



Mechanical Key Cutting Machines

Vers. 4

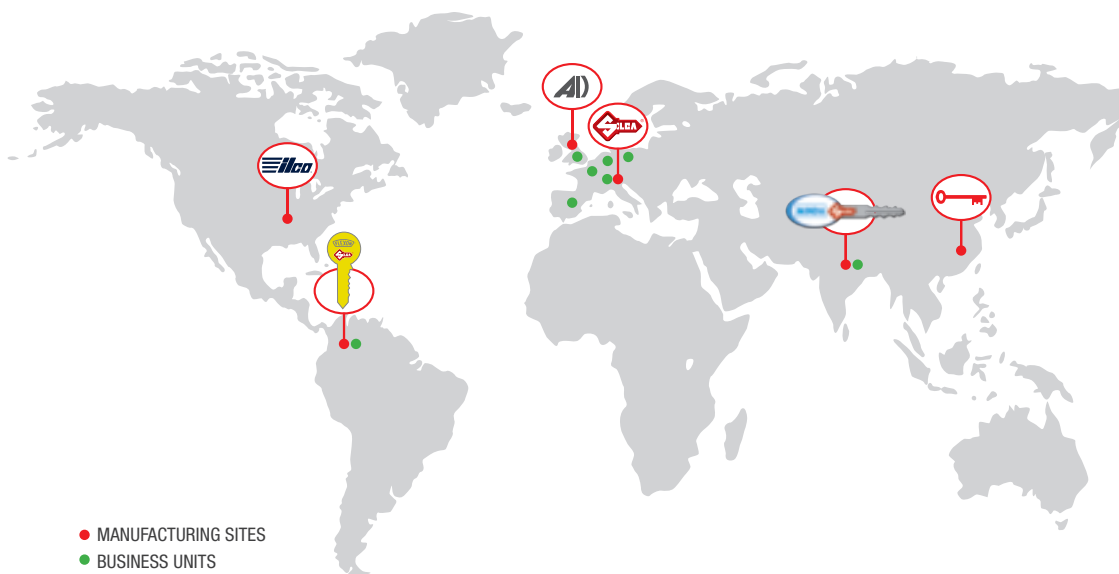


#1 IN THE WORLD

KEY SYSTEMS SEGMENT

Since the beginning, Silca has conceived the business of key duplication as a comprehensive system, that flows from key blank to key cutting machine manufacturing, and extends to the engineering of customized products and to the development of state-of-the-art solutions for the automotive industry.

Silca boasts an internationally widespread presence, consisting of 8 business units, 6 manufacturing sites, and a network of over 150 specialized distributors all over the world.



QUALITY AND CERTIFICATIONS

Silca Quality System, which has been strengthened over time, complies with international standards ISO 9001:2008 and ISO/TS 16949:2009 (Automotive Keys), guaranteeing maximum attention to:

- prevention of non-conformities;
- improvement of the efficacy and efficiency of production processes;
- adherence to the results expected by both Customers and Manufacturers of the Automotive Industry.

Silca Environmental Management System (EMS) conforms with the UNI EN ISO14001:04 standards, ensuring that the company respects the environment; promotes practices that safeguard health and safety of all employees; is committed to constantly improving its manufacturing processes.



The CE mark certifies that all Silca products meet the health, safety and environmental requirements set by EU directives.

WIDE RANGE OF ACCESSORIES

A wide range of optional accessories has been designed and manufactured to enlarge the capabilities of mechanical and electronic key cutting machines.

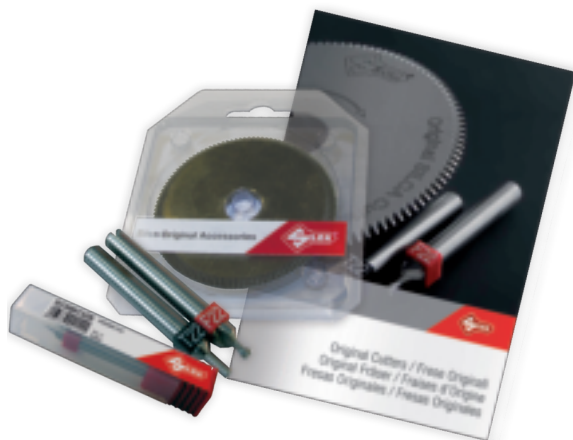
Silca offers a series of original tracer points, cutters, clamps, and adapters developed for adjusting perfectly to Silca key machines and for duplicating any key type, thus responding to the needs of any customer.



ORIGINAL SPARE PARTS

In order not to compromise the performances of the key cutting machines, it is recommended using exclusively Silca original spare parts and accessories.

Manufactured with high-quality materials, assembled with utmost care and precision, accurately tested before being provided to the customer, only Silca spare parts and accessories guarantee comfort of use and reliability over time.



SILCA SOFTWARE

Silca designs and develops in-house all the software programs applied to its key cutting machines and electronic devices. Silca software ensures that the performances of the customer's working tools are optimized and grants access to one of the most extensive key database in the world, updated on a daily basis with the latest news from the market and continuously enriched with new functions.



ADVANCED DIAGNOSTICS SOFTWARE

The software programs developed by Advanced Diagnostics allow to enhance the functionalities of AD programming devices and simplify their operating procedures, ensuring at the same time to be always up-to-date with the latest innovations tuned by major car manufacturers worldwide. The functions provided include: the elimination of manual procedures that might generate errors, the optimization of programming processes of vehicle keys, the reading of pin and security codes.



SILCA EKC

The Silca Electronic Key Catalogue is the ideal application for searching keys and managing customized ranges. Silca EKC grants the possibility to:

- consult one of the most complete key database in the world, both in terms of articles and information provided;
 - create and print out customized catalogues and key tags;
 - search comparative keys starting from the part number of a competitor.
- The Silca Electronic Key Catalogue has been optimized for mobile devices and smartphones.

Registering to EKC is easy and free:
ekc.silca.biz



VKF PRO

Vehicle Key Finder Pro is an application designed to simplify the search of automotive keys starting from either a Silca key reference or the make and model of a vehicle.

VKF Pro provides all the necessary information to duplicate a vehicle key, indicating the right transponder and part number to use, and suggesting the most adequate tools for copying both the electronic and the mechanical components of the key.

Find the Silca key for your vehicle:

ekc.silca.biz/car-keys



MYSILCA APP

With MySilca App all the information and the expertise from Silca will be at hand, anytime, anywhere.

Optimized for tablet and smartphone, MySilca has been developed for providing updates and real time support to the daily activity of key cutters, locksmiths and professionals within the security industry worldwide. In fact, users will be able to reach easily and immediately comprehensive materials regarding the entire range of Silca products and access exclusive contents, such as FAQs and tutorial videos. MySilca App integrates smart tools such as the Electronic Key Catalogue and the Vehicle Key Finder Pro.



SILCA EXPERTISE ALWAYS WITH YOU!



Downloadable from **Google Play** or the **App Store**, MySilca is available for Android* and iOS* systems.



* Minimum software version required:
4.1 for Android
7.1 for iOS
Compatible with iPhone, iPad and iPod touch.



MECHANICAL KEY MACHINES

FOR CYLINDER KEYS

BRAVO SERIES

The Bravo series of key cutting machines comprises a number of versatile, professional machines designed for the cutting of keys for cylinder locks (doors and cars) and cruciform keys. Dimensions, materials and lines are carefully designed to optimize working space and facilitate the use of this key cutting machine.

- ♦ High quality versatile clamps; there are two types of clamps, easily and rapidly reversible: two-sided (Bravo Evolution) and four-sided (Bravo Maxima, Bravo Professional).
- ♦ Innovative and ergonomic levers ensure easy and comfortable grip thanks to their shape and their specially designed materials guarantee maximum ease of use.
- ♦ Automatic clamp rotation and alignment system (for four-sided jaws).
- ♦ Patented dynamometric key locking system with controlled movement knob.
- ♦ Carriage release push button and gauge release device.
- ♦ Tracer point with centesimal regulation.



MODELS:

Bravo Professional
Bravo Evolution
Bravo Bd Évolution
Bravo Maxima
Bravo Maxima Plus
Bravo W-Max

Bravo Japan
Bravo Sofer® 2P
Bravo III
Bravo Brazil
Bravo D12

KEY TYPES



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TECHNICAL DATA (This information may differ for each machine model/version)

Motor	single phase: 1 speed (mod. Evolution and Professional); 2 speed (mod. Maxima and W-Max) 230V-50Hz (different voltages available)
Clamps	two-sided (mod. Evolution) four-sided (mod. Professional, Maxima, W-Max)
Cutter	high speed steel (HSS) / carbide (only on mod. W-Max or on request)
Movements	on boarding, self-cleaning, self-lubricating sintered bushes
Dimensions	width: 400 mm, depth 520 mm, height: 400 mm

MECHANICAL KEY MACHINES

FOR CYLINDER KEYS



POKER

Fully automatic key cutting machine for flat cylinder, car keys and cruciform keys.

- ♦ Double-sided revolving clamps with three positions for secure holding of car keys.
- ♦ Micrometrically-regulated tracer point which offers the possibility of making any variations required to the depth of the cuts, rapidly and with great precision.
- ♦ Evacuation of metal chips into lower tray.
- ♦ Clamps positioned for maximum ease of operation.
- ♦ Brush (on request: brush with delayed stopping in relation to the work cycle).
- ♦ On request: rapid plug-in angle lamp.



MODELS:

Poker Plus/S

Poker S

OPTIONAL

Halogen lamp

Adapter for cruciform keys

KEY TYPES



TECHNICAL DATA

Motor	single phase 4 pole - 230V/50Hz
Clamps	double-sided revolving clamps with three positions
Cutter	Ø 80 x 5 x 16 mm
Dimensions	width: 250 mm, depth: 340 mm, height: 330 mm
Weight	21 Kg



MECHANICAL KEY MACHINES

FOR CYLINDER KEYS

REKORD

Key cutting machine for cylinder keys for doors, vehicles and cruciform keys. It duplicates with maximum precision and guarantees optimal working condition to the operator thanks to: high tech materials, ergonomic shapes, carriage movements by gears on a rectified carriage. Compact machine dimensions with optimised movements thanks to the innovative carriage transition lever located within the machine body.

- ♦ Sloping work surface.
- ♦ Four-face rotating clamps.
- ♦ Adjustable tracer point.
- ♦ Ergonomic handles and levers.
- ♦ Led lamp.
- ♦ Incorporated brush.
- ♦ Carriage release lever.
- ♦ Chippings tray.
- ♦ Tools compartment.
- ♦ Exclusive working tools holder.

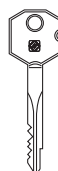


MODELS:

Rekord
Rekord AY
Rekord S

Rekord Brazil
Rekord Sofer®
Rekord D12

KEY TYPES



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TECHNICAL DATA

Motor	one speed, single phase - 230V/50Hz, 120V/60Hz
Clamps	rotating, four-sided
Cutter	high speed steel (HSS)
Dimensions	width: 330 mm (with max. lever encumbrance: 510 mm), depth: 430 mm, height: 270 mm
Weight	19 Kg

SPEED

Fast and easy to use, Speed is perfect for key cutters who have just entered the key duplication business, but also for experienced Duplicating Centres that require a precise and user-friendly machine with a wide range of optional accessories.

- ♦ Fast, compact, precise and user-friendly.
- ♦ The four-face rotating clamps allow to duplicate a high number of keys.
- ♦ Ergonomic shape of handles and levers and innovative design to work in a comfortable environment.
- ♦ Compact dimensions of the machine to save space and better organise the work station.
- ♦ Efficiency and cleanliness of the work station are ensured by the incorporated brush for finishing cut keys and the removable chipping tray.
- ♦ The motor and other moving parts are protected from the introduction of dust and metal chippings.



MODELS:

Speed

Speed S

KEY TYPES



TECHNICAL DATA

Motor	one speed, single phase - 230V/50Hz
Clamps	rotating, four-sided
Cutter	high speed steel (HSS)
Dimensions	width: 400 mm, depth: 460 mm, height: 430 mm
Weight	14 Kg



MECHANICAL KEY MACHINES

FOR CYLINDER KEYS

DELTA 2000 SERIES

Ergonomic design, four-face jaws, on board chipping tray, incorporated brush.

- ♦ All models cut effortlessly brass, silver nickel, and steel keys.
- ♦ Its compact dimensions and its clean and modern lines make it suitable for shops of any size.
- ♦ Integrated chipping tray.



MODELS:

Delta 2000 A

Delta 2000 M

KEY TYPES



TECHNICAL DATA

Power supply	230V/50Hz
Motor	one speed, single phase
Cutter	high speed steel (HSS) - Ø 60 mm
Clamps	rotating, four-sided
Dimensions	width: 370 mm, depth: 210 mm, height: 250 mm
Weight	14 Kg

MECHANICAL KEY MACHINES

FOR LASER AND DIMPLE KEYS



TWISTER II

Twister II is an easy to use, reliable and convenient mechanical key cutting machine delivering accurate and consistent duplicates of dimple, laser and Fichet® type keys. The machine provides a range of optional accessories for expanding its capabilities to tubular keys and to a wide range of vehicle keys.

- ♦ Practical and comfortable: the two-axis carriage is controlled by a system of ball bearings and guides for smooth and effortless movements.
- ♦ Spring loaded tracer point for accurate results.
- ♦ Twister II features an optimized and economical repair solution for substituting worn out clamps thanks to the replaceable jaws of the clamp on the cutter side of the machine.
- ♦ The working area of the machine is illuminated by an integrated LED light, an energy-efficient and ergonomic solution.
- ♦ Designed to have a small footprint, Twister II is compact, light and built to last.



KEY TYPES



(*) Duplicable with dedicated optional accessories

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TECHNICAL DATA

Power supply	230V/50Hz
Motor	one speed, single phase
Cutter	high speed steel (HSS)
Clamps	rotating, four-sided
Dimensions	width: 250 mm, depth: 370 mm, height: 370 mm
Weight	24 Kg



MECHANICAL KEY MACHINES

FOR LASER AND DIMPLE KEYS

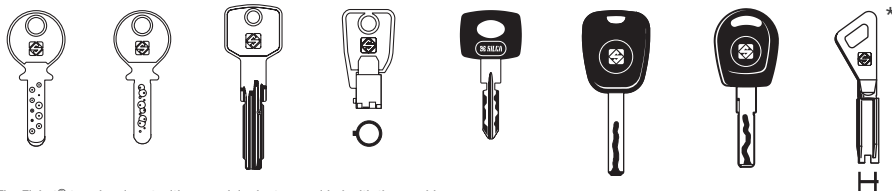
MATRIX PRO

Matrix Pro is a key cutting machine that provides top quality performance and precision in duplicating dimple keys with flat or inclined cuts, laser type keys, Fichet® type keys and tubular keys.

- ♦ Tilting clamps ($0^{\circ} \pm 45^{\circ}$) with four seats for perfect positioning of different types of keys.
- ♦ Cutters: new HSS material and innovative design. Coloured plastic collar for easier reference identification (Patent Pending).
- ♦ Electromechanical calibration system.
- ♦ Illumination: LED lights with automatic on/off system activated by proximity sensors (Patented Solution).



KEY TYPES



(*) The Fichet® type key is cut with a special adapter provided with the machine

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TECHNICAL DATA

Power supply	230V - 50Hz: 0,75 Amp. - 170 Watt
Motor	one speed, single phase
Cutter	high speed steel (HSS)
Clamps	tilting with interchangeable plates
Dimensions	width: 310 mm (with max. lever encumbrance: 400 mm), depth: 400 mm, height: 470 mm
Weight	24,6 Kg

MECHANICAL KEY MACHINES

FOR LASER AND DIMPLE KEYS



MATRIX EVO

Matrix Evo is a key cutting machine that provides top quality performance and precision in duplicating dimple keys with flat or inclined cuts, laser type keys and Fichet® type keys.

- ♦ Tilting clamps ($0^{\circ} \pm 45^{\circ}$) with three seats for perfect positioning of different types of keys.
- ♦ Cutters: new HSS material and innovative design. Coloured plastic collar for easier reference identification (Patent Pending).
- ♦ Electromechanical calibration system.
- ♦ Working area illuminated by LED lights.



KEY TYPES



(*) The Fichet® type key is cut with a special adapter provided with the machine

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TECHNICAL DATA

Power supply	230V - 50Hz: 0,75 Amp. - 170 Watt
Motor	one speed, single phase
Cutter	high speed steel (HSS)
Clamps	tilting with interchangeable plates
Dimensions	width: 310 mm (with max. lever encumbrance: 400 mm), depth: 400 mm, height: 470 mm
Weight	24,6 Kg



MECHANICAL KEY MACHINES

FOR LASER AND DIMPLE KEYS

MATRIX ONE

Matrix One is a key cutting machine for laser keys and keys with flat dimple cuts.

- ♦ Calibration system: an innovative key pad display facilitates the electromechanical calibration of the machine.
- ♦ Electromechanical calibration, centesimal precision in adjusting depth of cuts, spring loaded tracer point.
- ♦ Ergonomic roll-bar: the roll-bar rest for the left hand provides the operator with ideal and comfortable working conditions.
- ♦ Safe and efficient: the lever controlling the movements on the vertical axis (Z axis) has a push button to activate an incorporated micro-switch ensuring greater operator safety, speed and efficiency.



KEY TYPES



(*) The Fichet® type key is cut with a special adapter provided with the machine

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TECHNICAL DATA

Power supply	230V - 50Hz: 0,75 Amp. - 170 Watt
Motor	one speed, single phase
Cutter	high speed steel (HSS)
Clamps	fixed with interchangeable plates
Dimensions	width: 310 mm (with max. lever encumbrance: 400 mm), depth: 400 mm, height: 470 mm
Weight	24,6 Kg

MECHANICAL KEY MACHINES

FOR BIT AND DOUBLE BIT KEYS



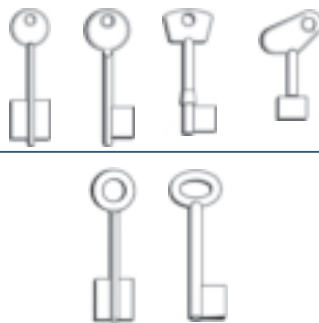
OMNIA

Omnia is a professional key cutting machine to duplicate bit and double bit (male and female) keys, central stop and pump keys.

- ♦ Speed and precision in the clamping of any type of key with no limits to the stem length (also long-stemmed keys for safes).
- ♦ Exclusive innovations: brand new, long-lasting cutter with cutting-edge material coating and innovative design, that guarantees stability while cutting, led lighting.
- ♦ See-through cover.
- ♦ Automatic turning off of the machine through a microswitch while installing the key.
- ♦ Wide view and access to the working area ensuring high safety standards and reliability.
- ♦ The incorporated tool holder dedicated to female keys tailstocks (optional) guarantees quick identification and immediate finding of the right accessory.



KEY TYPES



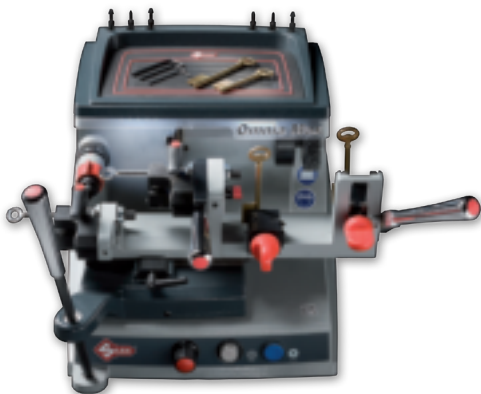
TECHNICAL DATA

Power supply	230V - 50Hz
Motor	one speed, single phase
Cutter	TiN-coated high speed steel (HSS)
Movements	on cross table by ball guides (carriage) and ball socket joint (lever)
Dimensions	width: 395 mm, depth: 550 mm, height: 320 mm
Weight	32 Kg

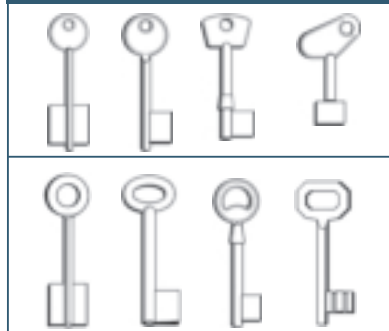
OMNIA MAX

Omnia Max is a professional key cutting machine to duplicate bit and double bit (male and female), pump, adaptable gorges keys, central and rear stop keys and keys with vertical cuts.

- ♦ Speed and precision in the clamping of any type of key with no limits to the stem length (also long-stemmed keys for safes).
- ♦ Exclusive innovations: brand new, long-lasting cutter with cutting-edge material coating and innovative design, that guarantees stability while cutting, vertical cuts carriage, pull-out gauge, led lighting.
- ♦ See-through cover.
- ♦ Automatic turning off of the machine through a microswitch while installing the key.
- ♦ Wide view and access to working area ensuring high safety standards and reliability.
- ♦ The incorporated tool holder dedicated to female keys tailstocks (optional) guarantees quick identification and immediate finding of the right accessory.



KEY TYPES



TECHNICAL DATA

Power supply	230V - 50Hz
Motor	one speed, single phase
Cutter	TiN-coated high speed steel (HSS)
Movements	on cross table by ball guides (carriage) and ball socket joint (lever)
Carriage runs	53 mm X axis, 42 mm Y axis, 50 mm Z axis (for vertical cuts carriage only)
Dimensions	width: 395 mm, depth: 550 mm, height: 320 mm
Weight	33,5 Kg (with 2 carriages)

MECHANICAL KEY MACHINES

FOR BIT AND DOUBLE BIT KEYS



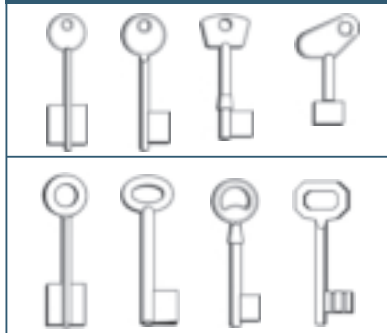
OMNIA W MAX

Omnia W Max is a professional key cutting machine to duplicate bit and double bit (male and female), pump, adaptable gorges keys, central and rear stop keys and keys with vertical cuts.

- ♦ Speed and precision in the clamping of any type of key with no limits to the stem length (also long-stemmed keys for safes).
- ♦ Exclusive innovations: brand new, long-lasting cutter with cutting-edge material coating and innovative design, that guarantees stability while cutting, vertical cuts carriage, pull-out gauge, led lighting.
- ♦ See-through cover.
- ♦ Automatic turning off of the machine through a microswitch while installing the key.
- ♦ Wide view and access to working area ensuring high safety standards and reliability.
- ♦ The incorporated tool holder dedicated to female keys tailstocks (optional) guarantees quick identification and immediate finding of the right accessory.



KEY TYPES



TECHNICAL DATA

Power supply	230V - 50Hz
Motor	one speed, single phase
Cutter	carbide
Movements	on cross table by ball guides (carriage) and ball socket joint (lever)
Carriage runs	53 mm X axis, 42 mm Y axis, 50 mm Z axis (for vertical cuts carriage only)
Dimensions	width: 395 mm, depth: 550 mm, height: 320 mm
Weight	33,5 Kg (with 2 carriages)

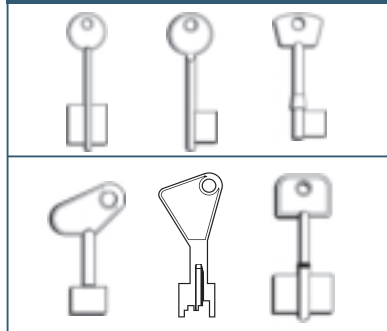
FASTBIT

Fastbit is the key cutting machine for duplicating bit, double bit (male and female), pump keys and central stop keys.

- ◆ Thanks to its micrometric tracer point, the reading of the original key is fast and highly precise. In addition, the operator can adjust with ease depth variations, often needed with worn keys.
- ◆ The self-centring clamps with alignment pins facilitate the correct positioning of the key.
- ◆ The ergonomic handles ensure that the key is securely blocked with only slight locking pressure.
- ◆ Smooth and effortless handling of the tilting carriage.
- ◆ TiN-coated milling cutter with side cuts, ensuring fast and flowing movements.
- ◆ Spring loaded tracer point.
- ◆ Ergonomic handles and levers.



KEY TYPES



TECHNICAL DATA

Power supply	230V - 50/60Hz
Motor	one speed, single phase
Cutter	with side cuts, TiN-coated high speed steel (HSS)
Movements	by ball joint on rectified carriage
Runs	(maximum length of cuts): 42 mm
Dimensions	width: 400 mm, depth: 460 mm, height: 300 mm
Weight	15,4 Kg

MECHANICAL KEY MACHINES

FOR BIT AND DOUBLE BIT KEYS



FASTBIT II

Fastbit II is the key cutting machine from Silca to duplicate bit, double bit, pump, mail box, central stop and special keys.

- ◆ Thanks to its micrometric tracer point, the reading of the original key is fast and highly precise. In addition, the operator can adjust with ease depth variations, often needed with worn keys.
- ◆ The revolving, 3-sided clamps make it easy to block a broad variety of keys without the need of optional accessories: bit, double bit, pump, central stop, mail box and special keys, such as Abloy®, Abus®, Luma® and Ava Chubb® key types.
- ◆ Spring loaded tracer point.
- ◆ Ergonomic handles and levers.
- ◆ Compact dimensions and clean-cut design.
- ◆ With the dedicated original optional accessories the machine can copy also keys with vertical cuts.



KEY TYPES



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TECHNICAL DATA

Power supply	230V - 50/60Hz
Motor	one speed, single phase
Cutter	TiN-coated high speed steel (HSS)
Movements	by ball joint on rectified carriage
Runs	(maximum length of cuts): 42 mm
Dimensions	width: 400 mm, depth: 460 mm, height: 300 mm
Weight	15,4 Kg

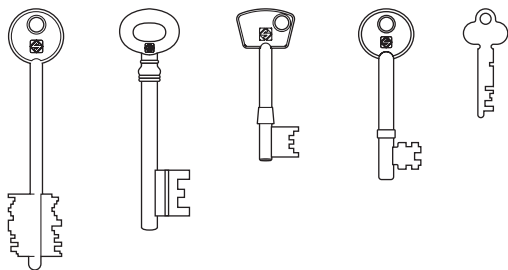
LANCER PLUS

Lancer Plus is a key cutting machine for bit, double bit, and mail box keys.

- ♦ The face side and bullet cuts are carried out without removing the keys from the clamps.
- ♦ Microswitch for activating the cutting tools applied to the main joystick control lever.
- ♦ Two cutters, one for straight cuts, and one for side cuts and wards.



KEY TYPES



TECHNICAL DATA

Power supply	230V - 50/60Hz
Motor	one speed, single phase
Cutter	high speed steel (HSS)
Clamps	revolving (180°) and removable
Movements	synchronized by means of 3 axes on guides, grinding and tempered column
Dimensions	width: 450 mm, depth: 680 mm, height: 300 mm
Weight	33 Kg

DELTA 2000 FO

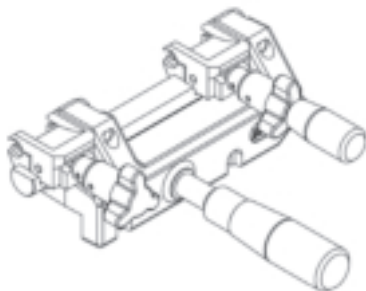
Key cutting machine for duplicating by code Ford® Tibbe® (FO21P) and Jaguar® Tibbe® type (TBE1P - TBE2P) keys. Innovative, small and compact, versatile.

Optional carriage:

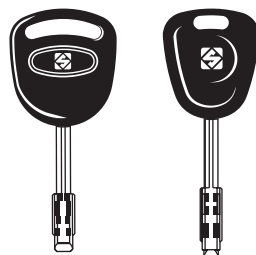
- ♦ “Multicopy” carriage for duplicating Ford® (FO19P-FO20P), Abus® (AB32- AB38P), Abloy® and Ava®-Chubb® keys. “Multicopy” carriage requires a dedicated 1,4 mm cutter in HSS.



MULTICOPY OPTIONAL CARRIAGE



KEY TYPES



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TECHNICAL DATA

Power supply	230V - 50/60Hz
Motor	one speed, single phase
Cutters	high speed steel (HSS)
Carriage	interchangeable
Dimensions	width: 210 mm, depth: 370 mm, height: 250 mm
Weight	14 Kg

DELTA 2000 MC

Key cutting machine for duplicating special keys, such as Ford® (F019P-F020P), Abus® (AB32-AB38P), Abloy® and Ava®-Chubb® keys. Innovative, small and compact, versatile.

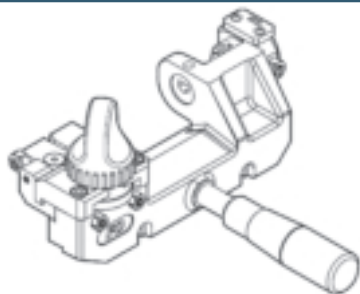
Optional carriage:

- ♦ “FO” carriage for duplicating by code Ford® Tibbe® (F021P) and Jaguar® Tibbe® (TBE1P-TBE2P) keys.

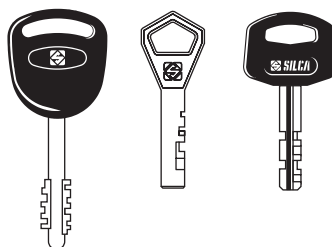


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OPTIONAL CARRIAGE



KEY TYPES



TECHNICAL DATA

Power supply	230V - 50/60Hz
Motor	one speed, single phase
Cutters	high speed steel (HSS)
Carriage	interchangeable
Dimensions	width: 210 mm, depth: 370 mm, height: 250 mm
Weight	14 Kg

MECHANICAL KEY MACHINES

FOR SPECIAL KEYS



CROWN

Key cutting machine for tubular keys with frontal cuts.

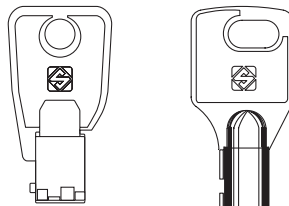
- ♦ Standard version supplied with synchronised self-centering clamp (T10) for tubular keys.
- ♦ The synchronisation device automatically rotates the key blank proportionately as the original key is rotated.
- ♦ Rotation may be free through 360° or set to stop in 6 or 8 predetermined positions, by activating a selector.
- ♦ 12 additional clamps are available on request for special requirements.



MODELS:

MODELS:	
Crown	Crown-15


KEY TYPES



TECHNICAL DATA

Power supply	230V - 50/60Hz
Motor	one speed, single phase
Cutter	Ø 5,95 mm
Clamp	self-centering - synchronized
Dimensions	width: 230 mm, depth: 450 mm, height: 180 mm
Weight	17 Kg

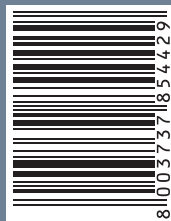


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