

TARGA 2000

Operating manual

D412790XA

vers. **3.0**



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GUIDE TO THE MANUAL

This manual has been produced to serve as a guide for users of the TARGA 2000 key-cutting machine. It is essential to read it carefully and consult it regularly if you wish to operate your machine safely and efficiently.

Consultation

The contents of the manual are divided into sections relating to:

- Transport and handling 1
- Machine description and safety 2-3-4-5
- Use 5-6
- Maintenance 7

Technical terms

Common technical terms are used in this manual. To assist those with little experience of cutting keys, below is an illustration of the terms used for the different "keys".

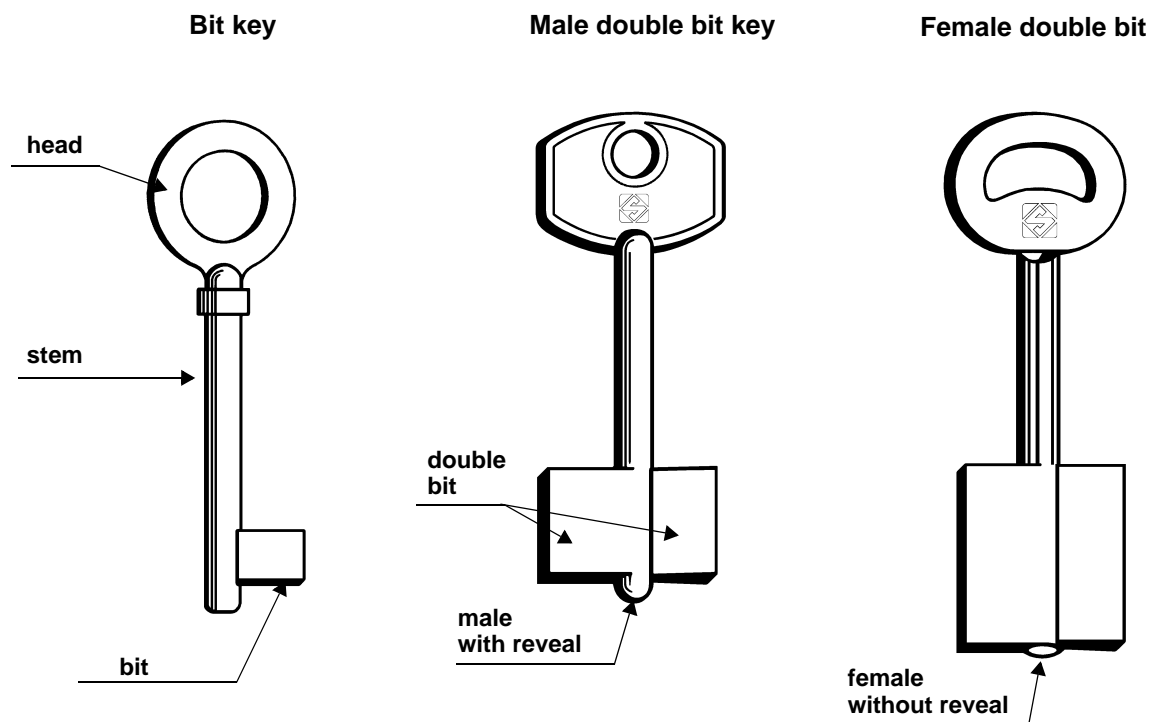


Fig. 1

GENERAL

TARGA 2000 has been designed according to the specifications of the Machine Directives. From the design stage risks for the operator have been eliminated in all areas: transport, regulation, cutting and maintenance.

The use of protective goggles is compulsory during cutting operations, as indicated on the machine itself and in this manual.

The material used in the manufacture of this machine and the components employed during use of the machine are not dangerous and their use complies with standards.

Use

The TARGA 2000 must be installed and used in the way laid down by the manufacturer. If the machine is used differently or for purposes different from those described in this manual, the customer will forego any rights he may have over SILCA S.p.A. Furthermore, unforeseen danger to the operator or any third parties may arise from incorrect use of the machine.

Negligence in the use of the machine or failure on the part of the operator to observe the instructions given in this manual are not covered by the guarantee and the manufacturer declines all responsibility in such cases.

It is therefore indispensable to read the operating manual carefully in order to make the best use of the TARGA 2000 key-cutting machine and benefit from its potential.

Further risks

There are no further risks arising from the use of the TARGA 2000.

Protection and safety precautions for the operator

The TARGA 2000 is built entirely to standards. The operations for which it has been designed are easily carried out at no risk to the operator.

The adoption of general safety precautions (use of goggles) and observation of the instructions provided by the manufacturer in this manual eliminate all human error, unless deliberate.

The TARGA 2000 is designed with features which make it completely safe in all its parts.

• Power supply

The key-cutting machine is supplied with electricity by means of a safety device (supplied with 230V machines, on request for other voltages). The mains socket must be earthed.

• Start-up

The machine is started up by:

- pushing the button on the safety device (supplied with 230V machines);
- switching on the motor master switch on the left-hand side.

• Maintenance

The operations to regulate, service, repair and clean the machine have been devised in the simplest and safest way possible. There is no danger of removable parts being replaced wrongly or unsafely.

• Machine identification

The TARGA 2000 key-cutting machine is provided with an identification label which shows the serial number (fig. 2).

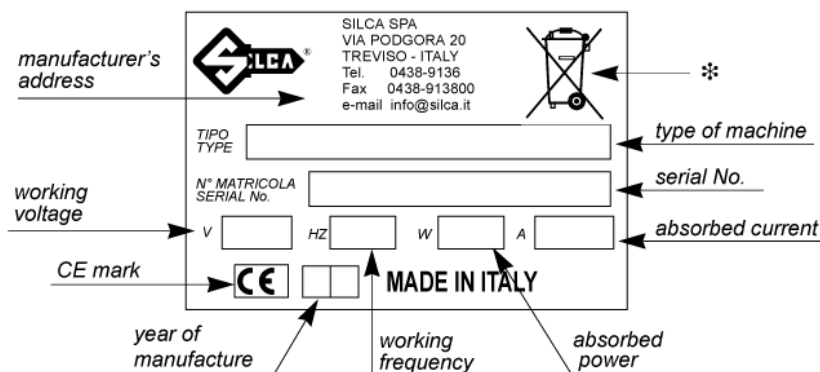


Fig. 2

(*) see chap. 8 "WASTE DISPOSAL", page 23.

1 TRANSPORT

The TARGA 2000 key-cutting machine is easily transported and is not dangerous to handle. The packed machine can be carried by one person.

1.1 Packing

The TARGA 2000 key-cutting machine is consigned in a strong cardboard box, the dimensions of which are shown in fig. 3, designed to protect the machine even when it is stored for long periods. Inside the box, the machine is completely enclosed in two expanded polystyrene semi-shells (fig. 3).

The box and shells ensure safe transport for the machine and the detached separate parts.

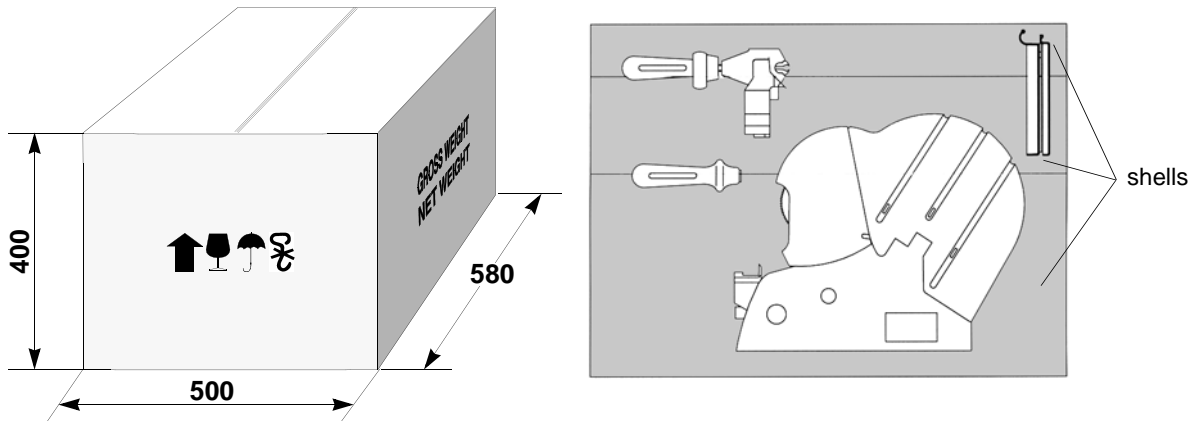


Fig. 3

1.2 Transport

It is advisable to use the packing every time the machine is transported, as this will avoid knocks causing damage to the machine, people or things.

1.3 Unpacking

To remove the machine from the packing box:

- 1) cut the straps with scissors and remove,
- 2) prise off the staples,
- 3) it is advisable to open the box without damaging it so that it may be used again (removals, dispatch to manufacturers for repairs or servicing),
- 4) check the contents of the box, which should comprise:
 - 1 clamp carriage;
 - 1 TARGA 2000 key-cutting machine packed in its protective shell;
 - 1 chippings tray;
 - 1 tool tray;
 - 1 carriage lever handle;
 - 1 power cable;
 - 1 power safety device (supplied with 230V machines);
 - 1 set of documents, including: operating manual, spare parts list and guarantee;
- 5) remove the machine from the protective shell.

1.4 Machine handling

When the key-cutting machine has been unpacked, place it directly on its workbench.

This operation can be carried out by one person, firmly holding the base, and no other part, to lift and carry the machine.

2 WORKING PARTS

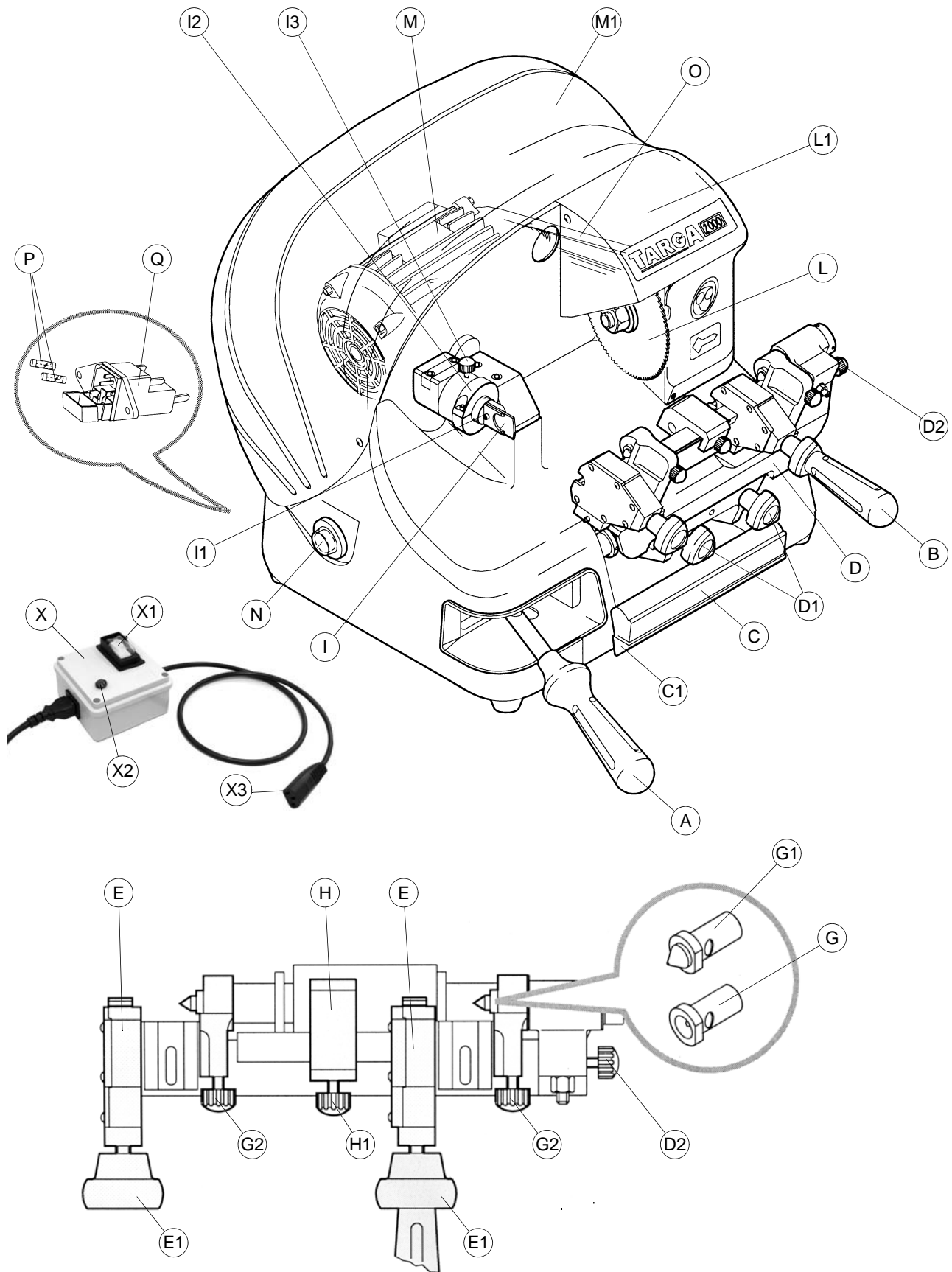


Fig. 4

TARGA 2000 key-cutting machine:

- A - carriage lever
- B - carriage handle
- C - chippings tray
- C1- tool tray
- D - clamp carriage
- D1- carriage release knobs
- D2- carriage horizontal locking knob
- E - double bit keys clamps
- E1- bit and double bit clamp knobs
- G - centring devices for male keys
- G1- centring devices for female keys
- G2- centring device knobs
- H - head stop
- H1- head stop locking knob
- I - tracer point
- I1 - tracer point locking screw
- I2 - tracer point regulation ring
- I3 - tracer point spring locking knob
- L - cutting tool
- L1- cutting tool cover
- M - motor
- M1- motor cover
- N - motor start switch
- O - belt
- P - fuses
- Q - power inlet

SAFETY DEVICE:

- X - safety device (standard with 230V key-cutting machines, on request for other voltages)
- X1- safety main switch
- X2- warning light
- X3- plug

3 MACHINE DESCRIPTION

TARGA 2000 is a professional machine for the cutting of male and female bit and double bit keys. The main parts of the machine are described below:

- **SAFETY DEVICE**

Device connected to a power point with a differential switch; power the key-cutting machine by pressing the switch (X1).

The warning light (X2) illuminates to indicate voltage in the plug (X3).

ATTENTION: switch (X1) is electromagnetic, in the event of a power failure it goes out automatically. When electricity is restored it must be reset manually to power the machine again by means of the plug (X3).

- **MOTOR MASTER SWITCH**

The motor button (N) is placed on the left side of the TARGA 2000 key-cutting machine.

ATTENTION: the switch is constantly illuminated to indicate that the machine is live.

- **MOTOR AND TRANSMISSION UNIT**

Transmission to the motor is driven by a belt which activates the cutting tool. The transmission unit is protected by two protective covers:

- cutting tool cover (L1),
- motor cover (M1).

- **CLAMP CARRIAGE**

The clamp carriage (D) comprises two clamps (E) for the cutting of bit and double bit keys. The carriage moves horizontally by means of lever (A). The carriage handle (B) is used for rounding off the key cuts. The key-cutting machine has a sloping table to channel chippings into the special tray (C) situated under the carriage and easily removed for cleaning.

- **CUTTING UNIT**

The cutting unit contains the working parts of the TARGA 2000 key-cutting machine, which work in unison to read and duplicate original keys, and carry out the necessary finishing operations.

The working parts are listed below:

- **Cutting tool:** the cutting tool (L) is the part of the TARGA 2000 machine which cuts male and female bit and double bit keys. The tool is in HSS super rapid steel and is protected by a special cover (L1) to ensure safe operation.
- **Tracer point:** the tracer point (I) reads the profiles of male and female bit and double bit keys and is housed on the left-hand side of the machine base. Cutting depth and pitch are easily regulated. Its spring facilitates and speeds up cutting as it guides the operator's movements accurately and precisely.
- **Clamps for male and female bit and double bit keys:** the clamps (E) have two jaws which ensure perfect grip on the stems of male and female bit and double bit keys.
- **Bit and double bit key clamp knobs:** the two jaws are locked in place by two anatomically shaped knobs (E1) which ensure a perfect grip on the key.
- **Male and female centring devices:** the jaws also hold the male (G) and female (G1) centring devices for aligning and centring the keys.
- **Centring device knobs:** two anatomically shaped knobs (G2) lock and release the centring device to avoid vibrations during the key cutting operations.
- **Head stop:** situated on the carriage in the same position as the right-hand jaw, the head stop (H) helps to secure the keys during the cutting operation. It can be regulated according to the length of the key by releasing the knob (H1).

3.1 Technical data

POWER:

- 230V - 50Hz 220W 1,6A
- 110V - 60Hz 250W 3,5A

CUTTING TOOL: High speed steel (HSS)

MOTOR: one speed single phase 230V-50Hz-1,5A / 110V-60Hz-3,5A

- 230V: 1350 rpm - 0,18 Kw
- 110V: 1620 rpm - 0,18 Kw

MOVEMENT: by means of a lever and a rectified carriage shaft

CLAMP: with self-centring jaws.

SAFETY DEVICE: supplied with 230V machines, on request for other voltages

CARRIAGE RUN (maximum length of cuts): 55 mm

DIMENSIONS:

- width: 345 mm
- depth: 550 mm
- height: 330 mm

CUTTING NOISE: $L_p (A) = 95,8 \text{ dB (A)}$

NOISE POTENTIAL: $L_w (A) = 108,5 \text{ dB (A)}$

MASS: kg. 16,5

3.2 Electrical circuit

The TARGA 2000 key-cutting machine is provided with a motor which performs at:

- 1350 rpm with consumption of approx. 0,18 kw and absorption of 1,5A for the 230V version;
- 1620 rpm with consumption of approx. 0,18 kw and absorption of 3,5A for the 110V version.

The main parts of the electrical circuit are listed below:

- 1) Safety device socket
- 2) Safety main switch
- 3) Warning light
- 4) Wiring clip
- 5) Machine inlet
- 6) Rapid 4A fuses on 230V version, rapid 8A fuses on 100V version
- 7) Illuminated switch
- 8) Motor: 230V a.c. 50Hz / 110V a.c. 60Hz
- 9) 8 μ F condenser on 230V version (25 μ F condenser on 110V version)
- 10) Lamp socket

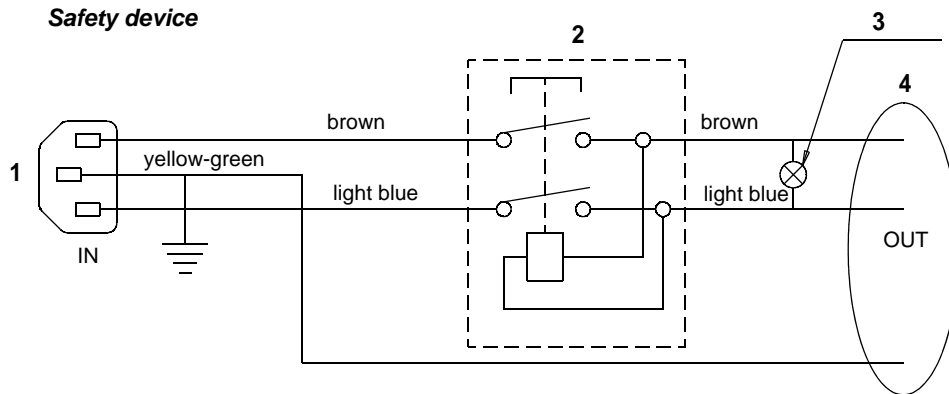


Fig. 5

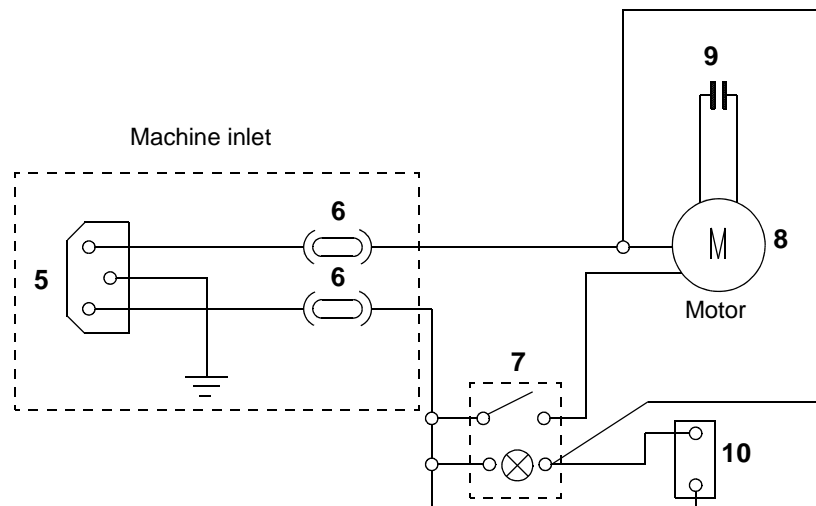


Fig. 6

4 ACCESSORIES PROVIDED

To ensure efficient use of the TARGA 2000 key-cutting machine we recommend keeping certain spare parts in stock.

It is advisable to ensure that the tool box always has a set of tools, a spare cutting tool, tracer point and belt and components normally subject to wear and tear.

TARGA 2000 comes with a full set of all the accessories needed for its operation and maintenance.

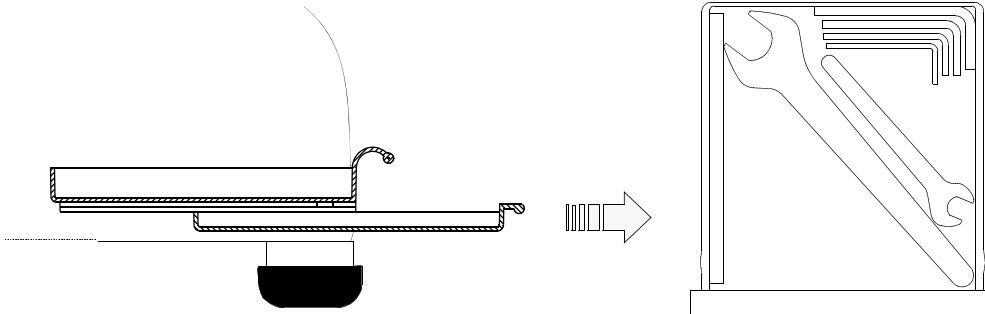
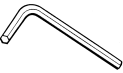




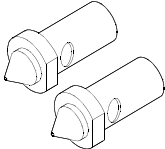

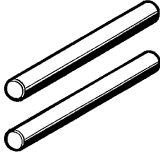




Fig. 7

 <p>code D300222ZZ 2.5 mm ALLEN WRENCH</p>	 <p>code D300783ZZ ONE-ENDED SPANNER 19 mm</p>
 <p>code D300223ZZ 3 mm ALLEN WRENCH</p>	 <p>code D400754BA CUTTING TOOL RELEASE ROD</p>
 <p>code D300224ZZ 4 mm ALLEN WRENCH</p>	 <p>code D512533ZM CENTRING DEVICE FOR FEMALE KEYS 2 pcs.</p>
 <p>code D300225ZZ 5 mm ALLEN WRENCH</p>	 <p>code D202552ZZ SETTING PINS 2 pcs.</p>
 <p>code D300308ZZ ONE-ENDED SPANNER 10 mm</p>	 <p>FUSES 5X20 (2pCS.) 4 Amp rapid for 230V code D301185ZZ 8 Amp rapid for 110V code D310668ZZ</p>

5 MACHINE INSTALLATION AND PREPARATION

TARGA 2000 key-cutting machine can be installed by the purchaser and does not require any special skills. However, some checks and preparation for use are advisable.

5.1 Separate parts

The detachable parts of the machine are packed separately and must be fitted to the TARGA 2000 by the operator, as follows:

Clamp carriage

Place the clamp carriage into its seating and tighten the carriage release knobs (D1) (fig. 8).

Carriage lever handle

Screw the handle (A) onto the carriage lever (fig. 8).

Chippings tray

Insert the chippings tray (C) into the special seat (fig. 8).

Power cable

Connect the safety device (X) to the key-cutting machine with the power cable then connect the free end of the cable to the power mains (fig. 9).

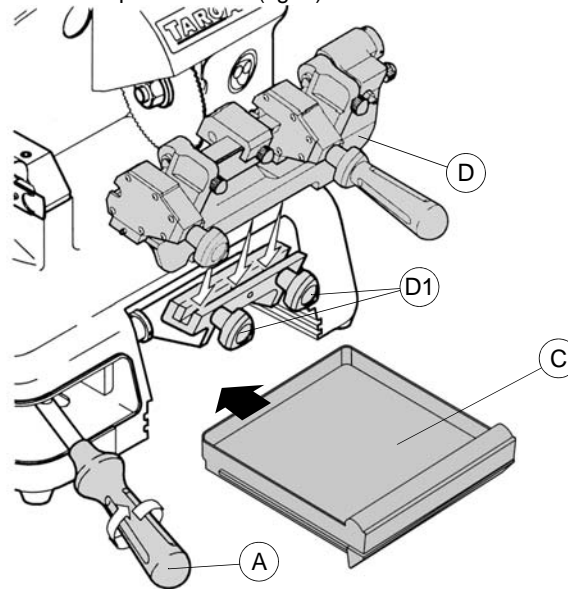


Fig. 8

5.2 Connection to the mains

It is extremely important for the operator's safety to ensure that the key-cutting machine is connected to the power mains with the right voltage and by means of a properly earthed differential switch.

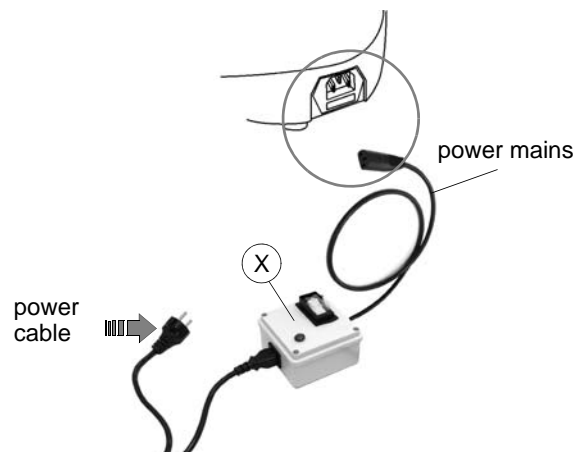


Fig. 9

5.3 Checking for damage

The TARGA 2000 is solid and compact and will not normally damage if transport, unpacking and installation have all been carried out according to the instructions in this manual. However, it is always advisable to check that the machine has not suffered any damage.

5.4 Environmental conditions

To ensure that the best use is made of the TARGA 2000 key-cutting machine, certain parameters must be borne in mind:

- damp, badly ventilated sites should be avoided.
- the ideal conditions for the machine are:
 - temperature: between 0 and 40°C
 - relative humidity: approx. 60%

5.5 Positioning

Place the machine on a horizontal surface, solid enough to take the weight (16,5 kg).

To facilitate operation and maintenance, install the machine with a clearance of at least 200 mm on all sides (fig. 10).

Check that the weight of the machine is evenly distributed over the four feet; horizontal positioning prevents vibrations during operation.

ATTENTION: ensure that the machine voltage is the same as that of the mains, which must be properly earthed and provided with a differential switch.

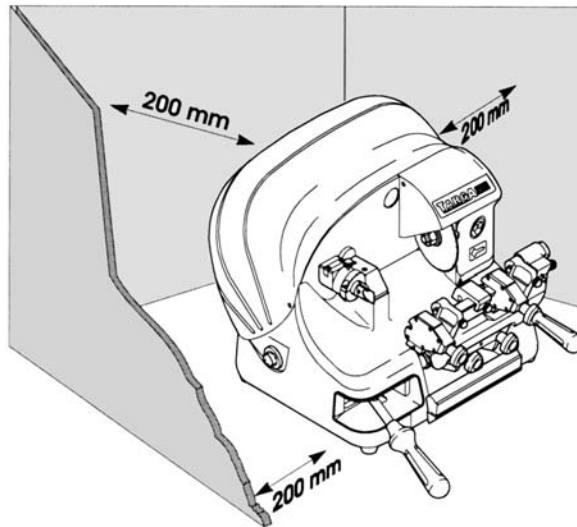


Fig. 10

5.6 Description of work station

The machine needs only one operator, who has the following controls at his/her disposal (fig. 11):

- Safety device (X);
- Motor start button (N), placed on the left side of the key-cutting machine and incorporating a lamp to indicate that the machine is live.
- Carriage movement lever (A).
- Carriage lever handle (B).

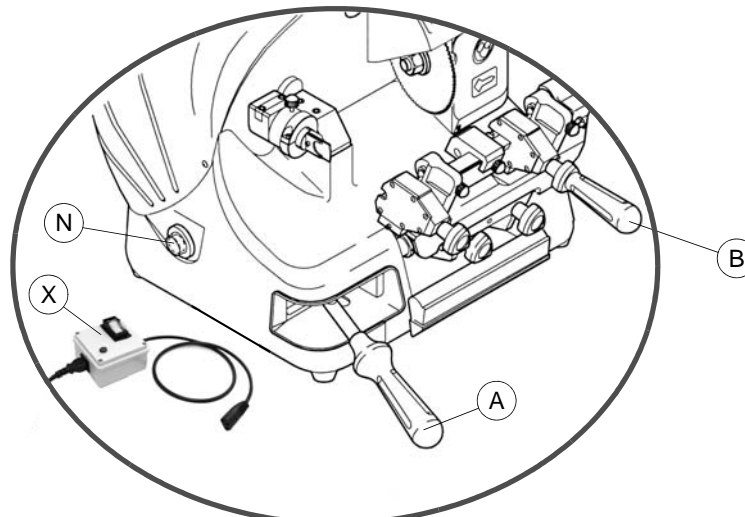


Fig. 11

6 REGULATION AND USE OF THE MACHINE

The cutting tool on the TARGA 2000 is used to cut the key blanks and must be periodically checked and replaced. Periodically check the key-cutting machine settings, to ensure perfect machine efficiency.

6.1 Calibration for bit/double bit keys

The TARGA 2000 key-cutting machine requires two types of calibration: **axis** and **depth**.

Axis calibration for bit/double bit keys

Axis calibration is regulation of the cutting spaces (fig. 12).

The axis setting for the TARGA 2000 is fixed and is established on assembly in our workshops.

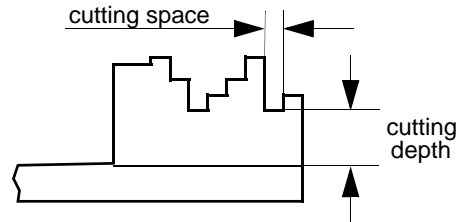


Fig. 12

Depth calibration:

Depth calibration is regulation of the depths of the cuts (fig. 12).

Proceed as follows:

- 1) Disconnect the machine from the mains.
- 2) Place the adjusting pins (S) (provided) on the clamps (fig. 13).
- 3) Lock the clamps in the horizontal position by means of the knob (D2).
- 4) Raise the carriage and take the setting pins into contact with the tracer point and cutting tool (fig. 13).
- 5) Turn the cutting tool anticlockwise manually and check that it skims the adjusting pins in several places.
- 6) If necessary, **regulate** the cutting depth by means of the tracer point, as described below:
 - a) Turn the nut (I2) clockwise to advance the tracer point.
 - b) Turn the nut (I2) anticlockwise to move the tracer point back.
 - c) Repeat these operations until the cutting tool skims the setting pins in several points.

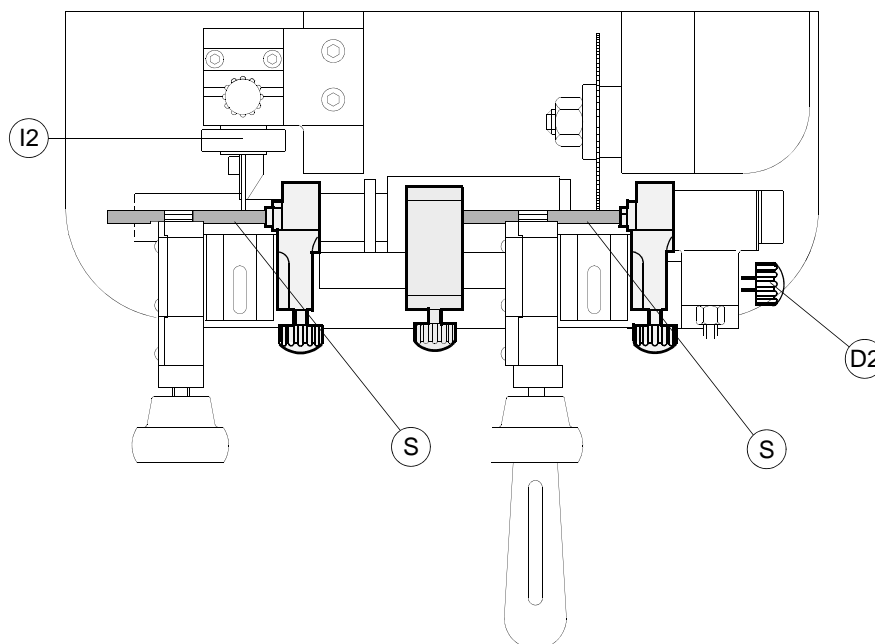


Fig. 13

6.2 Cutting operations

ATTENTION: to work in complete safety, pay special attention to the following recommendations:

- Always work with dry hands.
- Check that the machine is properly earthed.
- Use the protective goggles, even if the cutting tool is fitted with a protective shield.
- Start the motor (switch N) only when all the operations with the carriage have been carried out (securing keys, etc.).
- Keep hands away from the cutting tool when in motion.

6.3 Use of the tracer point spring

The spring movement facilitates the identification of the cutting space before the cut is made.

- **To activate the tracer point spring:** release the tracer point spring locking knob (I3).
- **To lock the tracer point spring:** push the tracer point all the way up and secure with the special knob (I3) (fig. 14). Use of the tracer point spring is recommended for the cutting of male and female bit/double bit keys.

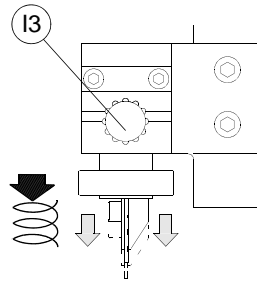


Fig. 14

6.4 Cutting male bit and double bit keys

- 1) Align the mobile clamp (cutting tool side) by means of the carriage locking knob (D2) (fig. 16).
- 2) Fit the special centring devices (G) into their seat, pushing all the way in.
- 3) Place the original key into the clamp (E) on the tracer point side, pushing up against the centring device.
- 4) Push the key into the centring device so that the bit butts against the stop (fig. 16).
- 5) Secure the key in this position by tightening the knob (E1).
- 6) Place the key to be cut in position by repeating steps 3, 4, 5, in that order.
- 7) Take the head stop (H) up against the key to be cut and lock the knob (H1).
- 8) Lock the centring device knobs (G2) to avoid vibrations.
- 9) Release the carriage by means of the knob (D2).
- 10) Turn on the key-cutting machine by means of the motor ON switch (N).
- 11) Take the carriage up to the tracer point and cutting tool by raising the carriage lever (A).
- 12) Grip the lever (B), turn upwards to avoid the cutting tool coming into violent contact with the bit and cut the tooth.
- 13) Rest the tracer point properly on the bottom of the cut and round off the cut by moving the carriage up and down.
- 14) Repeat this operation for all the cuts on the bit.
- 15) It is advisable to rectify the side of the key opposite the stop (fig. 15)
- 16) For all double bit keys, turn the keys in order to cut the second side.

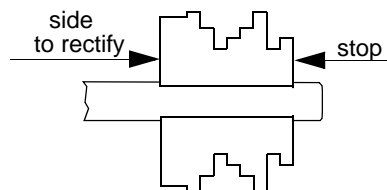


Fig. 15

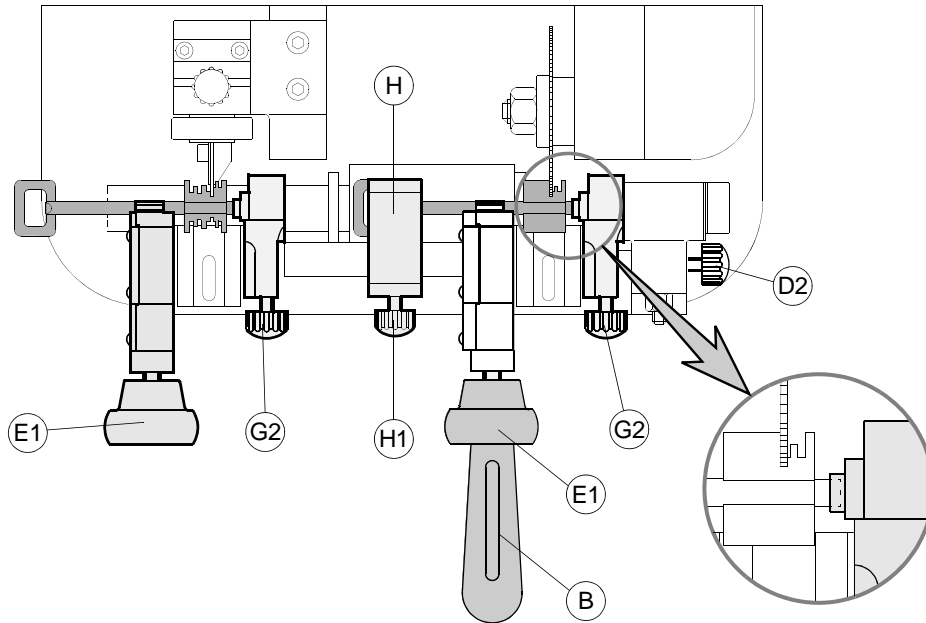


Fig. 16

6.5 Cutting female bit and double bit keys

- 1) Align the mobile clamp (cutting tool side) by means of the carriage locking knob (fig. 18).
- 2) Fit the special centring devices (G1) into their seat, pushing all the way in.
- 3) Loosen knob (E1).
- 4) Place the original key into the jaws, pushing up against the centring device (G1).
- 5) Push the key into the centring device so that the bit butts against the stop (fig. 18).
- 6) Secure the key in this position by tightening the knob (E1).
- 7) Place the key to be cut in position and repeat steps 3, 4, 5, 6, in that order.
- 8) Take the head stop (H) up against the key to be cut and lock the knob (H1).
- 9) Lock the centring device knobs (G2) to avoid vibrations.
- 10) Release the carriage by means of the knob (D2).
- 11) Turn on the key-cutting machine by means of the motor ON switch (N).
- 12) Take the carriage up to the tracer point and cutting tool by raising the carriage lever (A).
- 13) Grip the lever (B), turn upwards to avoid the cutting tool coming into violent contact with the bit and cut the tooth.
- 14) Rest the tracer point properly on the bottom of the cut and round it off by moving the carriage up and down.
- 15) Repeat this operation for all the cuts on the bit.
- 16) It is advisable to rectify the side of the key opposite the stop (fig. 17)
- 17) For double bit keys, use the same procedure to cut the second side.

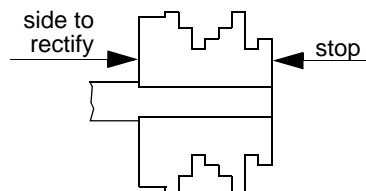


Fig. 17

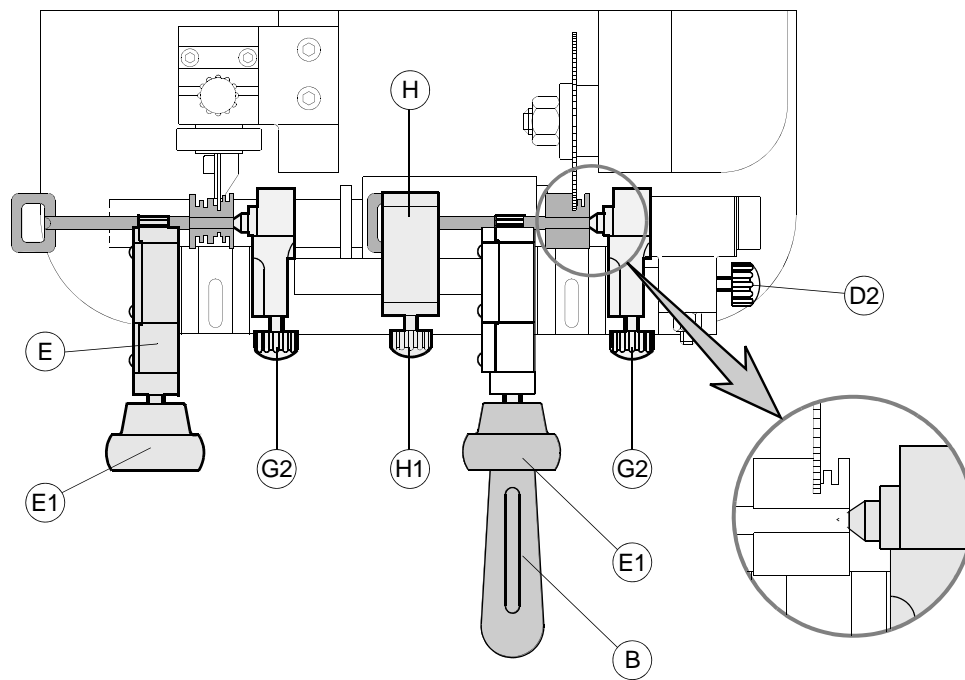


Fig. 18

7 MAINTENANCE

ATTENTION: for repairs or replacement of parts for maintenance, the 'CE' mark is guaranteed only if original spare parts provided by the manufacturer are used.

Although the TARGA 2000 key-cutting machine does not require special maintenance, it is advisable to check and, if necessary, replace the parts subject to wear (cutting tool, tracer point, belt). Replacement is simple and can be carried out by the operator.

Cleaning: it is advisable to use a soft brush to keep the carriage and clamps free of chippings from cutting operations.

ATTENTION: DO NOT USE COMPRESSED AIR!

ATTENTION: to keep the machine well maintained we recommend using protective oil, e.g. WD40 or similar, applied to the burnished mechanical parts. This prevents oxidation of the parts in question (clamps, guides, carriages, etc.). Do not contaminate the electronic parts with the oil.

Before starting any type of maintenance (checks or replacements), read the instructions below:

- never carry out maintenance or servicing with the machine switched on.
- always remove the mains plug.
- follow all the instructions in the manual to the letter.
- use original spare parts.
- always check that any screws or nuts removed when replacing a piece are properly tightened.

7.1 Cutting tool replacement

It is not necessary to remove the protective shield (L1) in order to replace the cutting tool.

ATTENTION: Unplug the machine from the mains.

- 1) Place the locking rod (provided) into the slot on the cutting tool shaft (fig. 19).
- 2) Use the spanner provided to loosen the cutting tool locking nut.

ATTENTION: the thread is left-handed.

- 3) Remove the worn cutting tool.
- 4) Carefully clean the new cutting tool and its seat.
- 5) Install the new cutting tool and tighten the nut.

ATTENTION: the tool rotates clockwise.

- 6) Remove the locking rod.
- 7) Check the depth setting as described in ch. 6, page 16.

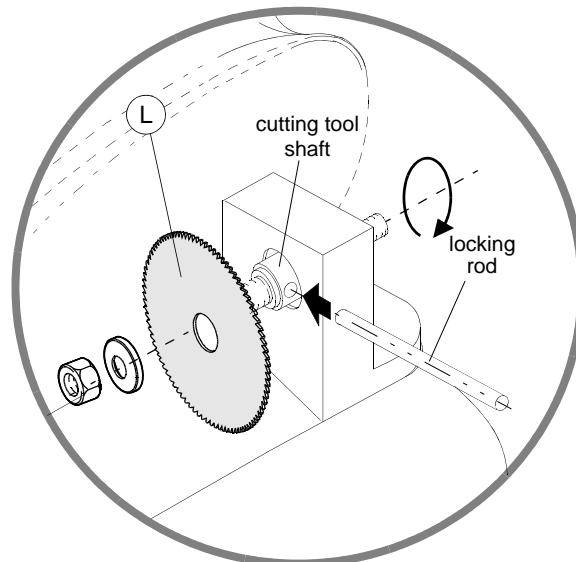


Fig. 19

7.2 Replacing the belts and adjusting tension

If the belt (O) has become worn or loose, tension must be re-set to ensure safety in the use of the cutting tool.

Adjusting tension:

ATTENTION: Unplug the machine from the mains.

- 1) Remove the protective cover on the motor (M1) by removing the four screws.
- 2) Loosen the four screws which fix the motor to the base (fig. 20).
- 3) Push the motor downwards until the belt tension is normal.
- 4) Tighten the four screws.

Replacing the belt:**ATTENTION: Unplug the machine from the mains.**

- 1) Remove the protective cover on the motor (M1) by removing the four screws.
- 2) Loosen the four screws which fix the motor to the base.
- 3) Raise the motor and remove the worn belt.
- 4) Fit the new belt.
- 5) Push the motor downwards until the belt tension is normal.
- 6) Tighten the four screws.

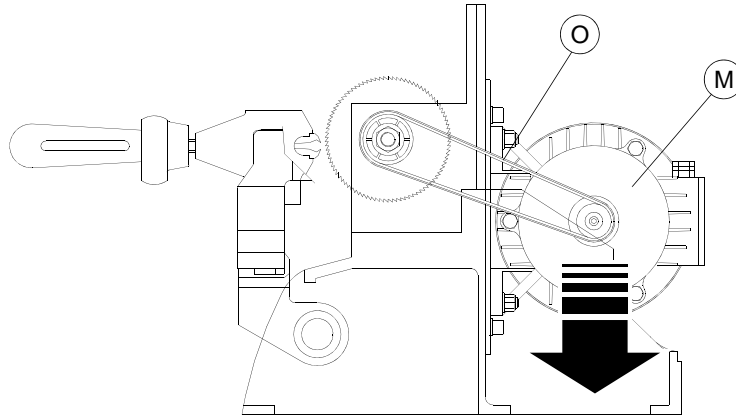


Fig. 20

7.3 Tracer point replacement

To replace the tracer point (I), proceed as follows (fig. 21):

ATTENTION: Unplug the machine from the mains.

- 1) Loosen the screw (I1).
- 2) Remove the worn tracer point.
- 3) Fit the new tracer point, pushing all the way in; ensure that the seat is clean.
- 4) Tighten the screw (I1).
- 5) Check the depth setting, as described in ch. 6, page 16.

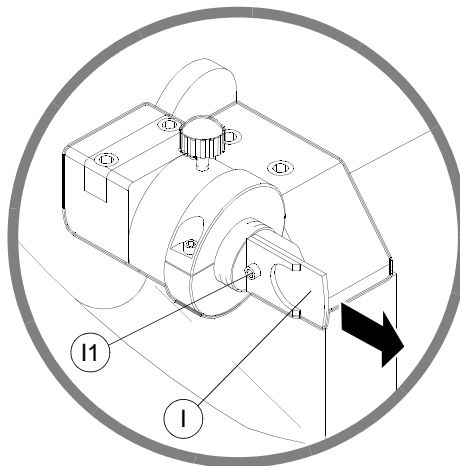


Fig. 21

7.4 Fuse replacement

ATTENTION: Unplug the machine from the mains.

- 1) Detach the wiring from the machine plug.
- 2) Turn the key-cutting machine to the right so that the fuse box is easily reached.
- 3) Remove the fuse box placed below the power inlet (Q) (fig. 22).
- 4) Replace the fuses (P).
- 5) Close the fuse box and connect the power cable.

ATTENTION: the fuses must be of the same type (rapid) and with the same amps (4A for the 230V machine; 8A for the 110V machine).

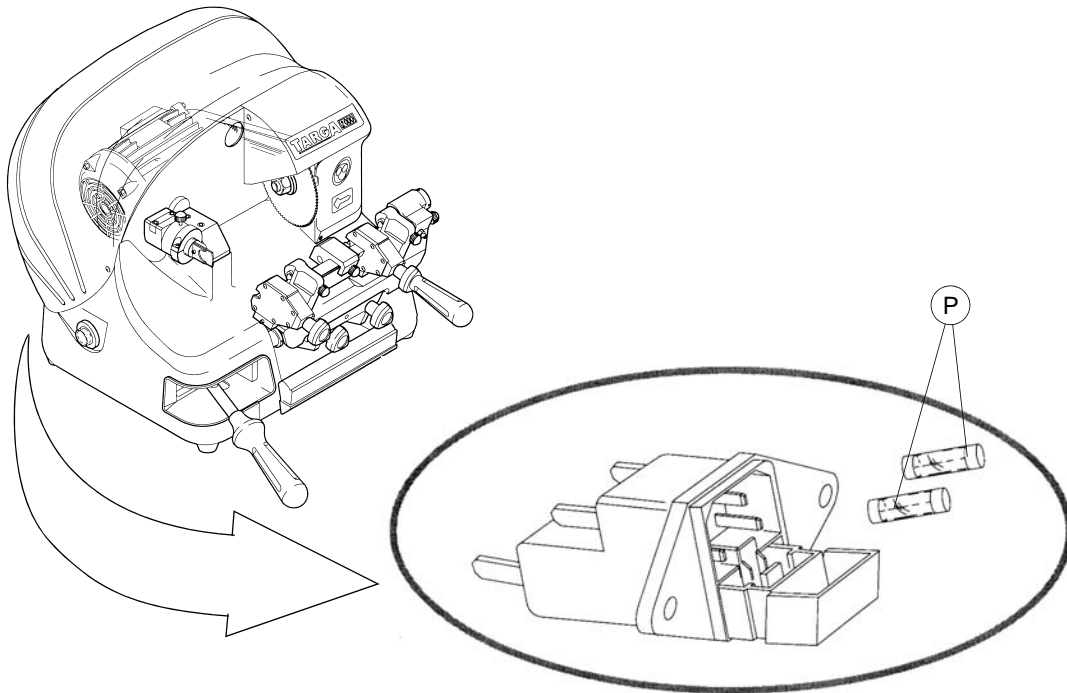


Fig. 22

8 WASTE DISPOSAL

EU regulations establish special arrangements for the disposal of waste (**).

Waste deriving from cutting operations

Although residue coming from the key-cutting operations is classified as special waste, it is included in solid urban waste (SUW) as metal wool.

Such waste is sorted according to its classification under current Italian and EU law and consigned to the proper disposal units.

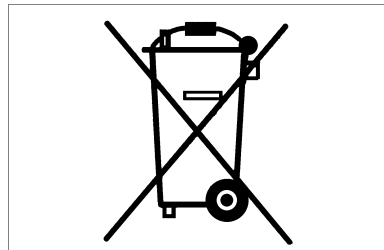
Cases where waste can be considered contaminated or containing toxic/harmful substances sufficient to transform it from SUW to toxic/harmful waste, are listed in the enclosures to current Italian and EU waste disposal regulations.

Re-cycling is a recommended ecological practice.

Packing

The TARGA 2000 is consigned in a cardboard packing box which can be re-used if undamaged. When it is to be thrown away it is classified as solid urban waste and should be placed in the special paper collecting bins.

The protective shell containing the machine is in polymer, classified as SUW, and can therefore be placed in an ordinary waste bin.



INFORMATION FOR USERS

*as per art. 10 of Directive 2002/96/CE of 27/01/2003
regarding waste from electric and electronic appliances (RAEE),*

- The symbol illustrated above, also found on the machine, indicates that it has been placed on the market and must be included in separate rubbish collection when the user wishes to dispose of it (including all components, sub-assemblies and consumables that are integrated in the product).
- For information about the collection system for such appliances please contact SILCA S.p.A. or another subject registered in the various National Rolls for other countries in the European Union. Household waste (or of similar origin) can be included in the separate collection system for urban waste.
- On purchasing a new appliance of equivalent type, the old one can be consigned to the dealer. The dealer will then contact whoever is responsible for collecting the appliance.
- Suitable separate collection of the unused appliance and its dispatch for treatment, recovery and environmentally compatible disposal, makes it possible to avoid potential negative effects on the environment and human health, and aids recycling and the recovery of the materials used.
- Unauthorised disposal of the product by users involves the application of the sanctions provided for in received Directives 91/156/CE and 91/689/CE

(**) "Waste" is any substance or object deriving from human activity or natural cycles, thrown away or to be thrown away.

9 ASSISTANCE

Silca provides full assistance to purchasers of the TARGA 2000 key-cutting machine.

To ensure complete safety for the operator, any job not specified in this manual should be carried out by the manufacturer or in the special Service Centres recommended by Silca.

On the back cover of this manual is a list of the manufacturer's addresses; listed below are the addresses of specialised Service Centres.

9.1 How to request service

The guarantee attached to TARGA 2000 key-cutting machines ensures free repairs or replacements of faulty parts within 12 months of purchase. All other service calls must be arranged by the customer with Silca or with a Silca service centre.



VITTORIO VENETO 11/11/2005

CE DECLARATION OF MACHINE COMPLIANCE

**SILCA S.p.A. - VIA PODGORA 20 (Z.I.)
31029 VITTORIO VENETO (TV) - (ITALY)
TEL. 0438 9136 - FAX. 0438 913800**

Declares under its own responsibility that the **Key-cutting machine** model

TARGA 2000

complies with the requirements of the following European Directives:

European Union **DIRECTIVE 98/37/CEE** (Machines)
and with the EN 292/1 – EN 292/2 Standards

European Union **DIRECTIVE 89/336/CEE** (Electromagnetic Compatibility)
and with the EN 55022 / IEC 801 – 2 / IEC 801 – 4 Standards

European Union **DIRECTIVE 73/23/CEE** (Low Voltage)
and with the EN 60204-1 / EN 60950 Standards

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General Manager Basic Production Center

Corrado Fischer