

UNOCODE *F* Series

MAKE EVERY MINUTE COUNT WITH SILCA'S UNIQUE UNOCODE *F* SERIES KEY CUTTING MACHINES



Designed for specialist locksmiths, Silca's latest electronic key cutting machines automate and simplify the complete key duplication process to improve the speed and quality of service to your customer.

Faster key duplication means significantly improved returns on each key sold for you.



The Unocode F Series machines have been designed and manufactured in conformity with CE mark European standards.

MAKE EVERY MINUTE COUNT WITH SILCA'S UNIQUE UNOCODE *F* SERIES KEY CUTTING MACHINES



- **Unocode F900** is the truly all-in-one solution for duplicating flat keys, automating the key feeding, engraving, cutting and sorting.
- **Unocode F800** automates the duplication by code of flat keys.
- **Unocode F600** optimizes the cutting and engraving process of flat keys.
- **Unocode F400** copies by code, by original and by decoding flat residential and vehicle keys.
- **Unocode F100** copies by code flat residential and vehicle keys.

THE RANGE



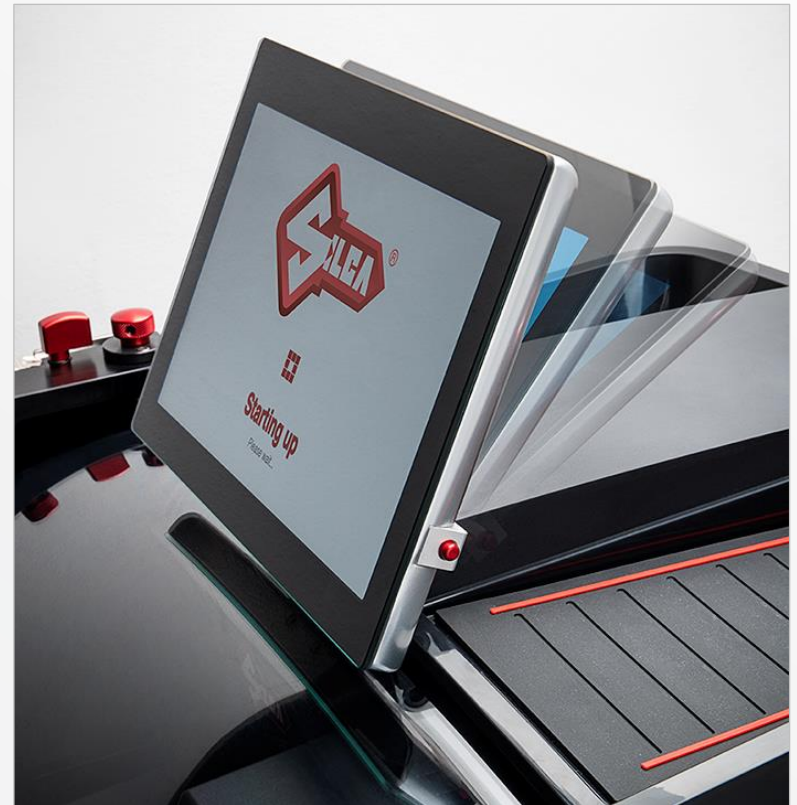
	F900	F800	F600	F400	F100
Copy by code	✓	✓	✓	✓	✓
Decoding via camera reader and copy by original	✓	✗	✓	✓	✗
Engraving unit for double-sided key marking	✓	✓	✓	✗	✗
Automatic key feeding and sorting	✓	✓	Optional	Optional	✗

USER-FRIENDLY SOFTWARE INTERFACE

- Intuitive software interface developed for the needs of professional locksmiths, with shortcuts to the most used cutting cards and job queues
- Works in stand-alone
- Compatible with SKP Pro to work with existing data archives and Codemaker cards

PROFESSIONAL DISPLAY

- Integrated, industrial 10-inch, touch-screen display
- Tilts to give the perfect viewing angle
- Immediate response to the touch (0,01 seconds)
- Colour display with a resolution of 1280x800 pixels



FULL CONNECTIVITY

- Connection both via Wi-Fi and via Ethernet to the local LAN Network
- 4 USB ports (2 ports 3.0 + 2 ports 2.0)
- HDMI port to connect an external screen
- Possibility to connect a wireless keyboard and mouse





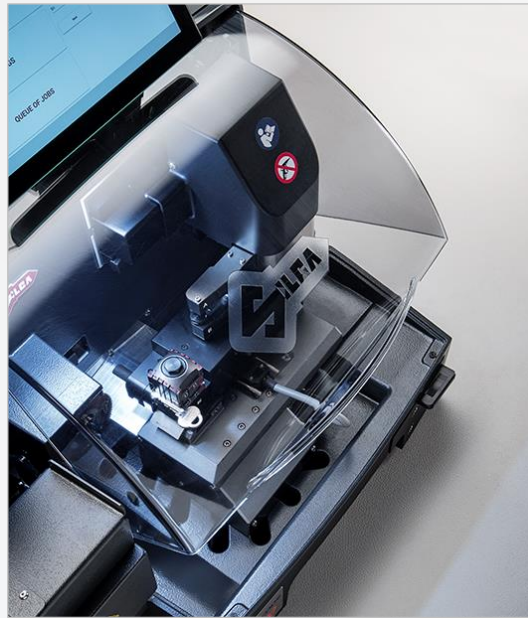
CLEANER AND MORE COMFORTABLE WORKING AREA

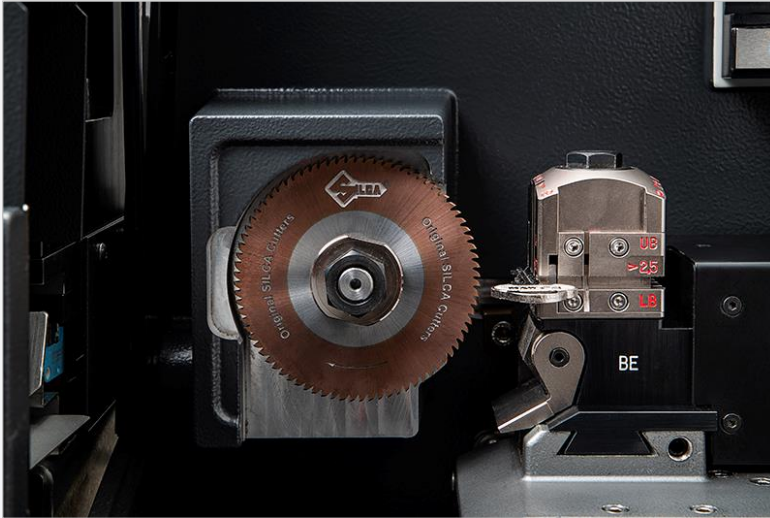
- The machine is completely enclosed: swarf is collected in the tray below the cutting area to leave the working area clean
- 55% bigger working area compared to previous models for easier operation



SAFER WORKING AREA

- The safety shield closes and opens automatically when starting or ending a cycle
- The shield features two microswitches and stops automatically if obstructed to give additional protection



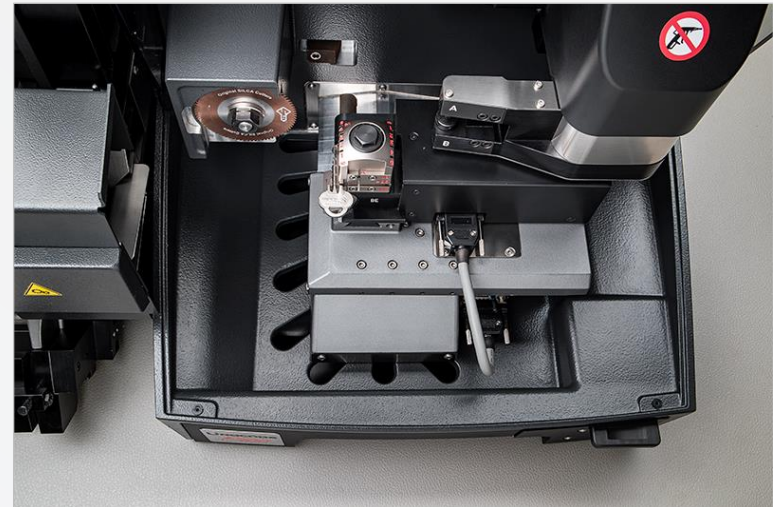


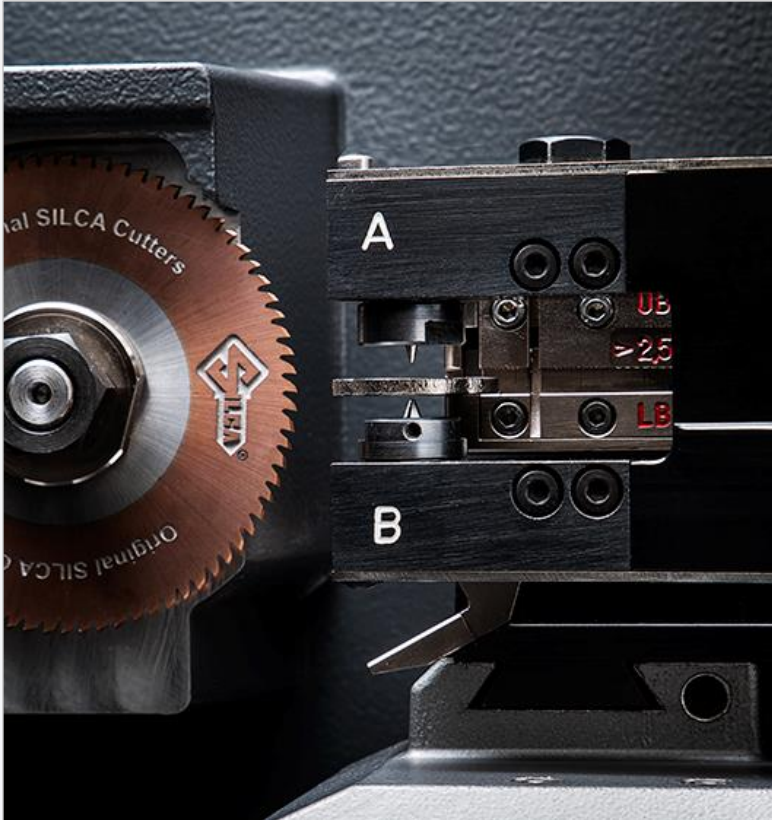
QUIET

- New structure optimized to absorb vibrations and noise
- Less vibrations thanks to the new 80 teeth cutter in hard metal (widia)
- A completely enclosed working area reduces noise during marking and cutting

TOP PERFORMANCE

- Precision results
- Fully automated cutting, marking and sorting processes (F900 and F800)
- Automatic key feeding in 10 seconds (F900 and F800)

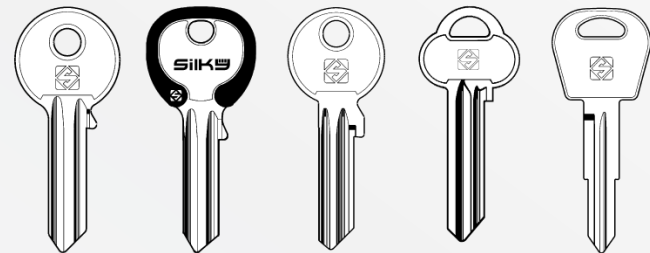




AUTOMATED, DOUBLE-SIDED MARKING

- Dramatically reduces process time: no need to install a separate tool or to move the key manually
- Avoids mistakes in a manual process, especially when engraving Master Key Systems
- Both key sides can be independently marked

KEYS THAT CAN BE ENGRAVED



Keys must be metal (not aluminium) and mustn't have plastic heads. Silky keys can be engraved.



CAMERA READER FOR FAST OPTICAL DECODING

- Unique, patent-pending solution for immediate decoding
- No positioning needed: just drop the key in the pull-out compartment
- Double-sided keys with asymmetrical cuts and single-sided keys with protrusions such as ball bearings or other patented design elements cannot be decoded



- The software shows the difference between the depths read and the depths defined by the manufacturer

ROBOTIZED FEEDING, PROCESSING AND SORTING

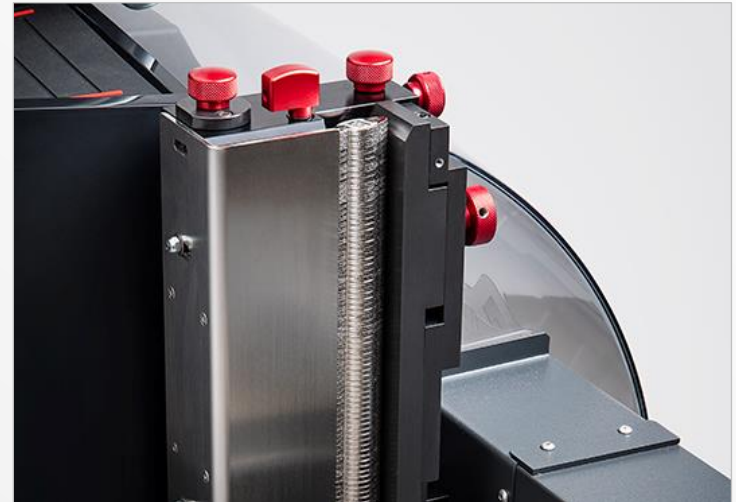
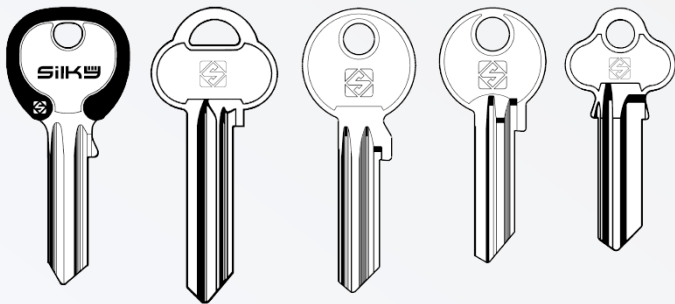
- Automatic feeder is always available. No time wasted on installation
- No air compressor needed
- Possible to manually cut keys without removing the feeder



ROBOTIZED FEEDING, PROCESSING AND SORTING

- Stacker and First-In-First-Out “FIFO” sorter process around 100 keys at a time
- Front facing sorter for ease of access
- Sorter equipped with a sensor to detect when full
- Stacker can be removed for easy filling

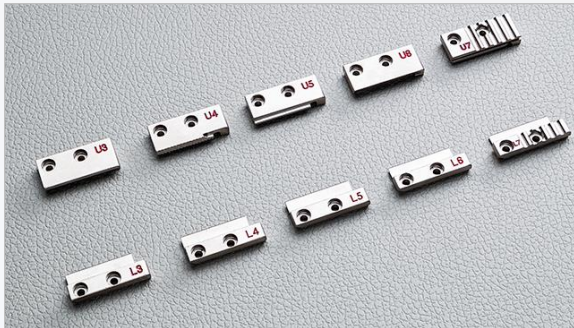
KEYS AUTOMATICALLY PROCESSED WITH STACKER, FEEDER AND SORTER



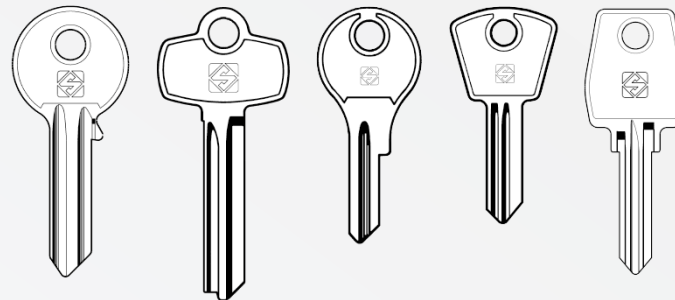


CUSTOMIZABLE CLAMP

- The specially designed upper and lower jaws mean the clamp can be customized on two sides to take special key profiles
- The modular jaw system means that the capability of the F900 and F800 can be expanded according to market developments
- Optional jaws are available to cut systems including Cisa® TSP and SP, Assa® D12 and DP Cliq, Dom® RS8, Abus® XY14/Y14 and Winkhaus® RPE-RPS amongst others
- The standard V4 clamp holds residential keys from 1 to 4 mm thick whereas the feeder manages keys ranging from 1.8 to 4 mm thick

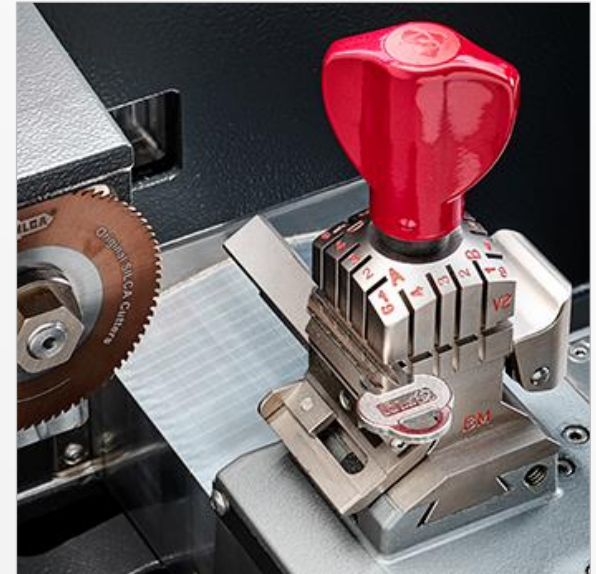


KEYS CUT WITH THE V4 CLAMP

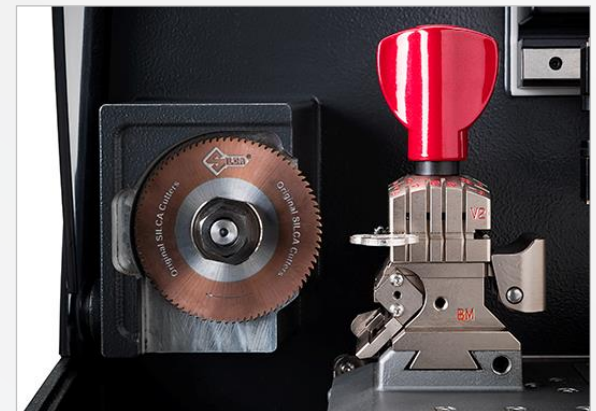
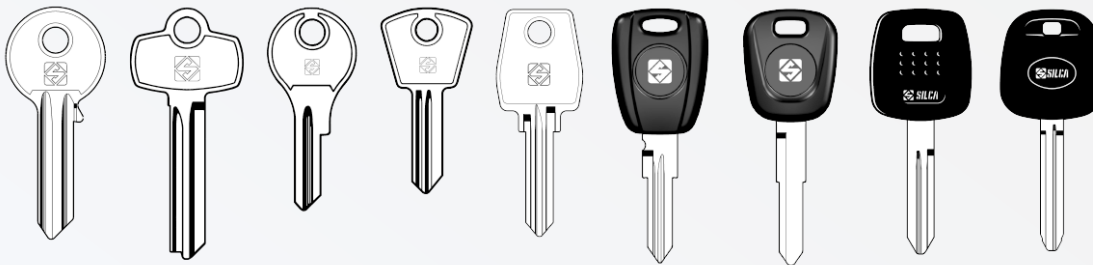


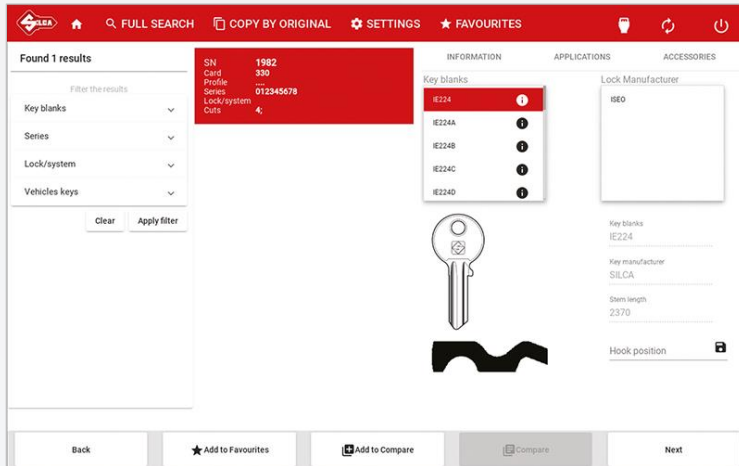
FOUR-SIDED, VERSATILE CLAMP

- Four-sided clamp for optimized blocking of a wide variety of keys, both with head and tip stop
- Ergonomic and dynamometric knob for an easy key installation
- Nickel plating for better resistance to rust and wear
- Wide gauge with mobile stop fits keys with tip stops perfectly
- The software shows which clamp side and which stop you should use



KEYS CUT WITH THE V2 CLAMP



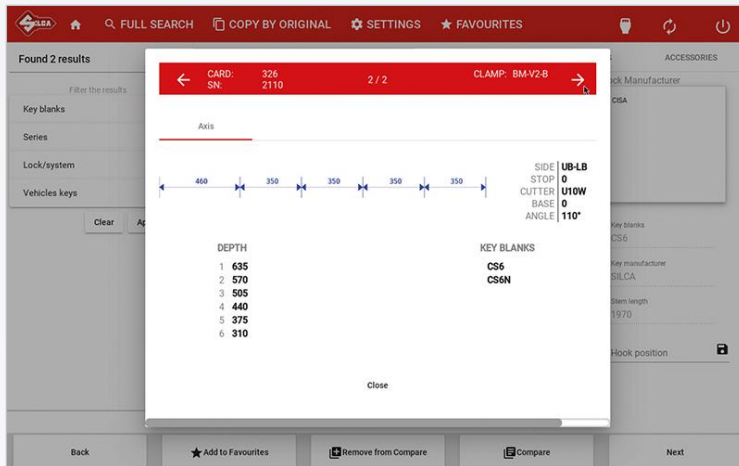


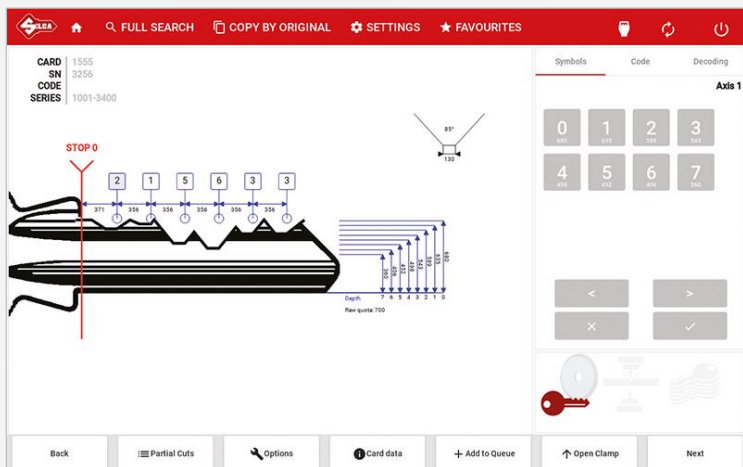
UNOCODE F SERIES SOFTWARE

For the Unocode F Series key machines we have developed an entirely new software, engineered specifically to make your job easier and quicker. The new interface can also be customized according to your needs, so that you can keep within easy reach the functions you use most frequently.

- Cutting cards comparison available on board
- Code tables available on board
- Cutting cards shortlist*: when decoding a key, you don't have to select a cutting card first. The camera reader decodes the key cuts and provides you with a shortlist of cards from which you can choose the one you need (not available on Unocode F800 and F100)
- Onboard video tutorials and product manual

* Coming soon with a software update





UNOCODE F SERIES SOFTWARE

- Customize your favourites: you can rename the cutting cards you use most frequently and reorder them according to your needs
- Remote service to support you when needed



Performance



Speed



Safety



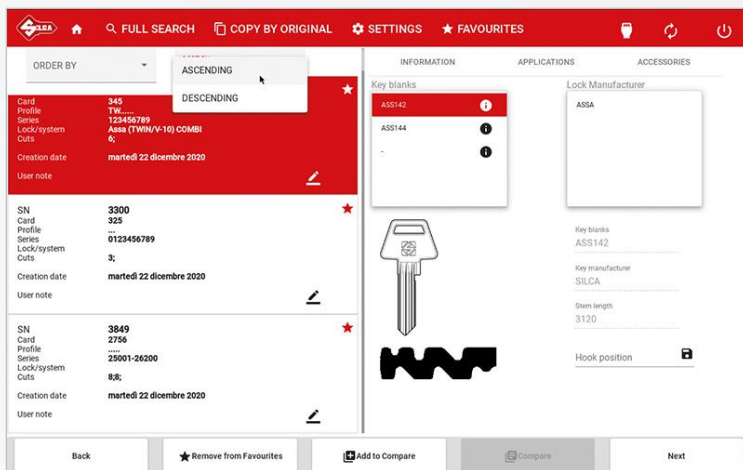
Remote
assistance



Video
Help



Compatible
with SKP Pro



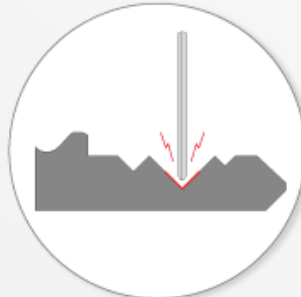
THE UNOCODE F SERIES IN NUMBERS



F900 - F800

100 keys

feeder capacity with
2.5 mm thick keys



F900 - F800

Around 90 keys

with 5 pins cut and engraved
automatically per hour



F900 - F800

10 seconds max.

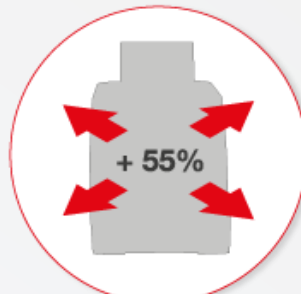
for automatic key feeding



F900 - F600 - F400

50% faster

key decoding



All models

55% bigger

working area



All models

10" display

industrial grade

PATENT PENDING SOLUTIONS



All models

Automatic opening and closing of protection shield



F900-F600-F400

Integrated camera reader



F900-F800-F600

Fully automatic engraving on both key sides



F900 - F800

Clamp with two customizable sides

REGISTERED COMMUNITY DESIGN



Protecting the Unocode F Series design in all its versions

TECHNICAL DATA

Electricity supply	100-240V - 50/60Hz
Cutter motor	48VDC
Engraving motor (F900-F800-F600)	24VDC
Key cutter	Prismatic in coated hard metal (widia)
Engraving cutters (F900-F800-F600)	Upper cutter 'A' in coated hard metal (widia) Lower cutter 'B' in hard metal
Tool speed	Prismatic cutter: 1070 rpm Engraving cutters (F900-F800-F600): 14500 rpm
Movements	On 2 axes with ball screws activated by step motors on ground roller runners. Rotating axis available with optional clamp
V4 clamp (F900-F800)	With 4 standard sides for gripping keys with different thicknesses < 2.7: for thicknesses 1 mm to 2.7 mm > 2.5: for thicknesses 2.5 mm to 4 mm
V2 clamp (F600-F400-F100)	With 4 sides, closes perfectly keys fitted on their backs or on the profile if the key has symmetrical cuts
Runs	With clamp: X axis: 30 mm, Y axis: 72 mm Keys with head stop: Y axis: max. 45 mm (by copy and by code) Y axis: max. 42 mm (with feeder) Keys with tip stop: Y axis: max. 45 mm (by copy and by code)
Dimensions	Width: 921 mm - Depth: 740 mm - Height: 680 mm (F900-F800) Width: 502 mm - Depth: 740 mm - Height: 680 mm (F600-F400-F100)
Weight	Without feeder: 61.7 Kg - With feeder: 87.7 Kg (F900) Without feeder: 61.2 Kg - With feeder: 87.2 Kg (F800) 58.6 Kg (F600) - 54 Kg (F400) - 52 Kg (F100)

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