

SWIFT 2.0

Operating manual

Translation of original instructions

EN

D4A7838XA

vers. 3.0

CE

UK
CA



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GUIDE TO THE MANUAL

This manual has been produced to serve as a guide for users of the SWIFT 2.0 key-cutting machine. Read it carefully; it is essential 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 Ch. 1
- Description of machine and safety devices Ch. 2-3-4
- Proper use of machine Ch. 5-6-7
- Maintenance Ch. 8-9-10

Technical terms

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

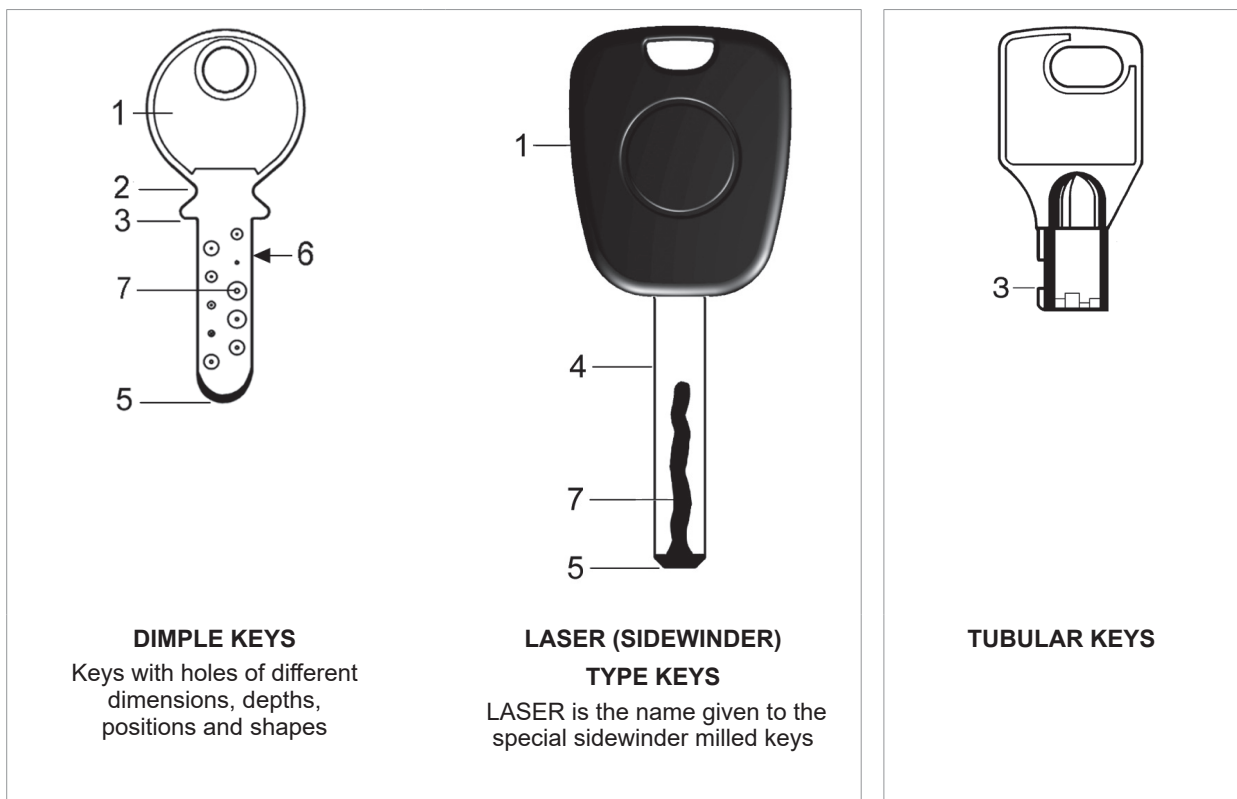


Fig. 1

Fig. 2

- | | |
|------------------|---------|
| 1) Head | 5) Tip |
| 2) Rim | 6) Edge |
| 3) Shoulder Stop | 7) Cuts |
| 4) Stem | |

GENERAL INTRODUCTION

The SWIFT 2.0 key-cutting machine has been designed according to CE specifications.

From the design stage risks for the operator have been eliminated in all areas: transport, key-cutting, calibration and maintenance.

Other risks have been eliminated by the use of protective devices for the operator.

The protective devices used are designed not to provoke further risks and, above all, they cannot be ignored unless deliberately cut out. They do not hinder visibility of the work area.

A special adhesive label is attached to the machine warning the operator to use goggles during the cutting operations, and this is strongly recommended 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 SWIFT 2.0 must be installed and used as specified by the manufacturer.

The SWIFT 2.0 key-cutting machine must be used only by skilled personnel (professional use).

The key-cutting machine is designed for use on business or industrial premises (e.g. hardware shops, key cutting centers, etc...).

If the key-cutting machine is used differently or for purposes different from those described in this manual, the customer will forego any rights he may have over the Company. 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 OBLIGATORY to read the manual carefully before using the machine.

Further Risks

There are no further risks arising from the use of the machine.

Protection and safety precautions for the operator

The SWIFT 2.0 key-cutting machine is built entirely to CE 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 (wearing protective goggles) and observation of the instructions provided by the manufacturer in this manual eliminate all human error, unless deliberate. The SWIFT 2.0 key-cutting machine is designed with features which make it completely safe in all of its parts and operation.

• Power supply

The key-cutting machine is powered by electricity supplied through a separate grounded plug.

• Start-up

The machine is turned on by means of the master switch located on the right-hand side. The switch has a safety function that prevents untimely start-up when voltage returns after a power outage.

• Operation

The machine is started up by means of a motor switch located on the right-hand side.

• Illumination

The work area is illuminated by a lamp which operates when the machine is switched on with the master switch.

• 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 re-placed wrongly or unsafely.

• **Machine identification**

The SWIFT 2.0 key-cutting machine is provided with an identification label which shows the serial number (Fig. 3).

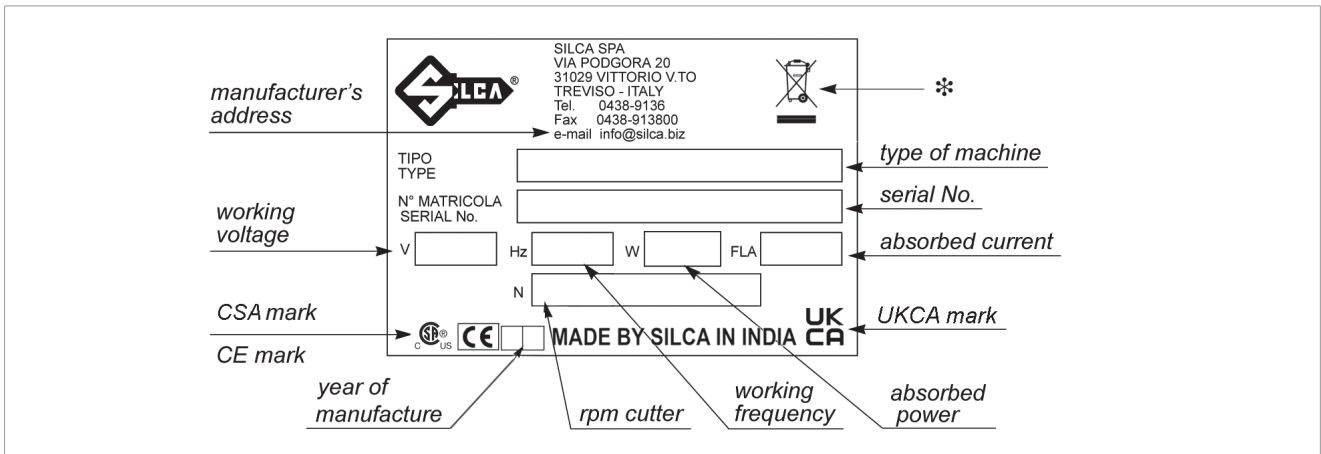


Fig. 3

(*) see chap.10 DISPOSAL.

**US and Canadian users should read
the following instructions with particular attention**

GROUNDING INSTRUCTIONS

1. All grounded cord-connected tools:

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150V:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in sketch A in Fig. 4. The tool has a grounding plug that looks like the plug illustrated in Sketch A in Fig. 4. A temporary adapter, which looks like the adapter illustrated in Sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.



Exception: in Canada, the use of a temporary adapter is not permitted by Canadian Electrical Code (CEC) C22.1.

3. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating between 150 - 250 V, inclusive:

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Sketch D in Fig. 4. The tool has a grounding plug that looks like the plug illustrated in Sketch D in Fig. 4. Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this tool. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the tool should comply with all local codes and ordinances.

GENERAL INSTRUCTIONS

1. Use original spare parts, accessories and attachments. Contact your local distributor/retailer for a full list of recommended components. Check chapter "Accessories Provided" for the complete list of the accessories provided with this machine and their proper use.



The installation and use of accessories not recommended by the manufacturer may cause harm to people and/or may damage the machine.



Read and observe with attention the instructions included in this manual on the use and handling of the accessories provided with this machine (chapter "Accessories Provided"). Negligent use or failure by the operator to observe the instructions in this manual may be dangerous for the operator, for nearby people and may cause damage to the machine.

- 2. KEEP GUARDS IN PLACE** and in working order.
- 3. REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 4. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- 5. DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
- 6. KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
- 7. MAKE WORKSHOP KID PROOF** with padlocks, master switches, or by removing starter keys.
- 8. DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- 9. USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.

- 10. **USE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table "A" shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.
- 11. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
- 12. **ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 13. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
- 14. **DON'T OVERREACH.** Keep proper footing and balance at all times.
- 15. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. **DISCONNECT TOOLS** before servicing; when changing accessories, such as blades, bits, cutters, and the like.
- 17. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
- 18. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
- 19. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- 20. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function - check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 21. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 22. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

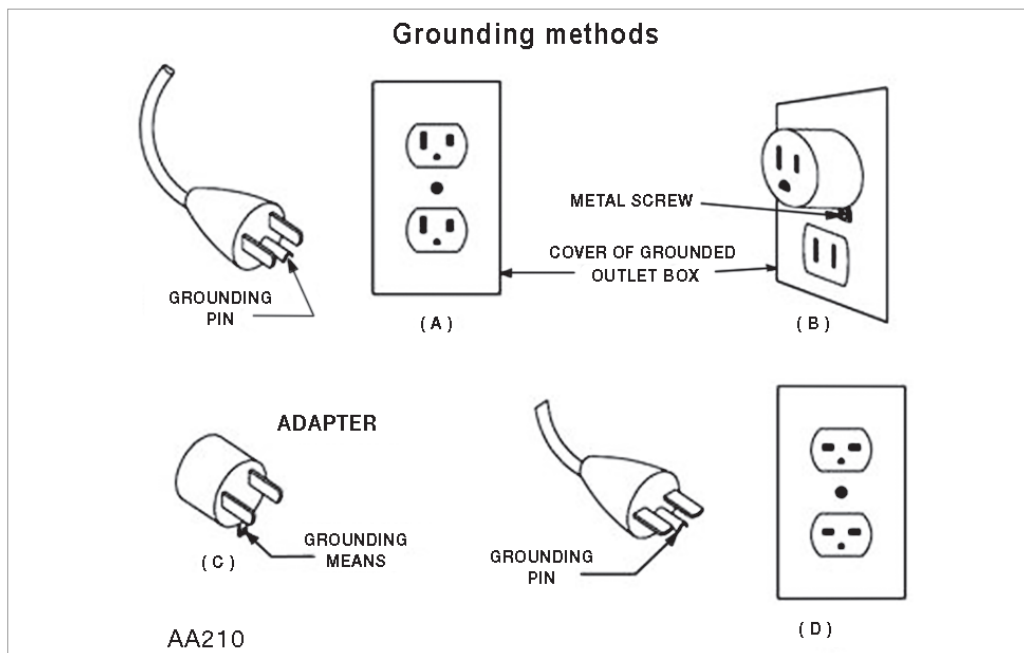


Fig. 4

Ampere Rating		Volts	Total length of cord in feet		
		120 V	25 ft	50 ft	100 ft
More Than	Not more than	AWG			
0	6		18	16	16

Table "A" - minimum gage for cord

1 TRANSPORT

The SWIFT 2.0 key-cutting machine is easily transported and is not dangerous to handle. The packed machine can be carried by two persons.

1.1 PACKING

The packing used for the SWIFT 2.0 guarantees that the machine will travel safely without danger of damage to it or its components. The packing comprises two shells, lower and upper in expanded plastic in the machine is wrapped.

A strong outer cardboard box, the measurements of which can be seen in Fig. 5 and the plastic wrapping protect the machine even over a long period of storage.

Note: keep the packing and use it every time the machine must be transported.

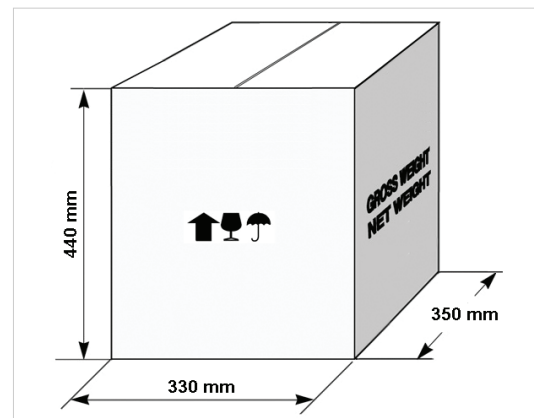


Fig. 5



Keep dry



Handle with care



Up

1.2 TRANSPORT

Symbols are printed on the outside of the cardboard box to give instructions and warnings for transportation. Use of the packing box whenever the machine is transported will avoid knocks or bumps which could cause damage.

1.3 UNPACKING

To remove the machine from the packing box:

- 1) Cut the straps with scissors and remove.
- 2) Open the box without damaging it so that it may be used again (e.g. shipping to the manufacturer for repairs or servicing).
- 3) Check the contents of the box, which should comprise:
 - 1 SWIFT 2.0 key-cutting machine packed in a protective shell
 - 1 set of documents, including: operating manual, spare parts list and guarantee
 - 1 accessory container
 - 1 separate grounded plug wire
 - 1 transparent plastic shield
- 4) Remove the key-cutting machine from the protective shell.

1.4 HANDLING THE MACHINE

When the SWIFT 2.0 has been unpacked, place it directly on its workbench. This operation can be carried out by one person.

ATTENTION: hold the base, and no other part, to lift and carry the machine.

1.5 SAFETY

• Protective shield

A special transparent plastic shield prevents chippings from flying into the air.

2 MACHINE DESCRIPTION

The SWIFT 2.0 is an excellent quality, high precision key-cutting machine. It features great versatility in cutting keys of different types and in some cases the need of adapters.

SWIFT 2.0 cuts the following types of keys:

- **DIMPLE KEYS (not inclined cuts)**
- **LASER (SIDEWINDER) type keys**
- **TUBULAR KEYS**

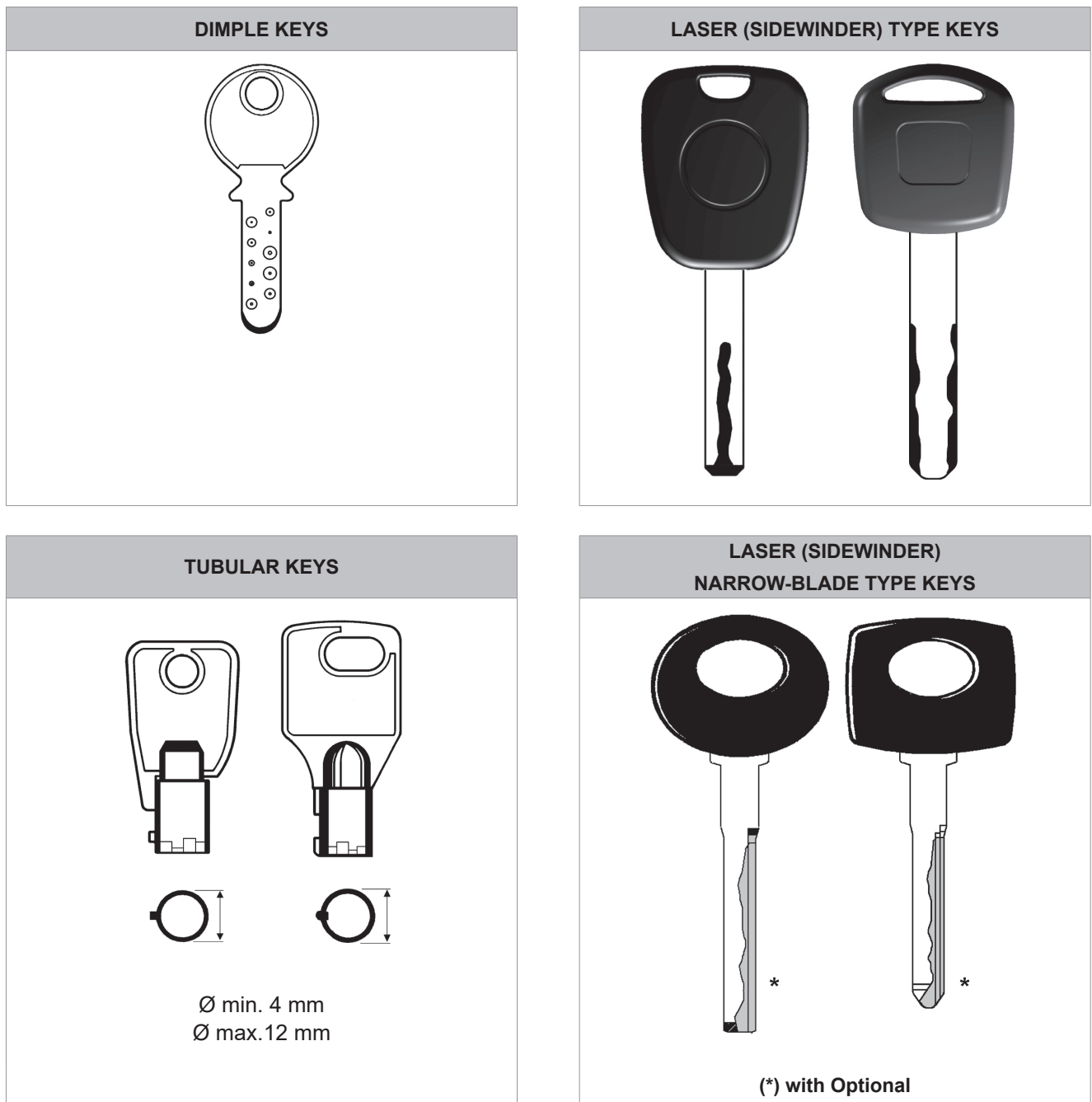


Fig. 6

High precision work is guaranteed by the combination of the functional features on the SWIFT 2.0 and all its components, such as:

- **MOVEMENTS**

The two axes move on ball guides which provide smooth running and easy sliding without play.

- **TRACER POINT SPRING SYSTEM**

This system guides and facilitates self-centering of the cuts on dimple keys.

- **PROTECTIVE SHIELD**

A special transparent plastic shield minimizes exposure to the cutter and chips.

- **LAMP**

Placed directly on the machine, it illuminates the work area.

- **TRACER POINT ADJUSTING RING NUT**

Ensures perfect depth alignment of the tools and makes it possible to adjust for defects on worn keys.

- **LEVERS AND KNOBS**

Each lever and knob has been designed with dimensions, materials and positions which render grip and movement extremely simple.

Materials and finish have been chosen according to the use of each part, especially:

- lever (J) for vertical carriage (Z axis)
- lever (C) X-Y axes

Note: the letters in brackets refer to Fig. 8, page 9.

The lever which guides movement along the X-Y axes is ergonomic and allows for precise, sensitive movements.

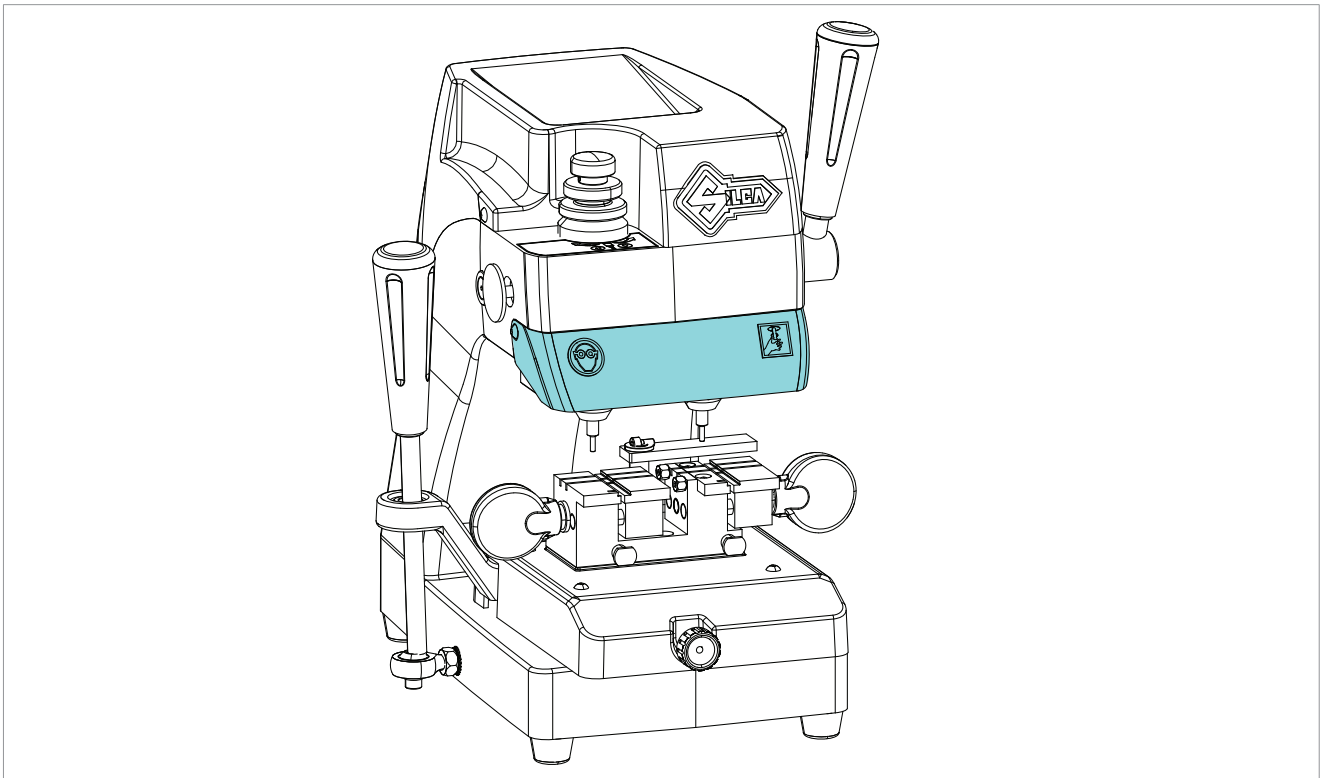


Fig. 7

3 WORKING PARTS

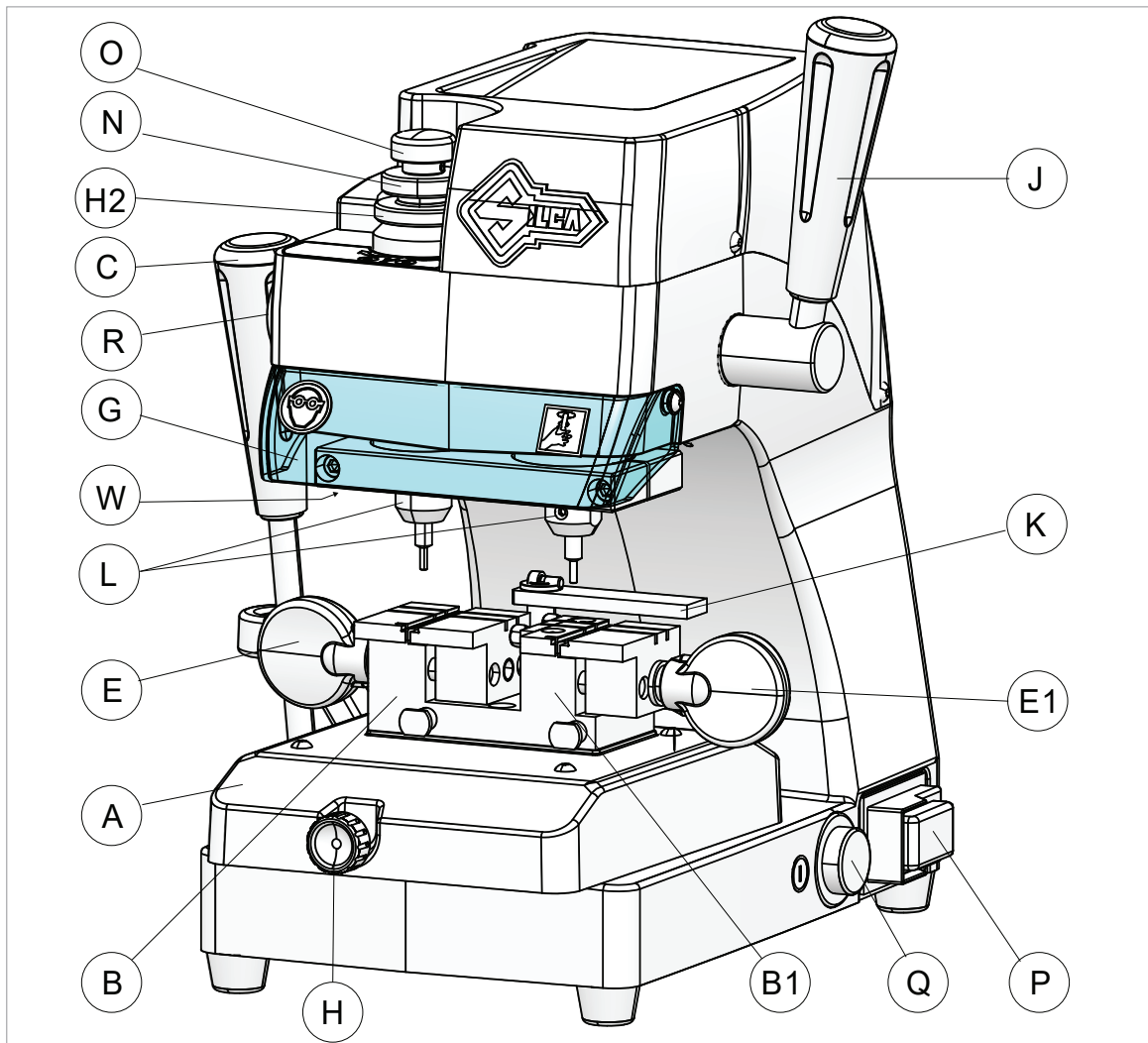


Fig. 8

A - clamp carriage (X-Y axes)

B - left-hand jaw

B1- right-hand jaw

C - clamp carriage lever (X-Y axes)

E - left-hand jaw knob

E1- right-hand jaw knob

G - protective shield

H - clamp carriage locking knob

H2- tracer point adjustment locking nut

J - vertical carriage lever (Z axis)

K - tubular key alignment bar

L - sleeves (cutting tool and tracer point holder)

N - ring nut for tracer point adjusting

O - spring regulation ring nut

P - master switch

Q - motor start switch









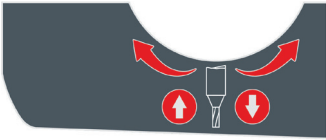

R - "Z" axis locking knob

W - lamp

3.1 TECHNICAL DATA

Electricity supply:	220V-230V / 50-60Hz 110V-120V / 60Hz
Maximum absorbed power:	220V-230V: 1 Amp 200 Watt 110V-120V: 1.3 Amp 200 Watt
Motor:	One-speed single phase
Cutting tools:	Super rapid steel HSS - Coated
Tool speed:	50Hz: 6000 rpm (+/- 10%) - 60Hz: 6000 rpm (+/- 10%)
Movements:	on 3 axes through balls and guides
Clamps:	fixed
Runs:	X axis (lower): 24 mm - Y axis (upper): 50 mm - Z axis (vertical): 22 mm
Dimensions :	width: 260 mm depth: 285 mm height: 315 mm
Weight:	13 Kg.
Sound pressure:	76 dB(A)

GRAPHICS ON THE SWIFT 2.0 MACHINE

			
THE USE OF PROTECTIVE GOGGLES IS REQUIRED	READ INSTRUCTIONS BEFORE USE	WARNING! TOOL IN ROTATION	WARNING! PRESENCE OF ELECTRIC POWER
			
GROUND CONNECTION	CUTTER ROTATION DIRECTION	CAUTION STICKER (ONLY ON CSA VERSIONS)	PROTECT FROM RAIN (ONLY ON CSA VERSIONS)
			
TRACER POINT ADJUSTMENT	WARNING! SWITCH OFF THE MACHINE AND UNPLUG IT BEFORE REMOVE THE COVER		

3.2 ELECTRIC CIRCUIT

The main parts of the electrical and electronic circuit on the SWIFT 2.0 machines are listed below:

SWIFT 2.0

• 120V

- 1) Machine plug
- 2) Fuses 8 Amp rapid (110V/120V)
- 3) Master switch
- 4) Lamp
- 5) Motor switch (illuminated)
- 6) Electric motor: 120V/50-60Hz

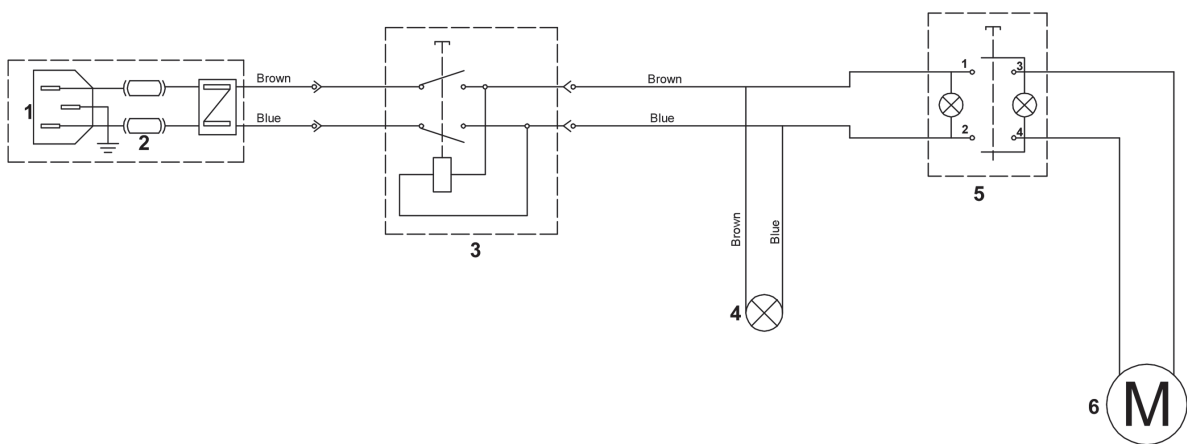


Fig. 9 - SWIFT 2.0 120V

• 230V

- 1) Machine plug
- 2) Fuses 4 Amp rapid (220V/230V)
- 3) Master switch
- 4) Lamp
- 5) Motor switch (illuminated)
- 6) Filter
- 7) Electric motor: 240V/50-60Hz

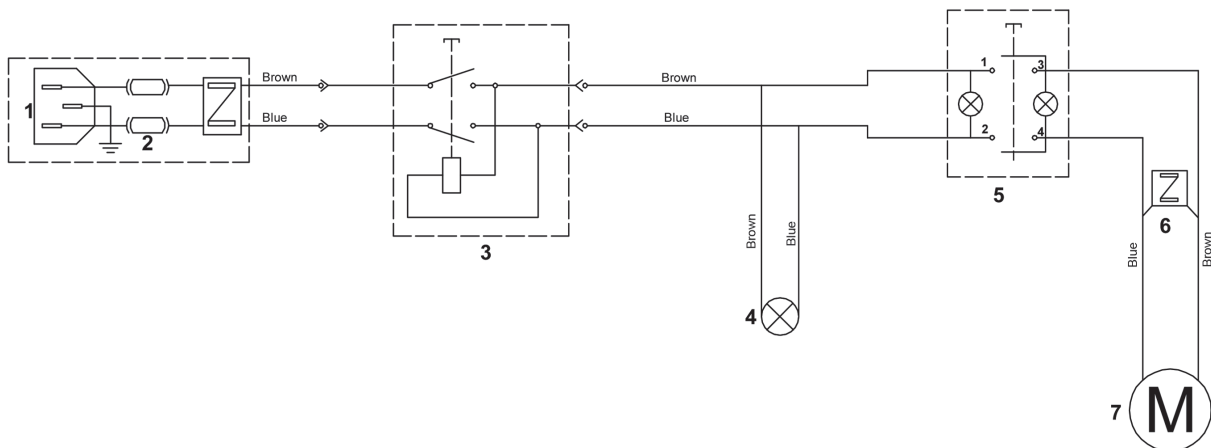
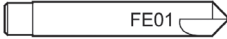




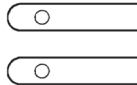



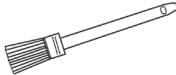


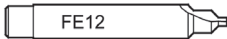
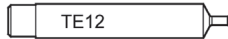

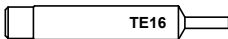
Fig. 10 - SWIFT 2.0 230V

4 ACCESSORIES PROVIDED

A set of accessories is supplied for use with the machine or for servicing (tools, Allen keys and adapters).
The accessories provided are:

SWIFT 2.0 (all versions)	
 <p>CUTTING TOOL FE01 for dimple keys</p>	 <p>2,5 mm ALLEN KEY</p>
 <p>TRACER POINT TE01 for dimple keys</p>	 <p>3 mm T shape ALLEN KEY</p>
 <p>CUTTING TOOL FE04 for Laser (sidewinder) keys</p>	 <p>TIP STOP BARS 2 pcs.</p>
 <p>TRACER POINT TE04 for Laser (sidewinder) keys</p>	 <p>CALIBRATION BARS (marked "L" and "R") 2 pcs.</p>
 <p>FUSES (2 pcs) 4 Amp - rapid (220V/230V) 8 Amp - rapid (110V/120V)</p>	 <p>BRUSH</p>

Some versions of cutting machines (indicated by the machine code) come with the following accessories:

D8A7819ZB - D8A8786ZB	
 <p>CUTTING TOOL FE12 for Laser (sidewinder) keys</p>	 <p>TRACER POINT TE12 for Laser (sidewinder) keys</p>
 <p>CUTTING TOOL FE16 for Flat Automotive Key Cutting</p>	 <p>TRACER POINT TE16 for Flat Automotive Key Cutting</p>

5 MACHINE INSTALLATION AND PREPARATION

The key-cutting machine can be installed by the purchaser and does not require any special skills.

The machine is supplied ready for use and does not need to be set up, except when changing to different tools. However, some checks and preparation for use need to be carried out by the operator.

5.1 CHECKING FOR DAMAGE

The SWIFT 2.0 key-cutting machine 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.

5.2 ENVIRONMENTAL CONDITIONS

To ensure that the best use is made of the SWIFT 2.0 key-cutting machine, certain parameters must be borne in mind:

- damp, badly ventilated sites should be avoided.
- the ideal conditions for the machine are:
between 10 and 40°C; relative humidity: approximately 60%

5.3 POSITIONING

Place the key-cutting machine on a horizontal surface, solid enough to take the weight.

The height of the workbench must allow good vision and comfortable access to the operative parts.

It is important to leave clearance of at least 12" (30 cm) behind the machine and on each side to ensure proper ventilation.

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

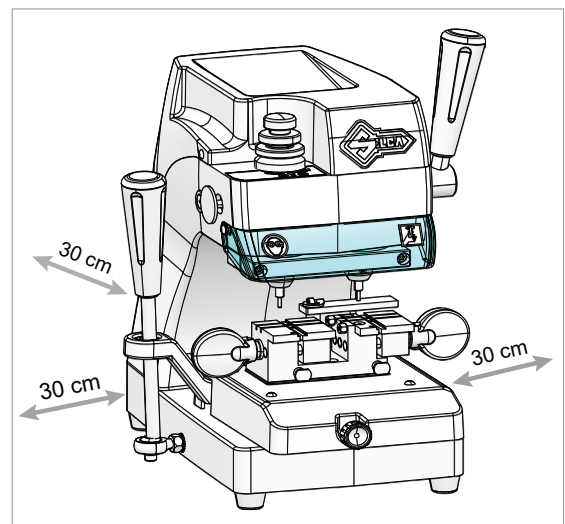


Fig. 11

5.4 DESCRIPTION OF WORK STATION

The key-cutting machine needs only one operator, who has the following controls at his/her disposal:

- **master switch (P)**
- **motor start switch (Q)**
- **levers:**
 - lever (C) to move the clamp carriage
 - lever (J) to move the vertical carriage

Note: the letters in brackets refer to Fig. 8, page 9.

6 SEPARATE PARTS

⚠ ATTENTION - PLEASE INSTALL PLASTIC SHIELD BEFORE START OF THE MACHINE!

The transparent plastic shield and its fasteners are supplied separately with the machine. Before starting the machine, please ensure to mount the plastic shield (1) on the machine with screws (4), washers (3) and rubber rings (2) provided. Please follow the sequence as shown in below picture. Do not tighten the screws too tightly otherwise the plastic shield may crack.

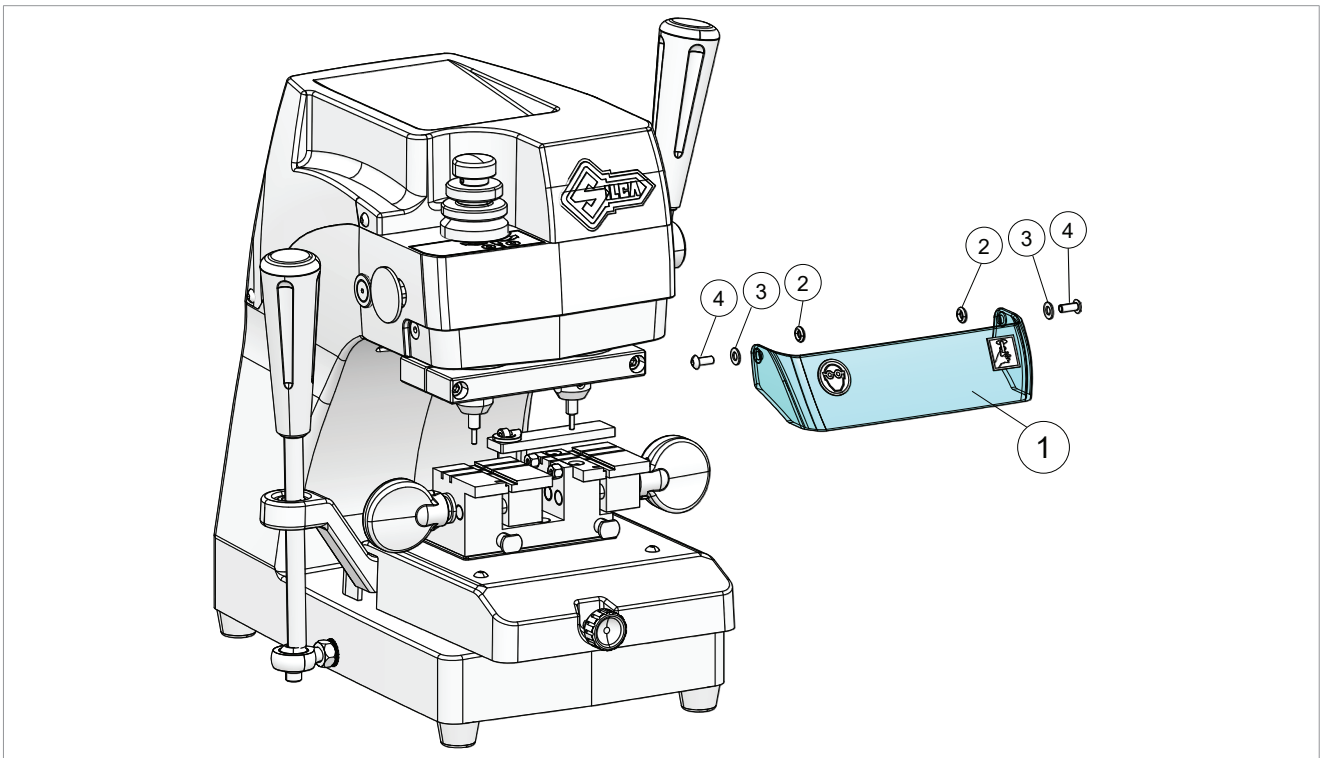


Fig. 12

7 MACHINE REGULATION AND UTILIZATION

Before carrying out cutting operations:

- insert the proper cutter and tracer
- activate the spring system (if cutting dimple keys) (ch.8.4).

7.1 FITTING AND REGULATING THE TOOLS

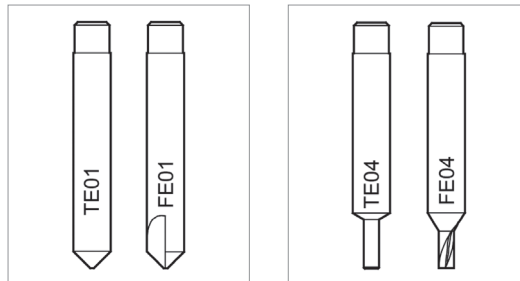


Fig. 13

⚠ ATTENTION: turn power off on machine.

To fit the tracer point and cutting tool into the sleeves:

- 1) Place the tracer point all the way into the left-hand sleeve and secure by tightening the grub screw (M) (Fig. 14).
- 2) Place the cutting tool all the way into the right-hand sleeve and secure by tightening the grub screw (M1).

Releasing the tools

Unscrew the grub screw (M) and (M1) to remove the tracer point and cutting tool from the sleeves.

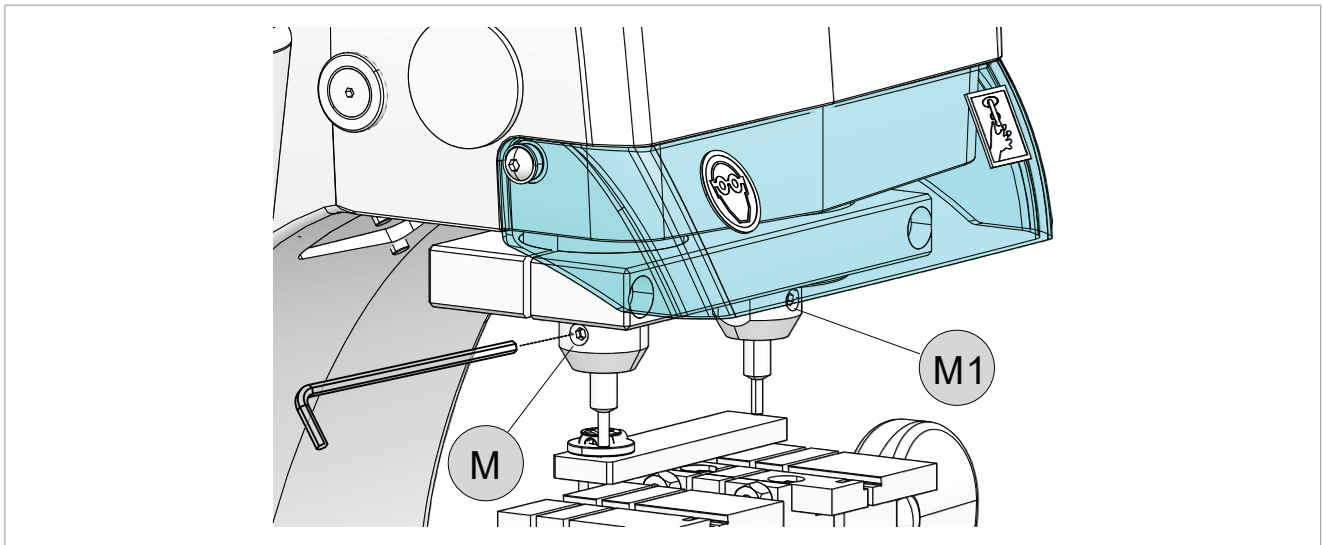


Fig. 14

7.2 CALIBRATION OF CUTTER AND TRACER

Note: the SWIFT 2.0 key-cutting machine is equipped with a spring mechanism which allows precise duplication of dimple keys. The spring system is to be used only for dimple keys (ch.8.4) and is activated by rotating the ring nut (O).

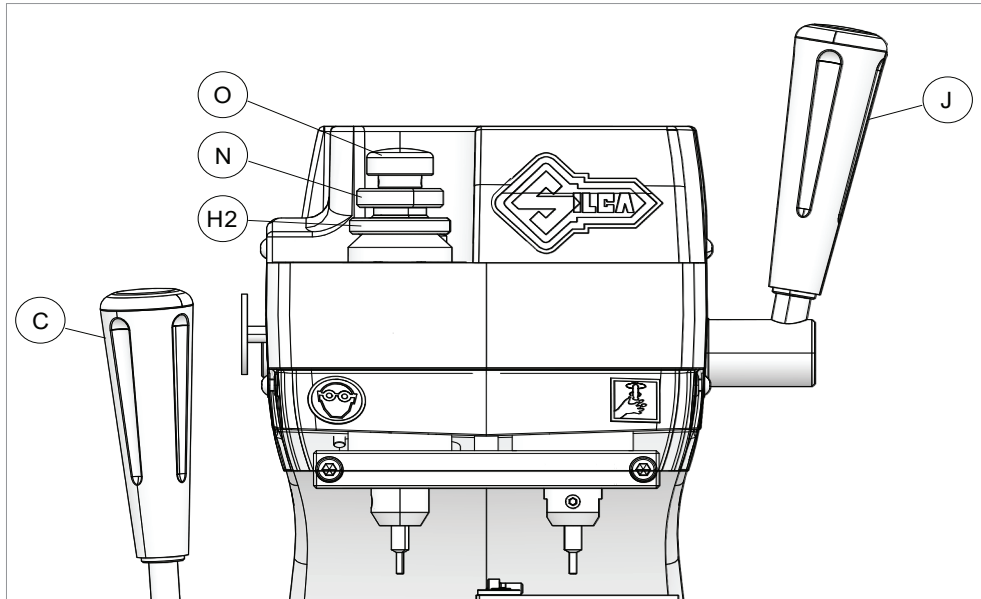


Fig. 15

To calibrate, insert the cutter and tracer into their spindles and proceed as follows:

QUICK CALIBRATION

Note: for this type of calibration use the “L” and “R” bars provided.

- 1) Turn off the motor with switch (Q).
- 2) Fit the “L” calibration bar into the left-hand clamp (tracer side) and lock with knob (E) (Fig. 16).
- 3) Fit the “R” calibration bar into the right-hand clamp (cutter side) and lock with knob (E1).
- 4) Lock nuts (H2) and (O).
- 5) Slightly loosen the grub screw (M) locking the tracer. Pull down the tracer point approx. 4 mm.
- 6) Use lever (J) to lower the vertical carriage and take the tracer and cutter into contact with the two bars.
- 7) Tighten the tracer grub screw (M).

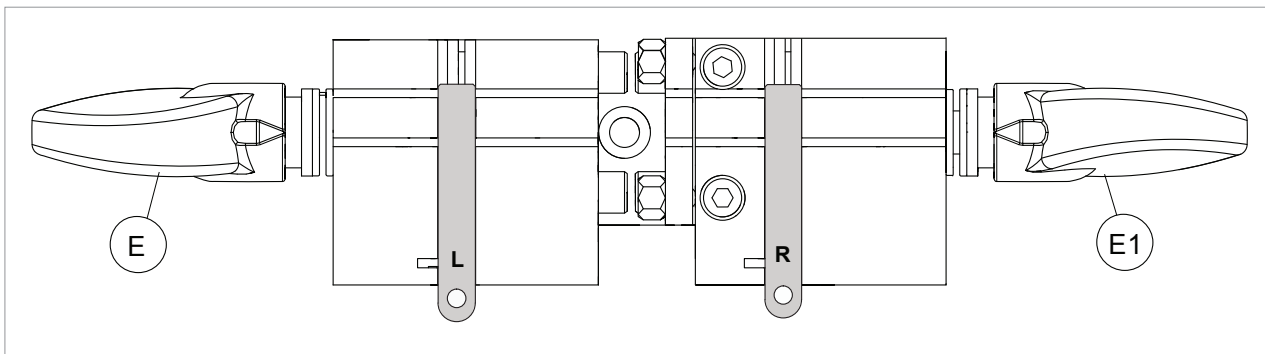


Fig. 16

CALIBRATION

Note: for this type of calibration use two identical key blanks.

- 1) Turn off the motor with switch (Q).
- 2) Fit the key blanks into the clamps.
- 3) Loosen the top nut (O).
- 4) Loosen the large nut (H2).
- 5) Turn the nut (N) a few turns clockwise to lower the tracer.
- 6) Turn on the motor with switch (Q).
- 7) Use the lever (J) to lower the vertical carriage until the tracer touches the key in the left-hand clamp (Fig. 17).
- 8) Hold the lever (J) tight, turn the central nut (N) anticlockwise until the cutter skims the key in the right-hand clamp (Fig. 18). Release the lever (J) and turn off the motor.
- 9) Hold nut (N) still and lock the bottom nut (H2).

Note: to cut laser type keys lock the nut (O) to deactivate the tracer spring.

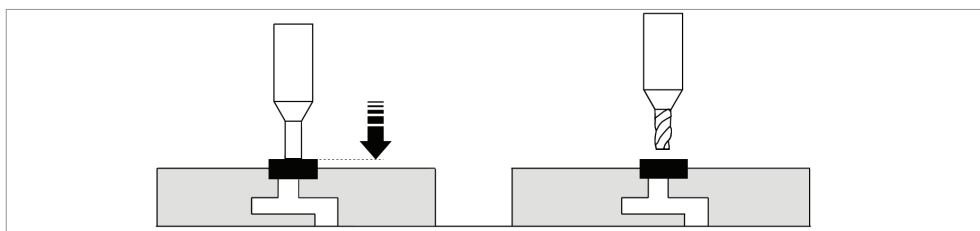


Fig. 17

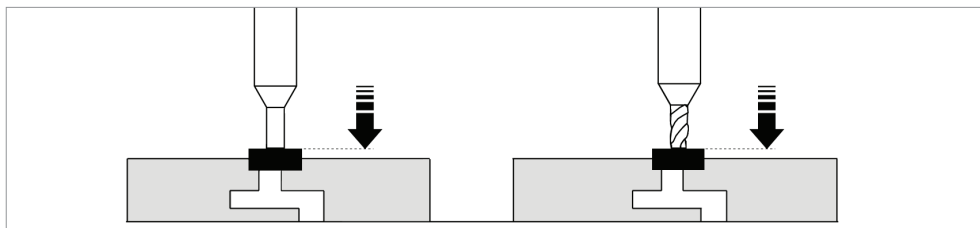


Fig. 18

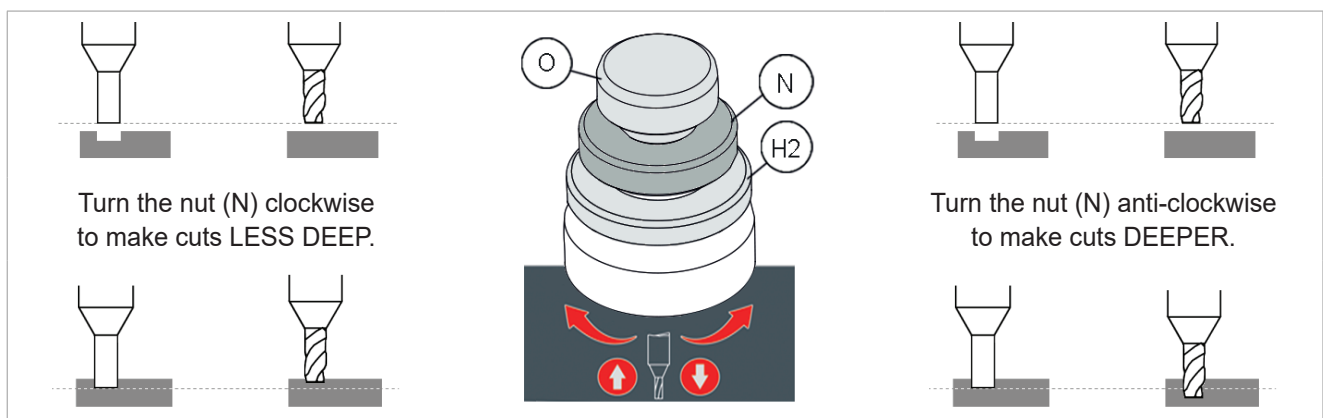


Fig. 19

8 CUTTING OPERATIONS

⚠ ATTENTION: for complete safety during the cutting operations, take the following precautions:

- Always work with dry hands.
- Ensure that the machine is properly grounded.
- Wear protective goggles even if the machine is provided with a safety shield.
- Keep hands away from the cutting tool in motion.
- Before starting the motor (switch Q), carry out the following operations:
 - a) place the original and blank keys into the clamps.
 - b) rotation of key to be cut.
 - c) install and calibrate the cutter and tracer (ch.7.2).
 - d) check that the tubular key alignment bar (K) is in the idle position (Fig. 21 and Fig. 22).

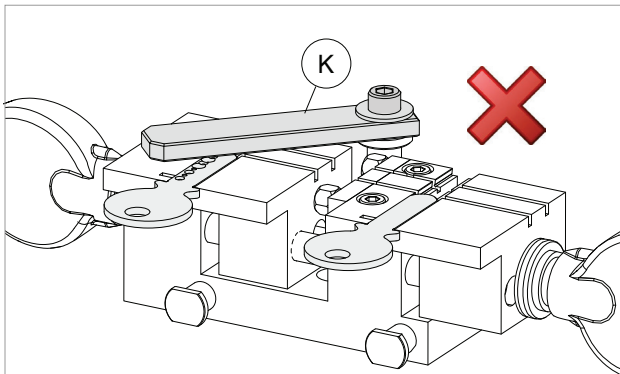


Fig. 20

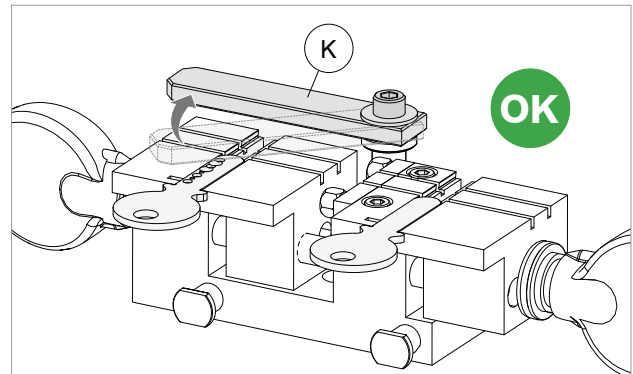


Fig. 21

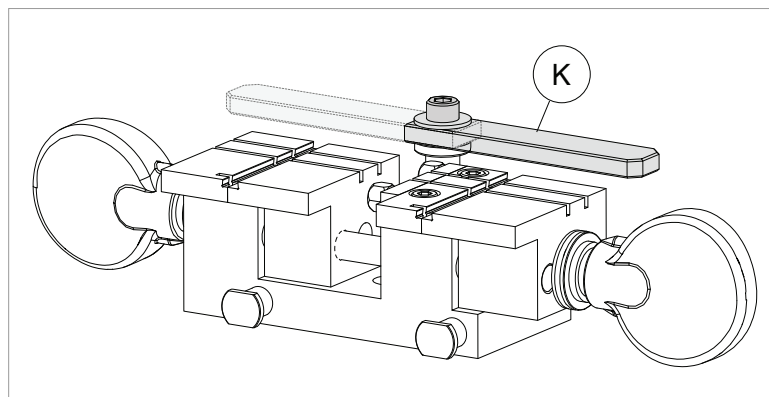


Fig. 22 - idle positions

8.1 KEY CUTTING

- 1) Turn on the machine using switch (P).
- 2) Once the keys have been loaded and gauged properly, press the switch (Q) to turn on the cutter.
- 3) Grip lever (C) and take the clamp unit towards the tracer and cutter.
- 4) Use lever (J) to lower the vertical carriage until the tracer enters the dimple/cut on the original key. Exert the necessary pressure on lever (J) for the cutter to shave the cut.
- 5) Repeat this operation for each dimple.
- 6) After cutting the first side, turn off the motor with switch (Q).
- 7) Turn the key to be cut by 180°.
- 8) Start the motor and cut the second side of the key.
- 9) When all the cuts have been made, turn off the motor with switch (Q) and remove the keys from the clamps.

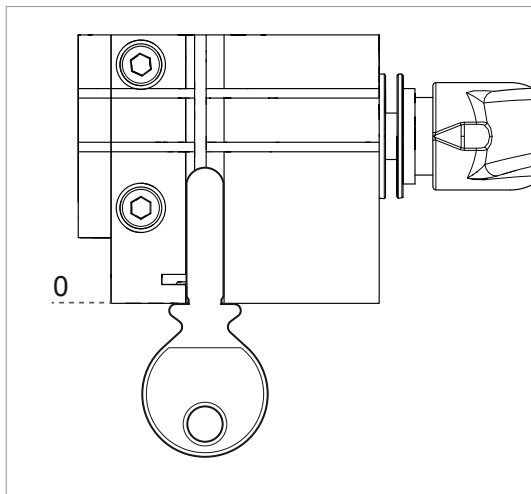


Fig. 23

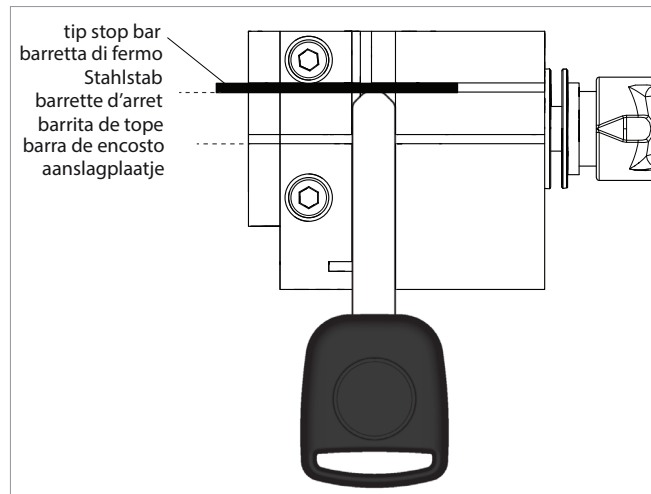


Fig. 24

8.2 CUTTING KEYS WITH KEY STOPS

- 1) Place the original key into the left-hand clamp of the machine making sure that the key stop is pressed against the clamp (Fig. 23) and lock it.
- 2) Place the key to be cut into the right-hand clamp of the machine making sure that the key stop is pressed against the clamp and lock it.
- 3) Calibrate the machine (ch. 7.2). Every time cutter or tracer point are changed, check machine calibration.
- 4) Cut the key according to chapter 8.1.

8.3 CUTTING KEYS WITHOUT KEY STOPS

- 1) Insert the tip stop bar (provided) into the appropriate slots on the clamp according to the key to be cut.
- 2) Place the original key into the left-hand clamp of the machine making sure that the key tip is pressed against the stop bar (Fig. 24) and lock it.
- 3) Place the key to be cut into the right-hand clamp of the machine making sure that the key tip is pressed against the stop bar and lock it.



ATTENTION: remove the stop bar.

- 4) Calibrate the machine (ch. 7.2). Every time cutter or tracer point are changed, check machine calibration.
- 5) Cut the key according to chapter 8.1.

Cutting the edge

If cuts are to be made on the edge, place the key in a vertical position and lock it.

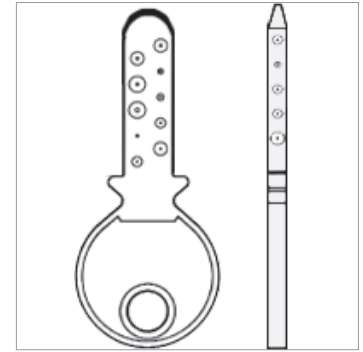


Fig. 25

8.4 INSERTING THE TRACER POINT SPRING SYSTEM

The SWIFT 2.0 key-cutting machine is equipped with a spring mechanism which allows precise duplication of dimple keys. Using this system, it is possible to position the tracer into the groove of the sample first and then proceed with cutting the key.

The spring system is to be used only for dimple keys (Fig. 1) and is activated by loosening the ring nut (O).

Note: for laser type keys (Fig. 1) deactivate this function.

8.5 CUTTING LASER (SIDEWINDER) TYPE KEYS

⚠ ATTENTION: before starting to cut laser (sidewinder) type keys, deactivate the spring system by ring nut (O) (ch.8.4).

- 1) Load the original key into the left side jaw.
- 2) Use lever (J) to lower the vertical carriage, without exerting too much pressure, until the tracer rests in the bottom of the cut on the original key (Fig. 26) and secure the spindle at this height by means of knob (R).
- 3) Without raising the vertical carriage, pull the clamp carriage towards the operator and load the key blank to be cut in the right side jaw.
- 4) Start the cutting operation by activating switch (Q).
- 5) Carry out cuts using only the left-hand lever (C) as shown in Fig. 28 below.

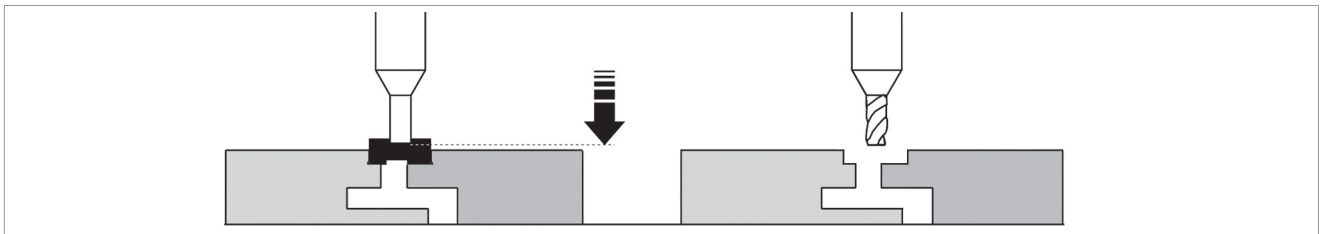


Fig. 26

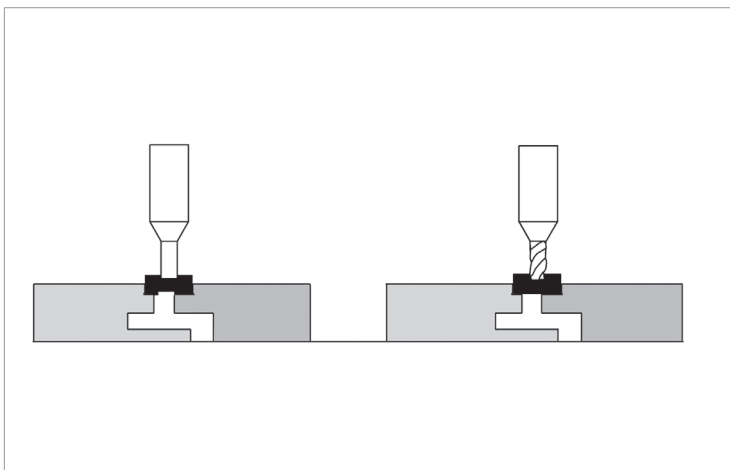


Fig. 27

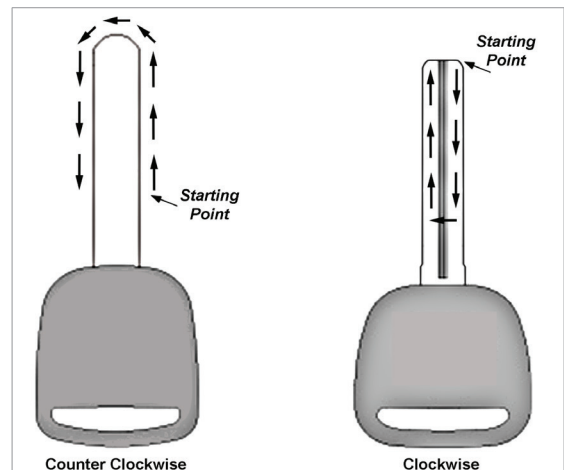


Fig. 28

8.6 CUTTING NARROW-BLADE LASER (SIDEWINDER) TYPE KEYS (ART.HU41P-HU55P-HU64P...)

Optional adapters can be applied for cutting laser type keys with thin stems.

Note: the adapters are optional or provided with certain key-cutting machines (see chap. 4 ACCESSORIES PROVIDED).

Proceed as follows:

- 1) Open the clamps by loosening knobs (E) and (E1).
- 2) Insert the adapters into the clamps.
- 3) Place the tip stop bar into the groove of the left side jaw.
- 4) Insert the original key into the left side adapter so that it butts against the bar.
- 5) Secure adapter and key by tightening knob (E).
- 6) Remove the bar.
- 7) Use lever (J) to lower the vertical carriage, without exerting too much pressure, until the tracer rests in the bottom of the cut on the original key (Fig. 29) and secure the spindle at this height by means of knob (R).
- 8) Without raising the vertical carriage, pull the clamp carriage towards the operator.
- 9) Place the tip stop bar into the groove of the right side jaw, load the key blank to be cut in the right side adapter so that it butts against the bar.
- 10) Secure adapter and key by tightening knob (E1) and remove the bar.
- 11) Start the cutting operation by activating switch (Q).
- 12) Carry out cuts using only the left-hand lever (C) as shown in Fig. 31 below.

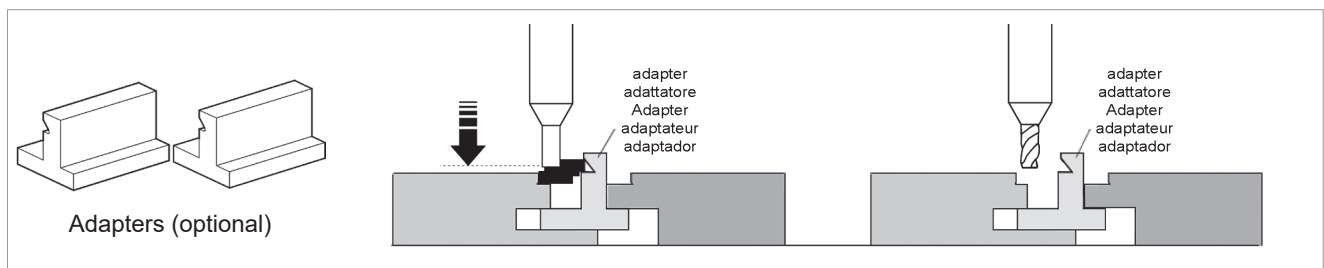


Fig. 29

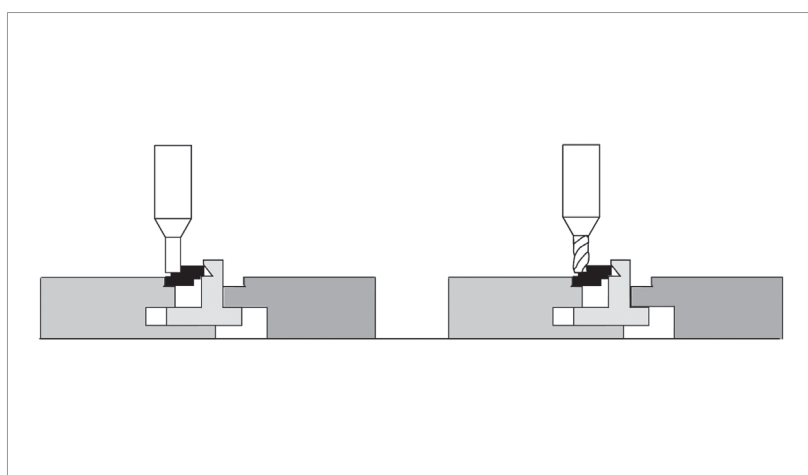


Fig. 30



Fig. 31

8.7 CUTTING TUBULAR KEYS

 **Check that the motor start switch (Q) is OFF.**

- 1) Insert the tools into their spindles.
- 2) Fit the keys into their seats on the clamps (original key in the left-hand clamp and key blank in the right-hand clamp) as follows:
 - align the key stop with the jaw notch (D) (Fig. 32).
 - maintain alignment by holding the key head up against the positioning device (F) (Fig. 33).
 - use the knob (E) or (E1) to lightly secure the key.
 - take the aligning bar (K) over the key (Fig. 34). Raise the key until it is up against the bar (Fig. 35).
 - secure the key with the knob (E) or (E1).
- 3) When both keys are in position, take the bar (K) to the idle position (Fig. 32).
- 4) Calibrate the tools.
- 5) Enable the tracer point spring function loosening nut (O).
- 6) Turn on the machine with the master switch (P).
- 7) Grip the levers (C) and (J) and turn on switch (Q) to start the motor.
- 8) Hold the carriage with the left-hand lever (C), lower the vertical carriage with the right-hand lever (J) until the tracer point centres on one of the cuts in the key and continue to lower (using the tracer point spring function) to reach cutting depth.
- 9) Move the lever (C) slightly to complete each single cut.
- 10) Repeat this operation for each cut on the key.

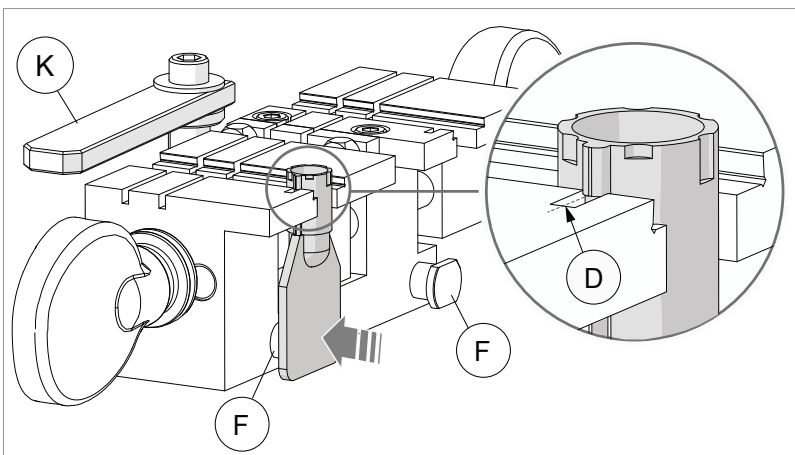


Fig. 32

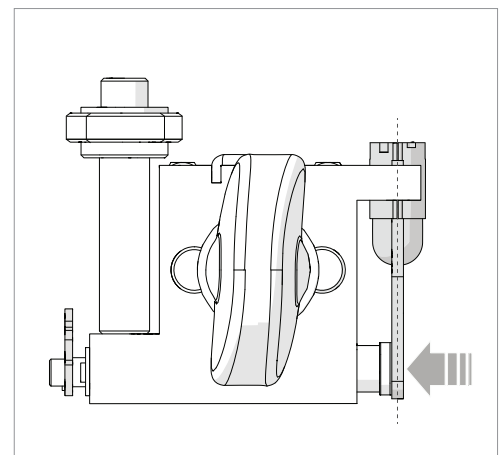


Fig. 33

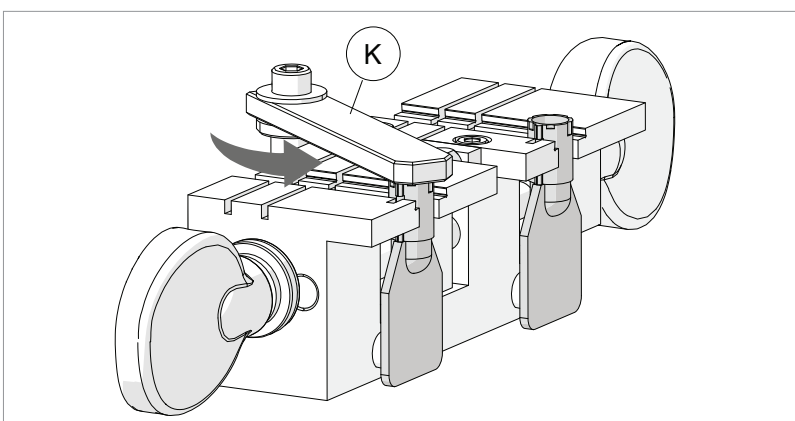


Fig. 34

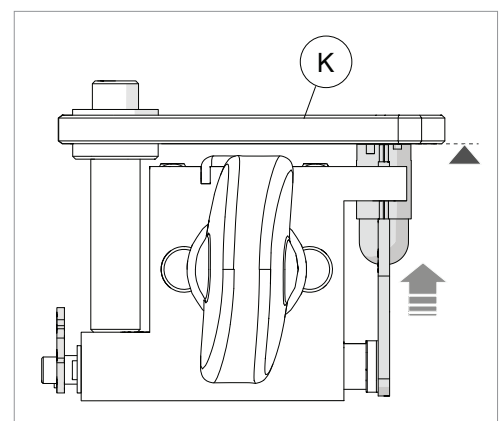


Fig. 35

Note: on the SWIFT 2.0 key-cutting machine the head aligning device for tubular keys can be excluded. Push the 2 devices and lock them with the respective levers on the back of the clamp.

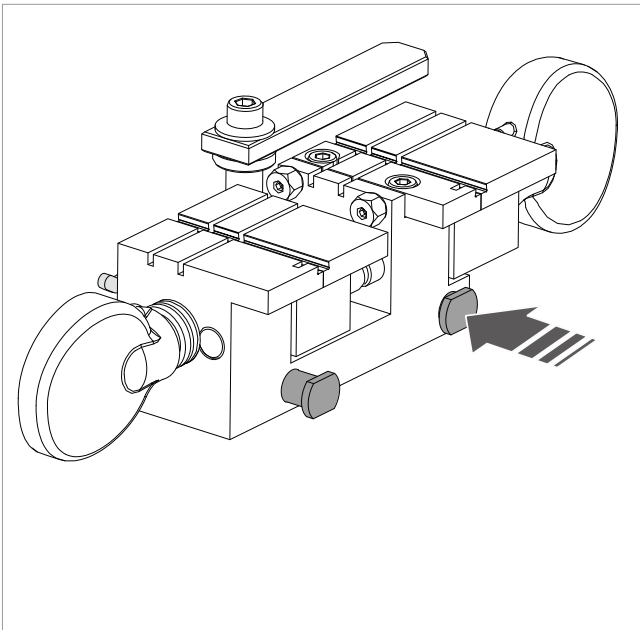


Fig. 36

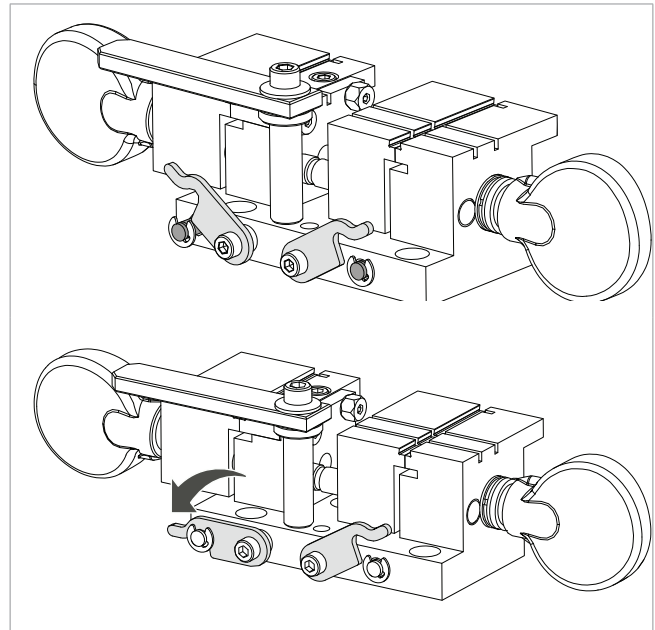


Fig. 37

9 MAINTENANCE

Although the SWIFT 2.0 key-cutting machine does not require special maintenance, it is advisable to check and, if necessary, replace the parts subject to wear, such as: the belt (Chap.9.1) and the lamp (Chap.9.2). Replacement is simple and can be carried out by the operator.

CLEANING: keep the carriage and clamps free of chippings from the cutting operations by cleaning with a dry brush.

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...).

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 unplug the machine prior to servicing.
- Follow all the instructions in the manual to the letter.
- Use original spare parts.

9.1 REPLACING THE BELT AND ADJUSTING TENSION

If the upper part of the machine vibrates, check the tension on the belt, as described below:

! Turn off the master switch (P) and unplug the machine.

- 1) Loosen the four screws (Y1) and remove the upper casing (Y) (Fig. 39).
- 2) Loosen (but do not remove) the 2 screws (Y2) securing the motor support.

a) tension:

- increase belt tension by pushing the motor towards the back of the machine.

b) replacement:

- loosen the belt by pushing the motor slightly towards the tracer point and cutting tool.
- remove the belt and replace.
- tighten the tension by pushing the motor towards the back of the machine.

- 3) Secure the motor support by tightening the 2 screws (Y2).

- 4) Replace the upper casing (Y) and secure with the four screws (Y1).

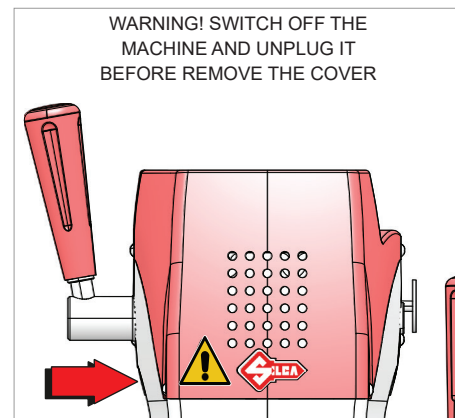


Fig. 38

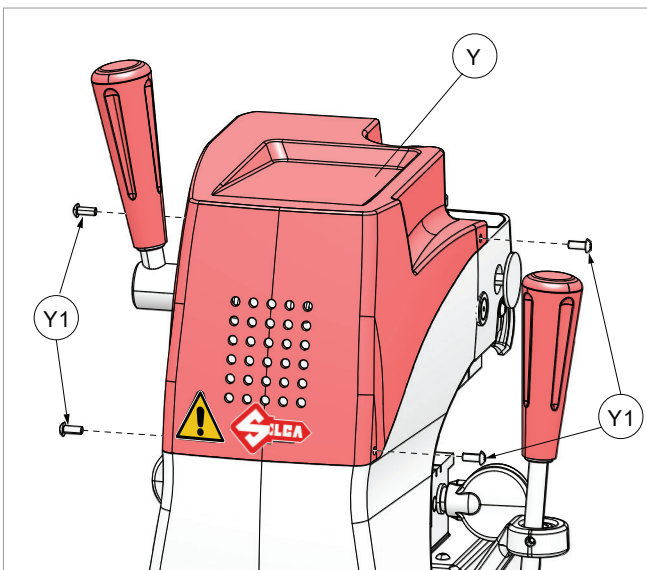


Fig. 39

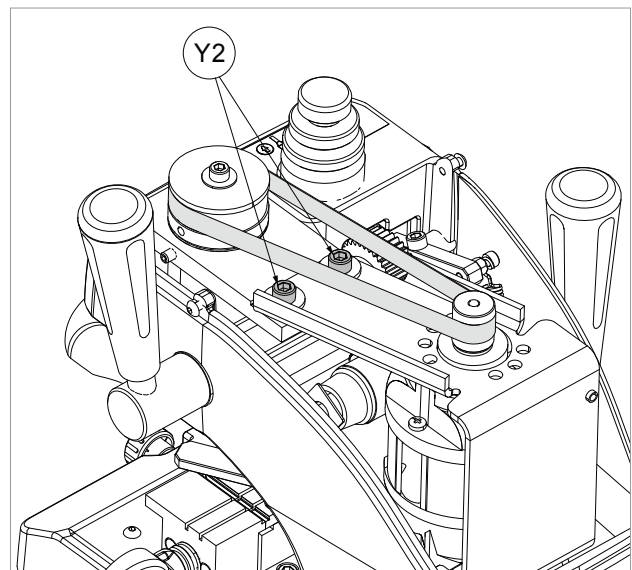


Fig. 40

9.2 REPLACING THE LAMP

To replace the lamp:

⚠ Turn off the master switch (P) and unplug the machine.

- 1) Loosen the four screws (Y1) and remove the upper casing (Y) (Fig. 39).
- 2) Carefully loosen the two screws (W1) and remove the lamp holder (W) (Fig. 41 - Fig. 42).
- 3) Unscrew and replace the light bulb.
- 4) Fit the lamp holder (W) and secure it with the two screws (W1).

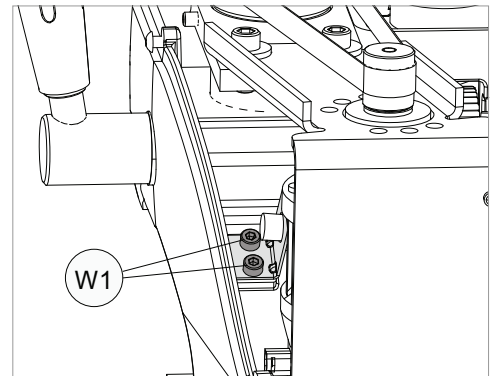


Fig. 41

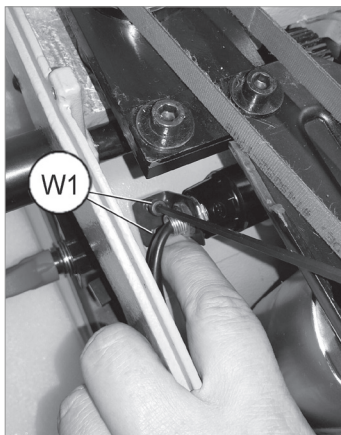


Fig. 42

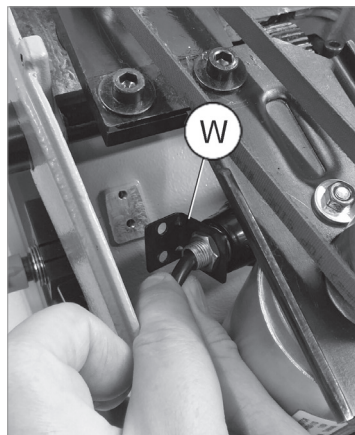


Fig. 43

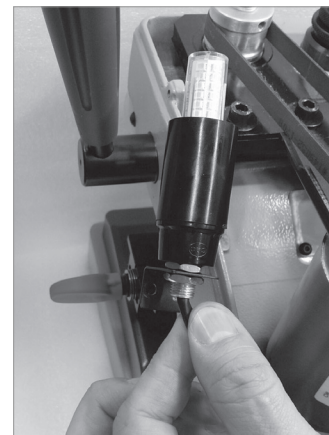


Fig. 44

9.3 CHECKING AND REPLACING THE FUSES

The fuses should always be checked with a continuity measuring instrument (tester, ohmmeter, multimeter etc.) as a visible check may not reveal an electrical fault. Fuses must always be replaced with others of the same type and with the same Amps, as shown in the manual. The SWIFT 2.0 key-cutting machine has two fuses:

4 Amps rapid for 220/230 Volt machines

8 Amps rapid for 110/120 Volt machines

placed in the inlet socket (R), to protect the key-cutting machine from sudden changes in voltage or short circuits. It is advisable to check the fuses if the machine is not activated by turning on the master switch. Proceed as follows:

⚠ Turn off the master switch (P) and unplug the machine.

Open the fuse box and remove the fuses (R1).

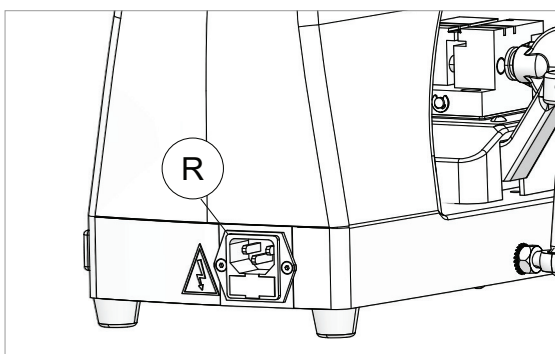


Fig. 45

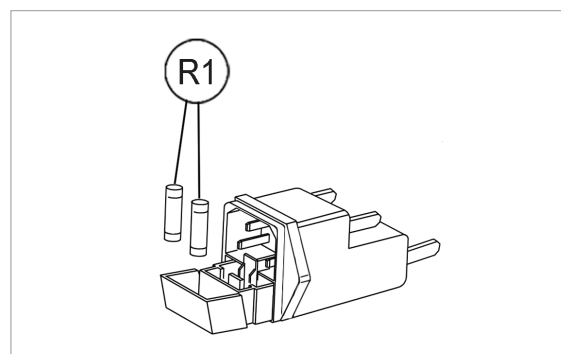


Fig. 46

9.4 ACCESS TO THE LOWER COMPARTMENT

⚠ Turn off the master switch (P) and unplug the machine.

- 1) Take care to turn the machine 1 onto its front very slowly.
- 2) Loosen the 2 feet (X1), 2 screws (X2), and remove the bottom plate (X) (Fig. 47).

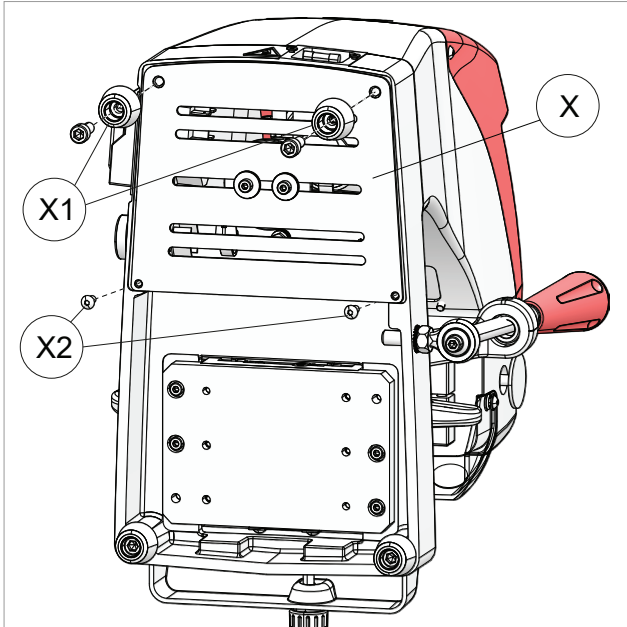


Fig. 47



Fig. 48

9.5 REPLACING SWITCHES: MASTER AND MOTOR ON

⚠ Turn off the master switch (P) and unplug the machine.

- 1) Access the lower compartment (see chap.9.4).
- 2) Disconnect the wires from the switch to be replaced, paying attention to their position.
- 3) Press the fixing “tabs” on the switch so that it can be pulled out.
- 4) Insert the new switch into the special seat.
- 5) Reconnect the connectors.
- 6) Replace and secure the bottom plate and return the key-cutting machine to the upright position.

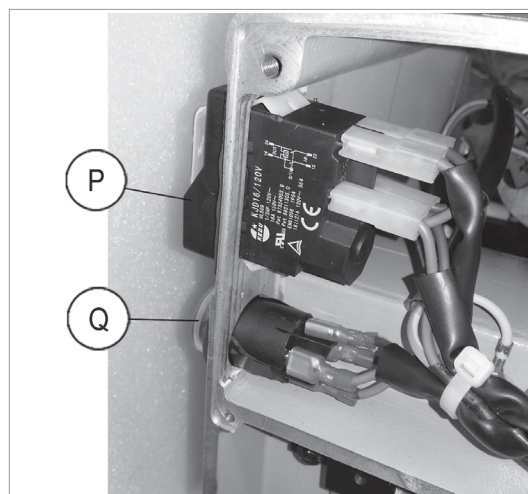


Fig. 49

9.6 REPLACING RIGHT-HAND CLAMP JAWS

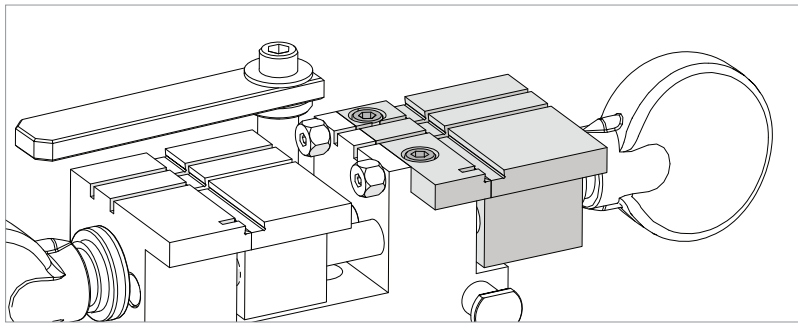


Fig. 50

! Make sure the motor start switch (Q) is OFF.

9.6.1 REPLACING THE FIXED JAW

- 1) Unscrew the knob (E1).
- 2) Loosen the 2 screws (B2) and remove the jaw.
- 3) Fit the new jaw up against the left-hand side so that it protrudes as much as possible towards the operator.
- 4) Close the knob (E1) without locking it so that the mobile jaw comes into contact with the fixed jaw.
- 5) Fit and lock tracer TE01 and cutter FE01 into their respective spindles.
- 6) Use the lever (C) to take the clamp carriage towards the machine body.
- 7) Use the lever (J) to lower the vertical carriage completely and then lock it with the knob (R).
- 8) Make sure the tools are in front of the fixed jaws, use the lever (C) to move the clamp carriage towards the operator until both tools (TE01 and FE01) are in contact with the two corresponding jaws.
- 9) Tighten the 2 screws (B2).

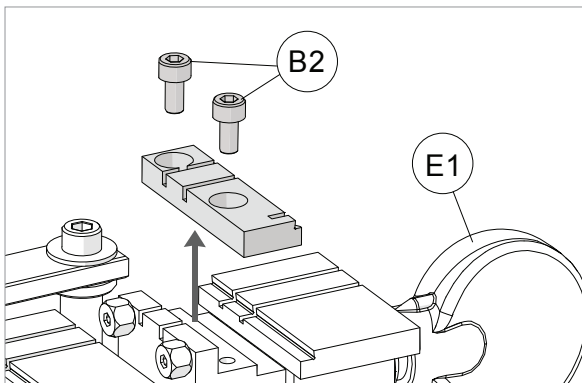


Fig. 51

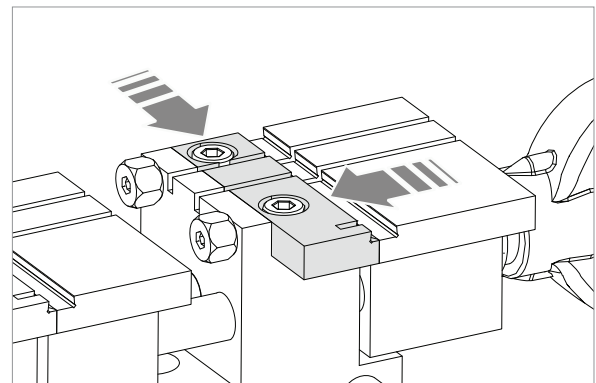


Fig. 52

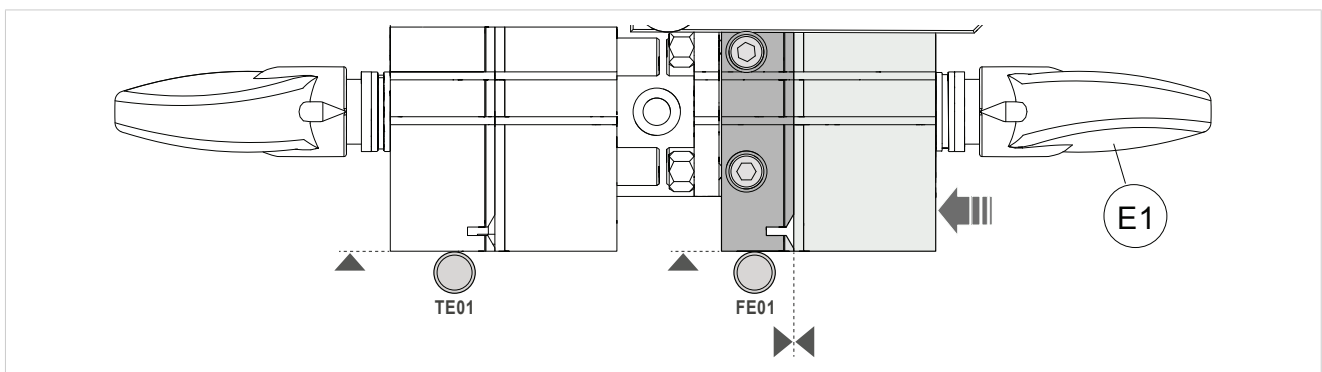


Fig. 53

9.6.2 REPLACING THE MOBILE JAW

- 1) Unscrew and remove knob (E1) and the thrust bearings.
- 2) Remove the jaw.
- 3) Fit the new jaw up against the right-hand side and align, also frontwise.
- 4) Insert the thrust bearings and screw down the knob (E1).

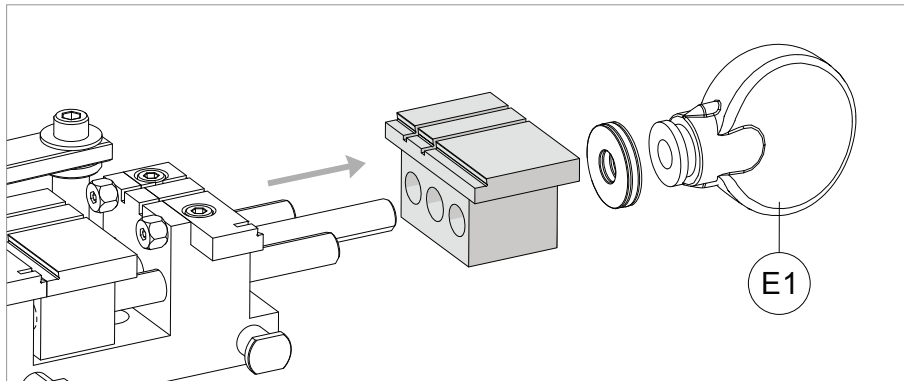


Fig. 54

10 DISPOSAL

For correct disposal please refer to current standards.

INFORMATION FOR USERS OF PROFESSIONAL EQUIPMENT



From “Actuation of Directive 2012/19/EU regarding Waste Electrical and Electronic Equipment (WEEE)”

The symbol of a crossed waste bin found on equipment or its packing indicates that at the end of the product's useful life it must be collected separately from other waste so that it can be properly treated and recycled.

In particular, separate collection of this professional equipment when no longer in use is organised and managed:

- a) directly by the user when the equipment was placed on the market before 31 December 2010 and the user personally decides to eliminate it without replacing it with new equivalent equipment designed for the same use;
- b) by the manufacturer, that is to say the subject which was the first to introduce and market new equipment that replaces previous equipment, when the user decides to eliminate equipment placed on the market before 31 December 2010 at the end of its useful life and replace it with an equivalent product designed for the same use. In this latter case the user may ask the manufacturer to collect the existing equipment;
- c) by the manufacturer, that is to say the subject which was the first to introduce and market new equipment that replaces previous equipment, if it was placed on the market after 31 December 2010;

Suitable separate collection for the purpose of forwarding discarded equipment for recycling, treatment or disposal in an environmentally friendly way helps to avoid possible negative effects on the environment and human health and encourages re-use and/or recycling of the materials making up the equipment.

The sanctions currently provided for by law shall apply to users who dispose of products in unauthorised ways.

11 AFTER-SALES SERVICE

Silca provides full service to purchasers of the SWIFT 2.0 key-cutting machine.

To ensure complete safety for the operator and machine, any job not specified in this manual should be carried out by the manufacturer.

Silca undertakes to make consumables, optional items and spare parts available for the limited time defined in its product obsolescence policy.

11.1 HOW TO REQUEST SERVICE

The limited warranty period for the SWIFT 2.0 key-cutting machine ensures free repairs or replacements of faulty parts within 24 months of purchase. All other service calls must be arranged by the customer with Silca or its Service Centres.



EU 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

SWIFT 2.0

complies with the requirements of the following European Directives:

European Union **DIRECTIVE 2006/42/EC** (Machinery)
European Union **DIRECTIVE 2014/30/EU** (Electromagnetic Compatibility)
European Union **DIRECTIVE 2014/35/EU** (Low Voltage)
European Union **DIRECTIVE 2011/65/EU** (RoHS3)
European Union **DIRECTIVE 2012/19/EU** (WEEE)

| 18 |

and with the following Standards:

EN ISO 12100:2010
IEC 60204-1:2016
EN 61000-3-2:2014
EN 61000-3-3:2013

EN 60034-1:2010
EN 60204-1:2006 + A1:2009

Silca S.p.A. R&D Division is authorized to create a Technical File.



VITTORIO VENETO, 27/06/2024

CEO, Gazzola Michele

SILCA S.p.A.
Via Podgora, 20 (Z.I.)
31029 Vittorio Veneto (TV) Italy

A Member of the Kaba Group

Tel. +39 0438 9136 Fax +39 0438 913800 www.silca.it info@silca.it
P. IVA C.F. e Reg. Impr. IT03286730266 REA TV 258111
Cap. Soc. € 10.000.000 i.v. Export TV 038851

Società soggetta a direzione e coordinamento di Kaba Holding AG, con sede in Rümliang (Svizzera), Hofwisenstrasse 24, ai sensi e per gli effetti degli articoli 2497 - 2497sexies del Codice Civile.





UKCA DECLARATION OF MACHINE COMPLIANCE

**SILCA S.p.A. - VIA PODGORA 20 (Z.I.)
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TEL. 0438 9136 - FAX. 0438 913800**

Declares under its own responsibility that the **Key-Cutting Machine** model

SWIFT 2.0

complies with the requirements of the following Statutory Instruments:

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
Electrical Equipment (Safety) Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (As amended)
The Waste Electrical and Electronic Equipment Regulations 2013 (As amended)

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and with the following Standards:

BS EN ISO 12100:2010
BS IEC 60204-1:2016
BS EN 61000-3-2:2014
BS EN 61000-3-3:2013

BS EN 60034-1:2010
BS EN 60204-1:2006 + A1:2009

Silca S.p.A. R&D Division is authorized to create a Technical File.

**UK
CA**

VITTORIO VENETO, 27/06/2024

CEO, Gazzola Michele

SILCA S.p.A.
Via Podgora, 20 (Z.I.)
31029 Vittorio Veneto (TV) Italy

A Member of the Kaba Group

Tel. +39 0438 9136 Fax +39 0438 913800 www.silca.it info@silca.it
P. IVA C.F. e Reg. Impr. IT03286730266 REA TV 258111
Cap. Soc. € 10.000.000 i.v. Export TV 038851

Società soggetta a direzione e coordinamento di Kaba Holding AG, con sede in Rümlang (Svizzera), Hofwisenstrasse 24, ai sensi e per gli effetti degli articoli 2497 - 2497sexies del Codice Civile.





**SERVICE CENTERS - CENTRI DI ASSISTENZA - KUNDENDIENSTZENTREN - CENTRES D'ASSISTANCE
CENTROS DE ASISTENCIA - CENTROS DE ASSISTÊNCIA - BIJSTANDSCENTRA**

COUNTRY	COMPANY	ADDRESS	CITY	AREA CODE	PHONE	FAX e-mail
Algeria	Sarl Maghreb Clés	Coopérative Ettadhamoune Local 21/A	Badjarah Alger	16209	+213-23-760708	+213-23-760710 asmaghreb_cle@yahoo.fr
Argentina	Distribuidora Frappampino S.r.l.	La Rioja, 483	Cordoba	5000	+54-351-4216368	+54-351-4229003 info@frappampino.com.ar
Australia	Locksmiths' Supply Co. Pty Ltd.	140/158 Dryburgh St.	Melbourne	VIC 3051	+61-39-3297222	+61-39-3296692 lsc@lsc.com.au
Austria	Erwe Gmbh	Feldgasse, 16	Feldkirchen	A-9560	+43-42762816	firma@erwe.at
Belgium	Colman Leder NV	Zwaluwbeekstraat 13	Kruikebeke	B-9150	+32-3-2530899	info@colmanleder.be
Belgium	H. Cillekens B.V.	Rue de l'Atelier 4	Tubize	1480	+32-23831620	+32-23831622 info@hcillekens.be
Brazil	Kaba Do Brasil Ltda	Rua Guilherme Asbahr Neto 510	São Paulo	04646-001	+55-11-5545-4520	+55-11-5545-4515 silca@kabadoBrasil.com.br
Bulgaria	Intesa S.r.l.	Kukush 1	Sofia	1309	+359-28211425	+359-28211347 info@intesa.bg
Burkina Faso Ivory Coast	Diallo Mamoudou	Av.Pont Kadiogo - Face Siege Fespaco	Ouagadougou 01	5953	+226-710448	+226-70224244 silcacolopafrique@gmail.com
Cameroun	C.S.C. Cameroun Service Clés & Cord.	Rue Dicka Mpondo 65	Douala	5148	+237 677 408 575	+237 334 309 88 camservicescls@live.fr
Colombia	Silca South America S.A.	Km 1.5 Via Briceño-Zipaquira Parque Ind.Trafalgar	Bodega 3,Tocancipa, Cundinamarca		+57-1-7366480	+57-1-7366490 servicio.cliente.co@kaba.com
Croatia	Ferrotechna d.o.o.	Japodska 66C	Pula	52100	+385-52-502609	+385-52-503-529 ferrotechna@pu.t-com.hr
Cyprus	G.H. Yacoubian Ltd.	74/B, Regaena Street	Nicosia		+357-22-663525	+357-22-669009 Peter Yacoubian peter@ghycy.com
Czech Republic	H&B Group s.r.o.	Zatecká, 8	Plzen	30148	+420-377-225903	+420-377-225904 info@hbgroup.cz
Denmark	Agenturcentret a.s.	Brydehusvej 20	Ballerup	2750	+45-70111211	+45-70111221 agentur@agenturcentret.dk
Egypt	Mohammed Fouad Import & Export	Mansoura Road Sinblawein	Dakahlia		+20-1114444086	dr_nour_hamada@yahoo.com
Estonia	OU Paavo Rooba Votmeari	J. Kunderi 36-1A	Tallin	10121	+372 55511806	+372 660516 roobakey@gmail.com
Finland	Hardware Group Finland Oy. (Hgf Ltd)	Luostarintportti 5	Kirkkonummi	02400	+358-9-2219490	+358-9-2962186 asiakaspalvelu@hgf.fi
France	SILCA S.A.S.	12, Rue de Rouen B.P.37	Z.I. Limay Porcheville	78440	+33-1-30983500	+33-1-30983501 info@silca.fr
Germany	SILCA GmbH	Siemensstrasse, 33	Velbert	42551	+49-2051-2710	+49-2051-271172 info@silca.de
Greece	Chrisikos K. Ioannhs	Pipsou Street 7	Thessalonik	54627	+30-2310-510336	+30-2310-521651 info@chrisikos.gr
Greece	F. Sotiropoulos & Son O.E.	Patission Street 110	Athens	11257	+30-210-8234009	+30-210-8238480 kostasot@otenet.gr
Greece	GEMKA-Karidis G. & Sons OE	Lykoirgoy Street 14-16	Athens	10552	+30-210-3243000	+30-210-3249571 info@gmka.gr
Greece	Raptaki Bros OE	Andrea Papandreou St. 25	Iraklion - Crete	71305	+30-2811-810000 +30-2811-810001	+30-2811-810002 info@raptakis.gr
Greece	Koutonidou G. Marina Gesthimani	Alexandrou Papanastasiou 79	Thessaloniki	55453	+30-2310-907787	+30-2310-904696
Hong Kong	Keysystems Limited	Unit A 12/F, Hung Mou Industrial Building	Hong Kong		+852-2375 6110	+852-2406 2602 kkong@aub.com.hk
Hungary	Dormakaba Zrt	Óradna utca 3/B	Budapest	1044	+36-1-329141400	+36-1-3290692 janos.traupert@dormakaba.com
Iceland	Vélar & Verkfæri ehf	Skútvogour 1C	Reykjavik	104	+354-550-8500	+354-550-8501 bjorn@w.is
India	Minda Silca Engineering Pvt. Ltd.	Plot No. 37, Toy City	Greater Noida	201308	+91-9871397630 +91-9871397631	+91-120-2351301 info@mindsilca.in
Iran	Klidavarshayan co.	No. 73 Stakhr. St - Emam Khomeini Ave	Tehran		+98 216 6702757	+98 216 735649 klidavar@yahoo.com
Iraq	Talal Munir Al Alaly for Locksmithing	Al Karada Dakeh / Neer Al Rahibat Hospital	Baghdad		+96 4790 1313083	talal_munir@yahoo.com
Israel	A.M.C.I. Locksmith Supply Ltd.	22 Efal Street Kiryat Aryeh	Petah Tikva	49130	+972-3-9230331	+972-3-9230332 amci@bezeqint.net
Italy	SILCA S.p.A.	Via Podgora, 20 (Z.I.)	Vittorio Veneto - TV	31029	+39-0438-9136	+39-0438-913800 silca@silca.it
Japan	Clover Co. Ltd	1-2-40 Haradanaka, Toyonaka-shi	Osaka	561-0807	+81-6-68442111	+81-6-68441147 info@cloverkey.co.jp
Japan	Lockman Japan	14 - 6 Kamoiche - Shinmachi	Kagoshima City		+81-99-286-0069	info@lockman.co.jp
Kenya	MPPS	Piranha Centre - Mombasa Road P.O. Box 31347	Nairobi		+254-708565929	info@mpps.co.ke
Latvia	Solo F. Ltd.	105-1A A. Caka Street	Riga	LV-1011	+371-67278359	+371-67876901 solof.office@gmail.com

COUNTRY	COMPANY	ADDRESS	CITY	AREA CODE	PHONE	FAX e-mail
Libya	Jder Company for Importing Locksmithing Equipment & Accessories Ltd	No:02 Al Furnaj Roundabout	Tripoli		+218-925078942 +218-913233898	aljaderkeys99@yahoo.com abade_72@yahoo.com
Kosovo	Boni Keys	R.R.Saraqeve 82/a	Prizren	20000	+381 29 244 244	+381 29 244 244 bonikey@silca-ks.com
Lithuania	UAB Leola	Pylimo Str. 37-8	Vilnius	2001	+370 526 08822	+370 526 08725 info@raktas.lt
Lithuania	UAB Baltkey	Geliu G. 4-22	Vilnius	08417	+370 521 21387	+370 521 26565 info@raktine.lt
Lebanon	Mouawad Books & Stationary Sarl.	Mouawad Str. Mouawad Center, 60094 Jal el Dib	Beyrouth		+961 4 711202	+961-4-11206 hicham.mouawad@mouawadmbs.com
Macedonia	Panevski & Sinovi	Llidenska , 11	Kumanovo	1300	+389 31 411545	+389-31-412411 panevski@mt.net.mk
Malta	Unimark Ltd.	Zerafa Street 32	HMR 03 Marsa		+356 21 231540	+356-21-231540 Louis Pace unimarkltd@gmail.com
Mexico	Corporacion Cerrajera Alba Sa De Cv	Circuito Gustavo BAZ, 16 Atizapan de Zaragoza	Mexico	52966	+52-555-3667200	+52-553-667291 info@kaba-mexico.com
Montenegro	S.Z.R Panter	Zanatski Centar, Topliski Put Br.2	Budva	85310	+233-456-309	
Netherlands	H. Cillekens B.V.	Metaalweg, 4	JB Roermond	6045	+31-475-325147	+31-475-323640 info@hcillekens.nl
Netherlands	Steenhauer B.V.	Moezel 23	Den Haag	2491 CV	+31-70-3177262	+31-70-3177333 info@steenhauer.nl
New Zealand	Lsc NZ Limited	Poland Road 32	Glenfield, Auckland	0627	+64-94445117	+64-94445119 info@lscnz.co.nz
Norway	Prodib Ab	Montorgat 16	Eskilstuna	632 29	+46-16-168000	+46-16-145590 prodib@prodib.se
Poland	Dar-Mar	ul. Napoleona, 17	Kobylka	05-230	+48-22-7710118	+48-22-7710118 dar-mar@dar-mar.pl
Poland	Z.P.U.H. Expres Wojcieck Kowalczyk	32-447 Siepraw	Siepraw	795	+48-1227-46365	+48-1227-46290 expres@expres.pl
Poland	Kopra Sp. Z O.O.	Ul. Prezesmyckiego 19	Wroclaw	51-151	+48-713338790	+48-713338793
Portugal	Casa Das Chaves Da Falagueira Ltda	Estrada Da Falagueira 5B	Amadora	2701-852	+351-214936430	+351-214912403 ch.falagueira@mail.telepac.pt
Romania	Silkeys & Machines Distribution Srl	Badea Cartan Street 36, 2nd District	Bucharest	200064	+40-213118602	+40-212120155 main_office@silkeys.ro
Russia	Ghidini O.O.O.	Borisovskie Prudi Street, DOM 1	Moscow	109078	+7 495 3935164 / 925 3881111	+7 499 3240877 silca@silca.su
Saudi Arabia	Keys Solutions Est. for Trading	Po box 4703	Jeddah	21465	+966-12-6422588	+966-12-6447238 khalid62100@gmail.com
Senegal	Ets Digne & Freres Import Export	Rue Marsat X Faidherbe Prolongee	Dakar		+221-70-936-4727	+221-33-853-2432 serignematar.127@gmail.com
Serbia	Silkon D.O.O.	Stevana Dukica 15	Belgrade	11000	+381-11-2080200 +381-11-2780736	+381-11-2080201 info@silkon.rs
Serbia	Intesa	Belarica 56 Nova12	Batajmica-Belgrade	11273	+381-11-7486880	+381-11-17870307 ljupkaracic@intesa.rs
Singapore	Soxxi Premium Master	37, Jalan Pemimpin, #01-07 Mapex	Singapore	577177	+65-6665-1605	Mr Kelvin Teo kelvin@soxxi.com
Slovakia	H&B Slovakia s.r.o.	Ovsistske Nam. 1	Bratislava	85104	+421-2-6252-0032 +421-2-6252-0033	+421-2-6252-0034 info@hbgroup.sk
Slovenia	Radikovic d.o.o.	Kebetova Ulica 8	Kranj	4000	+386-41-617326	franjo@radikovic.si
South Africa	Keytek	27 Jones Road, Jet Park	Johannesburg	1645	+27 100230109	info@keytek.co.za
Spain	Silca Key Systems S.A.	C/Santander 73/A	Barcelona	08020	+34-93-4981400	+34-93-2788004 silca@silca.es
Sweden	Prodib Ab	Montorgat 16	Eskilstuna	632 29	+46-16-168000	+46-16-145590 prodib@prodib.se
Switzerland	Robert Rieffel Ag	Widenholzstrasse 8	Wallisellen	8304	+41-44-8773333	+41-44-8773322 info@rieffel.ch
Tunisia	GSR Groupe Service Rapide	Rue des parfums, Cellule Hached	Nabeul	8000	+216-72-232587	+216-72-232587 gsrnabeul@hotmail.fr
Tunisia	Sogeclef	63 Rue Mongi Slim Galerie El Medina	Tunis		+216 71345487 +216 98340751	+216 71257672 sogeclef@yahoo.fr
Turkey	Esan Elektronik Sanayi Tic. Ltd.	Ataturk Bulvari Deposite Is Mar-kezi, A1 Blok Kat 4 No:41	Başakşehir - Istanbul		+90 212 486 21 34	levent@al-pron.com
U.A.E.	Sadeem Building Material CO	P.O. Box 32075	Dubai		+971 4 2682400	+971-4-2622778 m.meeran@sadeemgroup.com
Ukraine	Key-Smt	Str Marshela Malinovskogo 7A	Kiyv		+38 066 118-05-96	reshetovsmt@mail.ru
United Kingdom	Silca Ltd.	Unit 6 Lloyds Court Manor Royal	Crawley	RH10 9QU	+44-1293-531134	+44-1293-531108 sales@silcald.co.uk
U.S.A.	Kaba Ilco Corp.	400 Jeffreys Road, P.O. Box 2627	Rocky Mount	NC 27804	+1-252-4463321	+1-252-4464702 custsvc@irm.kaba.com
Venezuela	La Casa del Cerrajero C.A.	Av. Principal de Maripérez	Caracas		+58-212-793-0083	+58-212-781-8692 cerrajero@cantv.net

Worldwide contacts



SILCA S.p.A.
Via Podgora, 20 (Z.I.)
31029 VITTORIO VENETO (TV)
Phone: +39 0438 9136
Fax +39 0438 913800
E-mail: silca@silca.it
www.silca.biz

United Kingdom

SILCA Ltd.
Unit 6 Lloyds Court - Manor Royal
CRAWLEY RH10 9QU
Phone: +44 1293 531134
Fax +44 1293 531108
E-mail: sales@silcald.co.uk
www.silcald.co.uk

France

SILCA S.A.S.
12, Rue de Rouen
Z.I. de Limay - Porcheville
78440 PORCHEVILLE
Phone: +33 1 30983500
Fax +33 1 30983501
E-mail: info@silca.fr
www.silca.fr

Germany

SILCA GmbH
Siemensstrasse, 33
42551 VELBERT
Phone: +49 2051 2710
Fax +49 2051 271172
E-mail: info@silca.de
www.silca.de

Spain

SILCA KEY SYSTEMS S.A.
C/Santander 73A
08020 BARCELONA
Phone: +34 93 4981400
Fax +34 93 2788004
E-mail: silca@silca.es
www.silca.es

The Netherlands

H. CILLEKENS B.V.
Metaalweg, 4
6045 JB ROERMOND
Phone: +31 475 325147
Fax +31 475 323640
E-mail: info@hcillekens.nl
www.hcillekens.nl

India

Minda Silca Engineering Pvt. Ltd.
Plot no.37, Toy City,
GREATER NOIDA (U.P.) - 201308
Phone: +91 9871397630/31
Fax: +91 120 2351301
E-mail: info@mindasilca.in
www.mindasilca.in

North America

U.S.A., Canada, Caribbean Islands

KABA Ilco Corp.
400 Jeffreys Road
Rocky Mount, NC 27804 USA
Phone: 1 800 334 1381 / 1 252 446 3321
Fax: 1 252 446 4702
E-mail: info@irm.kaba.com
www.ilco.us

Central America

Mexico, Guatemala, Belize, El Salvador, Honduras, Nicaragua, Costa Rica, Panama

Corporación Cerraiera Alba S.A. de C.V.
Kaba Mexico
Prolongación avenida independencia 14, Bodega 5,
Col.Los reyes, Tultitlán, Estado de México C.P. 54915
Phone: 01 55 5366 7200
E-mail: informacion-mexico@kaba.com
www.kabamexico.com

Brazil

KABA DO BRASIL Ltda
Rua Guilherme Asbahr Neto, 510
São Paulo, SP 04646-001
Phone: +55 11 55454520 / 29
E-mail: silca@kabadobrasil.com.br
www.silcachaves.com.br

Colombia

SILCA SOUTH AMERICA S.A.
Km 1.5 Via Briceño-Zipaquira
Parque Ind. Trafalgar Bodega 3
Tocancipa-Cundinamarca
Phone: +57 1 7366480
Fax +57 1 7366490
www.flexonsilca.co