintenance work, contact your authorised dealer.

3.01 CHANGING AND TOPPING UP THE OIL

When changing or topping up the oil, make sure no impurities contaminate the oil or enter the tank. Impurities in the oil can irreparably damage the hydraulic components.

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 facing upwards. Place a basin under the machine to catch any oil leaks;
2. Unscrew the magnetic cap (see part. 9 para 0.01) 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. Slowly pour in the correct quantity of oil (0.6 l) using suitable equipment (e.g. a funnel as shown in fig. 4). Only use new or clean recommended oil (as indicated on the next page);
5. Fill up to the upper rim of the hole;
6. Put back the oil cap and tighten slightly;
7. Perform some piston strokes to vent the large air bubbles;
8. Move the piston to its maximum extension and rapidly start and stop the motor several times (before the piston automatically retracts);
9. Complete filling;
10. Put the oil cap on and tighten.

Fig. 4

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. Unscrew the magnetic cap (see part. 9 para 0.01) and remove any residues;
3. Check the amount of missing oil;
4. Slowly top up to the upper rim of the hole with recommended new and clean oil using suitable equipment (e.g.: a funnel as indicated in fig. 4);
5. Put the oil cap on and tighten.

Maximum quantity:	0.6 l.
Type of hydraulic oil:	ESSO NUTO H46 or homologated 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 LOCK 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 and manually remove the blades after loosening the two lock screws (A) indicated in fig. 5.

If the blades cannot be removed manually, proceed as follows:

1. Loosen the two lock screws (B) in fig. 6 and remove the protective sleeve;
2. Loosen the lateral screws (1) in fig. 7 securing the spring of the upper head;
3. Remove the head drive cam (2) in fig. 8;
4. Remove the nut and washer (6) and pull out the pin (3) in fig. 9;
5. Remove the upper part of the head (4) in fig. 9;
6. Remove the blade with the help of a pin, as shown in fig. 10;
7. If the blades are still in good condition, turn them 120° or mount new blades. Before mounting the blades clean them and the guides;
8. Assembly by inserting the blades as indicated in fig. 12: the short blade in the seat of the upper mobile head with the short screw, the long blade in the seat of the lower fixed head with the long screw;
   Attention: position the notch (7) as indicated in fig. 12, mount the blade with the help of a copper or aluminum hammer.
9. When assembling, make sure the head drive cam (2) is inserted in the right position (see fig. 11);
10. Secure the nut with washer (6) so that the upper head can move freely up and down and vice-versa;
11. Secure the two screws on the piston (1) with a screw safety system (thread locker);
12. Put back the guard.

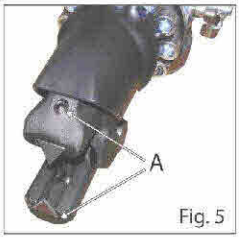


Fig. 5

Fig. 6

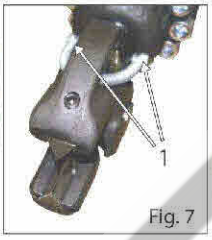


Fig. 7

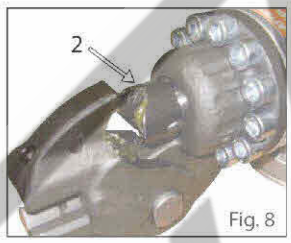


Fig. 8

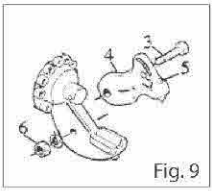


Fig. 9

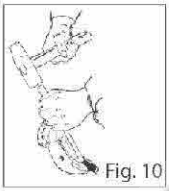


Fig. 10

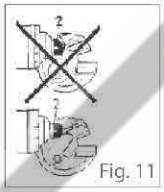


Fig. 11

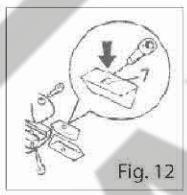


Fig. 12

3.04 HYDRAULIC COMPONENTS

3.04.01 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
- remove the guard by loosening the two screws to the sides
- return the piston B to its home position using a lever
- clean the piston head A

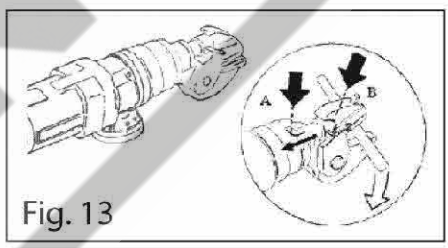


Fig. 13

3.04.02 ADJUSTING THE STROKE OF THE UPPER BLADE

(refer to the figures in Para 3.03)
To increase the stroke of the upper blade, move the adjustment screw located under the head drive cam (pos.2 fig.8) as indicated below:

- move the piston fully back to its home position
- place the machine horizontally on a stable work surface
- loosen the two lock screws (B) in fig. 6 and remove the protective sleeve
- remove the two lateral screws securing the spring of the upper head to access the cam (fig.7)

- move the head forwards and remove the cam (fig.8)
- using a screwdriver, turn the adjustment screw anti-clockwise to increase the stroke, *making sure that the piston does not turn on itself*
- *make very small adjustments to prevent the blades from overlapping and jamming*
- mount the cam and secure the screws with the spring *taking care not to overtighten them*
- put back the guard.

When assembling, make sure the cam is mounted in the correct position as shown in figure 11.

3.04.03 MANUAL RETURN VALVE DOES NOT CLOSE

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

3.04.04 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.

3.05 ELECTRIC 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.

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
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	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

FAULT	POSSIBLE REASON	POSSIBLE REMEDY	PERFORMED BY
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 ROM 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 tool in a dry place that can only be accessed by authorised staff.

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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DECLARATION OF CONFORMITY

CE

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Machines and equipment for the building trade, industry and rescue
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Name and address of person authorised to draw up the technical brief:
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Via Callesello, 4
31030 Borso Del Grappa (TV)

Generic name: Portable electric power tool (cordless)
Function: cutting metal rod ∅ max 16 mm
Type: Electric shear
Model: **MU 16**
Commercial name: **Electric shear MU16**

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	2011/65/EC
WEEE Directive	2002/96/EC

Place: Borso Del Grappa TV
Date.....

Signature
PAOLO MAZZARO
(legal representative)

TESTED BY ISET NOTIFIED BODY N°0865

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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