

# Main Features



- 1 Innovative and practical design.
- 2 Ergonomic.
- 3 Compact dimensions.
- 4 Simple in use.
- 5 Safe:
  - 5a emergency stop push button conveniently situated on machine front.
  - 5b transparent safety shield: protects the operator from coming into contact with moving parts; the microswitch automatically deactivates the cutter and carriage movements when the shield is raised.

- 11 Four-sided clamps for housing a wide range of keys with different features.
- 12 Automatic loader that operates without the need for connection to the compressed air supply.



- 6 buzzer with different sounds to indicate the end of the key cutting cycle (=key copy ready) and to warn of alarm status (=machine stopped, inspection needed).
- 7 Keypad with retro-illuminated display: ergonomic keypad situated on the front; 4-row display with 20 characters per row, retro-illuminated for excellent visibility.

- 8 Special devices to safeguard the internal parts of the machine.
- 9 Neon lamp to illuminate the work area.

- 10 Fast key-cutting times.
- 11 Practical side trays to collect swarf.

- 12 Maximum precision and quality key cutting.
- 13 Automatic counting function for cut keys, with increase at the end of each cutting cycle.

- 14 Cutting tolerance on copy for spaces and depths is +/- 0.05 mm.
- 15 Semi-automatic gauging function for both the standard clamp and the automatic clamp.

- 16 Key reading by means of an electronic optic device:

- 16a absolute precision and reliability in reading the key cuts.
- 16b original key is protected as there is no contact with it.



**SILCA S.p.A.**  
Via Podgora, 20 (Z.I.)  
31029 Vittorio Veneto (TV)  
Tel +39 0438 9136  
Fax +39 0438 913800  
E-mail: silca@silca.it  
www.silca.it

In the United Kingdom  
**Silca Ltd**  
Kimpton Road - Sutton  
Surrey SM3 9QP  
Tel. +44 208 6416515  
Fax +44 208 6441181  
E-mail: sales@silcald.co.uk  
www.silcald.co.uk

In Germany  
**Silca GmbH**  
Siemensstrasse, 33  
42551 Velbert  
Tel. +49 2051 2710  
Fax +49 2051 271172  
E-mail: info@silca.de  
www.silca.de

In France  
**Silca S.A.**  
B.P. 37 - 12, rue de Rouen  
Z.I. de Porcheville  
78440 Porcheville  
Tel. +33 1 30983500  
Fax +33 1 30983501  
E-mail: info@silca.fr  
www.silca.fr

In Spain  
**Silca Key Systems S.A.**  
C/Santander 73A  
08020 Barcelona  
Tel. +34 93 4981400  
Fax +34 93 2788004  
E-mail: silca@silca.es  
www.silca.es



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## Technical Data



<b>Power supply:</b>	230V-50Hz
<b>Maximum absorbed power:</b>	230V: 2 Amp. 250 Watt
<b>Cutter motor:</b>	single phase, 1 speed
<b>Cutter:</b>	in high speed steel (HSS)
<b>Tool speed:</b>	50Hz: 1150 rpm
<b>Movements:</b>	on 2 axes with ball screws driven by step motors on rectified roller guides
<b>Standard clamp:</b>	universal 4 sided for flat and vehicle keys, and cruciform keys
<b>Automatic clamp (for Leonardo with loader unit only)</b>	Automatic clamp for flat keys, for version with loader unit only
<b>Runs:</b>	X axis: 57 mm Y axis Y: 32 mm
<b>Dimensions:</b>	width: 395 mm (Leonardo con vaschetta raccogli chiavi 455 mm) depth: 535 mm height: 360 mm (590 mm with safety shield up)
<b>Mass:</b>	Leonardo: Kg. 43 Leonardo with Loader Unit: Kg. 50

## Optional Accessories

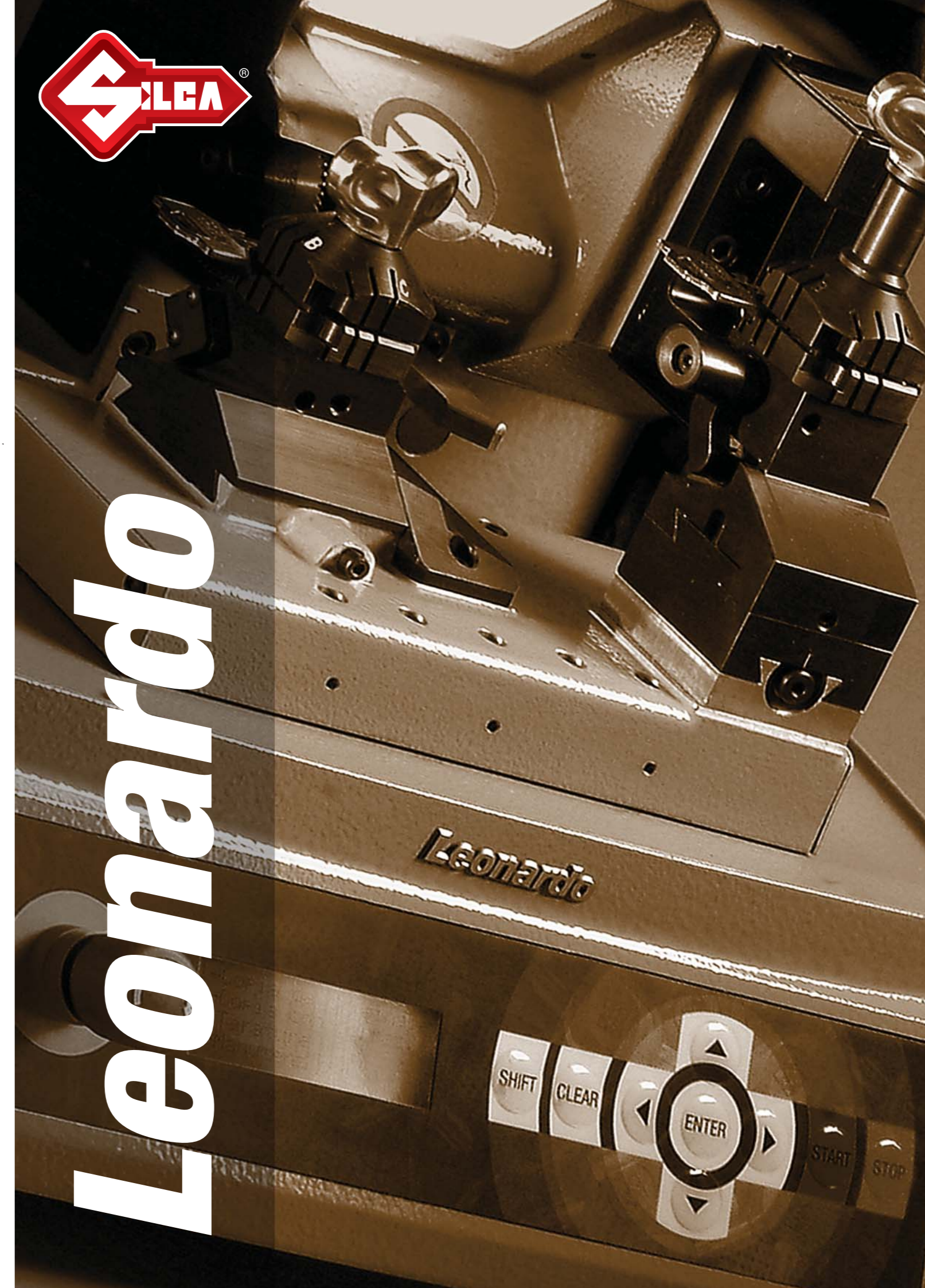
Hard metal cutter

The continuous improvement of the quality of products may cause changes to what described within this leaflet without prior notice

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# Leonardo







Leonardo machine has been built to CE (European Community) safety standards.

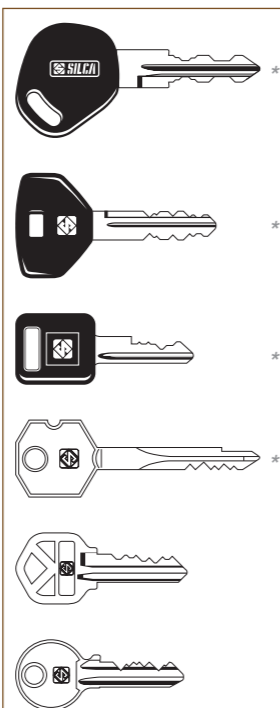
# Leonardo

**Electronic automatic key-cutting machine for flat cylinder and vehicle keys, and cruciform keys\*.**

Leonardo is the new Silca electronic automatic key-cutting machine for flat cylinder and vehicle keys, and cruciform keys.

Provided with a special incorporated loader, it represents the ideal solution for professional Key Cutters who need to copy large quantities of keys or sets of keys for large buildings.

Leonardo combines precision and ease of use and offers high quality results due to its innovative functions and laser technology.



\* Keys to be cut only with the 4-sided clamp provided.

## Cutting Method

**Cutting of copies**  
**Functions of:**

■ **Copy from an original**

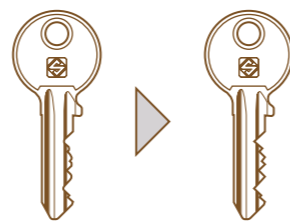
For simultaneous reading of original keys and key cutting (approx. 25 sec. for flat keys with 5 pins).

Thanks to the Optical Reader Leonardo Machine reads the key profile and cuts the key to be duplicated simultaneously.



■ **Copy with adjustments**

Used to make manual adjustments to very worn keys or to eliminate imperfections in the cutting depth and/or pitch of the original key.



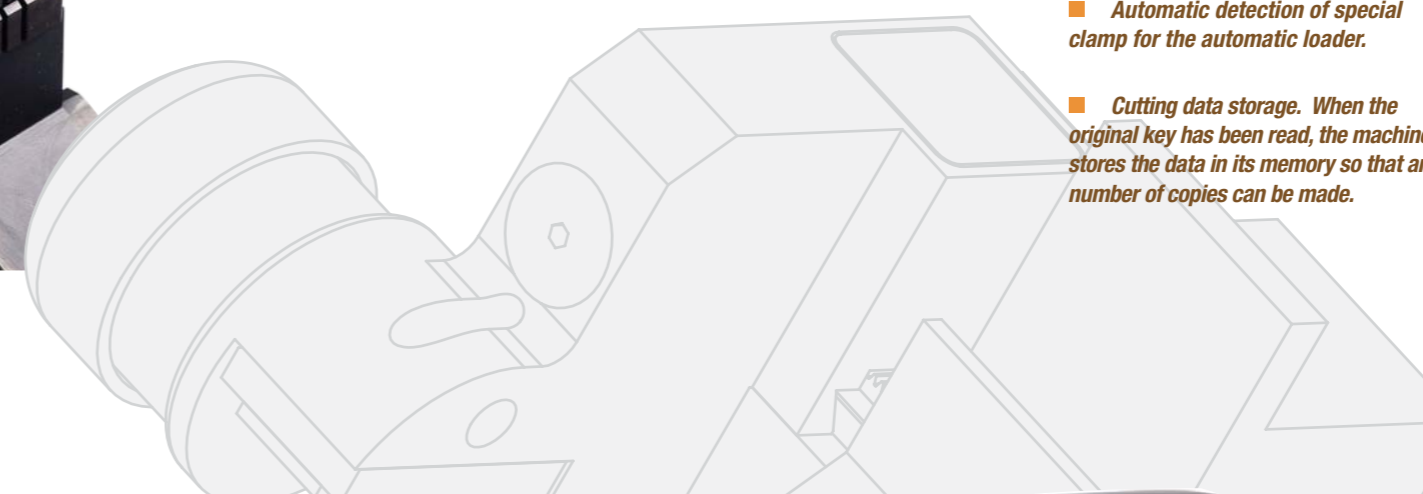
Depth adjustment



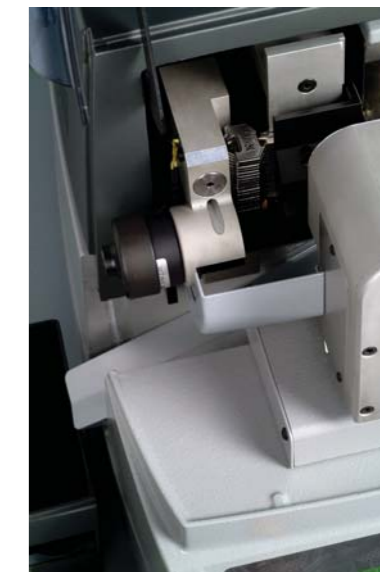
Spaces adjustment



\* Excluding time needed by the Operator to set up adjustments.



- Operation without compressed air.
- Key stacker for 20 to 30 keys (max.), adjustable according to key dimensions and thickness.
- Automatic removal device for single keys.
- Device to ensure key stop position in the special clamp.
- Special powered clamp to automatically secure the key to be cut; interchangeable with the basic four-sided clamp.
- Automatic detection of special clamp for the automatic loader.
- Cutting data storage. When the original key has been read, the machine stores the data in its memory so that any number of copies can be made.



■ Mechanical slide for automatic collection of the cut keys in a special box provided.

**Leonardo guarantees simply ingenious key cutting**



Leonardo