

SOFTWARE OPERATING GUIDE

FUTURA AUTO



vers. 3

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PROGRAM START

To start the program tap the icon on the Tablet screen.

If the program does not start check the network settings/use (see Ch.6.3.3).

FUTURA AUTO



1- Search

Menu used to select a category of Series Searches.

2 - Copy vehicles keys

This function is used to copy vehicle keys with standard cuts and laser track cuts.

3 - My Keys Safe

After activating MYKEYS Safe, the menu can be used to store the key digitally and copy it through an APP (without actually having the key).

4 - Queue of jobs

Menu used to run the job queue previously created by the search menu.

5 - Options

Menu used to set up the machine.

6 - Machine name

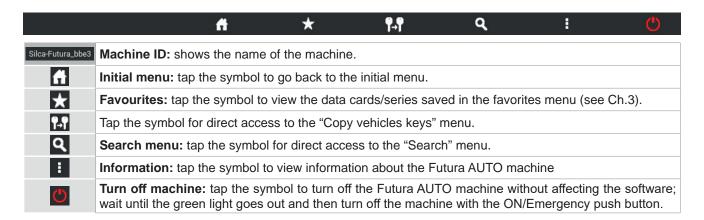
The name of the machine model being used is shown.

7 - Upgrades

Menu used to update machine software.

8 - Info

Menu showing machine details.



CHOICE OF KEYBOARD

When the FUTURA program is started you are required to choose the type of keyboard you will use for entering data.

SILCA Keyboard: smaller keyboard specially designed for the FUTURA program.

Google Keyboard: standard Android Tablet keyboard.

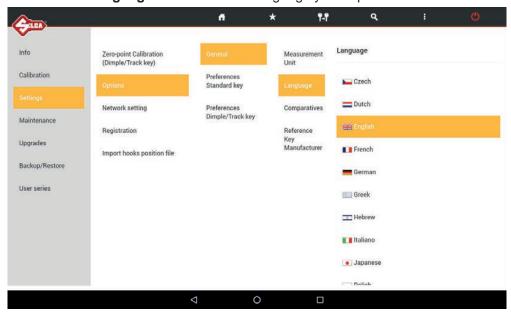


If you have chosen the Silca keyboard you can go back to Android by hitting the key on the Silca keyboard.



CHANGE PROGRAM I ANGUAGE

The default program language is English. To change language go to the **Options** menu (Ch.6), select **Settings** -> **Options** -> **Ceneral** -> **Language** and choose the language you require.



MEASURING UNITS

All the values given in the program for the technical measurements of keys and clamps are expressed in hundredths of a millimetre (default) or thousandths of an inch, according to the measuring unit chosen from the "Options" menu.

DROP-DOWN MENU



To view this menu on the Tablet scroll from left to right to open the list:

Connect to: used to find the Futura AUTO machine, if there is a Wi-Fi CONNECTION or DIRECT CONNECTION.

Reload page: used to reload the page if it is not properly viewed/activated.

Restart Machine: used to restart the machine.

Machine IP address: used to enter the Futura AUTO IP address manually (default is192.168.0.1).

Reset Axes: used to clear the axes on the machine.

Machine Status: used to see connection status between the machine and Tablet.

Change Keyboard: used to select and set the type of keyboard to be used (Silca or Google keyboard)

Machine Registration: used to register the machine when the Tablet is connected to a Wi-Fi network with internet access.

Update FUTURA: used to download new updates for the machine:

- by tablet connected to a Wi-Fi network with access to the internet (Ch.7.3.1).
- by USB PEN DRIVE and PC with access to the internet (Ch.7.3.2).

Tethering: see Chapter 6.3.3.c.

Recovery tools: this function is protected by a password and is for the exclusive use of Silca personnel.

In addition, the Silca App version installed on the Tablet is shown below.

1 SEARCHES



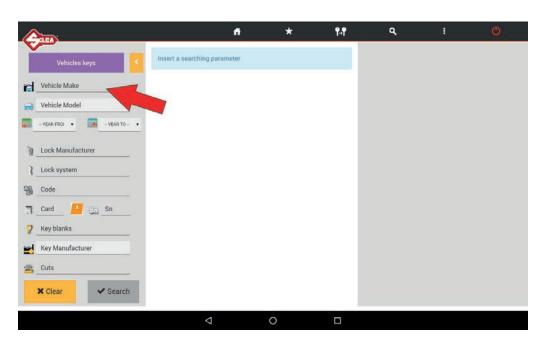
1.1 VEHICLE keys

This menu is used to restrict a search to the category of standard edge cut and track vehicle keys only (e.g.: GT15R - HON66GP - HU66P - SIP22LP - TOY40P - TOY43...)

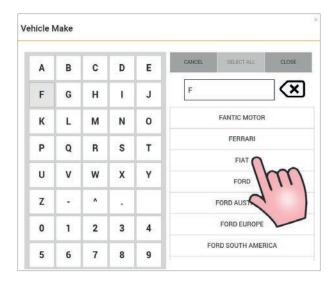
See example of VEHICLE KEYS search flow:

When you enter the VEHICLE keys category the following window appears for you to enter the search parameters.

Tap "VEHICLE MAKE"; a guided procedure appears to simplify your search.



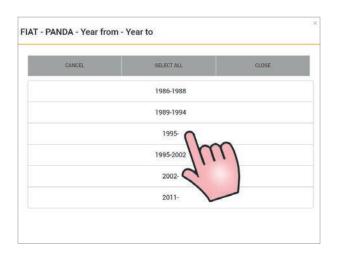
Enter the first letters of the MAKE and select the one you require.



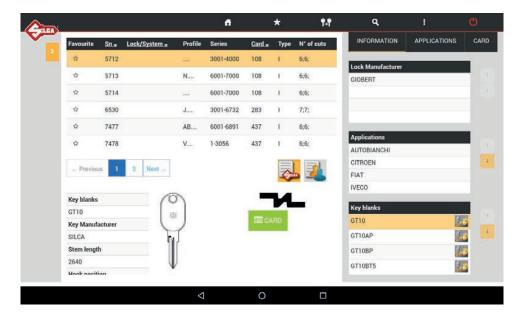
Enter the first letters of the VEHICLE MODEL and select the one you require.



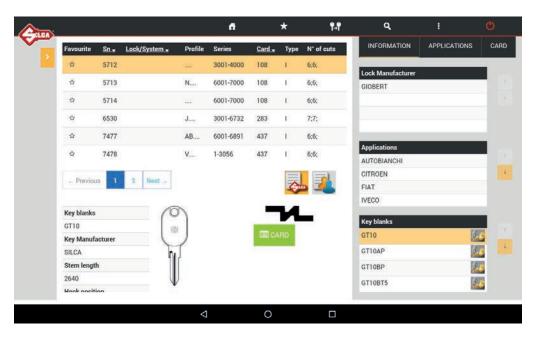
Select the YEAR.



Select the CARD key to access the cutting data card.



1.2 DATA CARD/SERIE info



To access the cutting card select the relevant line and tap the "OPEN CUTTING CARD" button.

In the section of the window showingthe search results



- Order searches by tapping the arrow next to the relative fields.
- Select a series from those shown, or search for it on the next pages: | Previous | 1 | 2 | 3 | ... |
- Select the "Silca" or "User" series:
 - "Silca" is the default icon for viewing Silca series.
 - tap "User" to view the existing user series (Ch.9) associated to the selected card.
- Tap the special field to enter the Hook position: it is automatically saved when the keyboard is turned off.

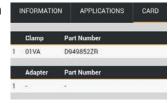
There are "3 folders" on the right of the screen:

INFORMATION: shows information about the lock make, applications and Silca/Ilco key blank. Info about a key can be viewed by tapping the field relating to the key blank.

APPLICATIONS: shows the applications for which this key blank is used: locks, cylinders, vehicle model,etc.



CARD: shows information relating to accessories needed for cutting keys with the Futura AUTO key-cutting machine.



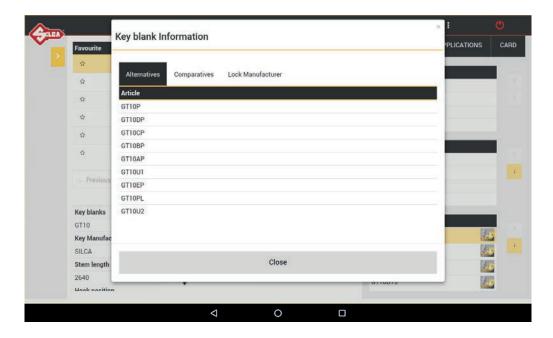
Next →

KEY BLANK

To gain access to additional information regarding the Silca key blank simply tap on the following icon

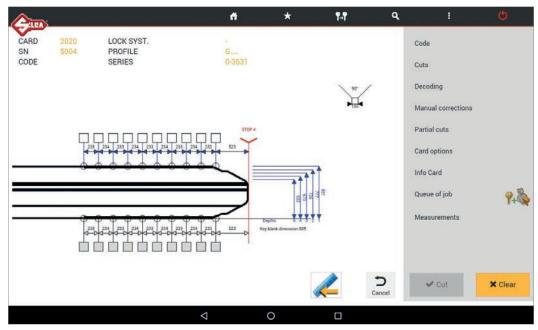


- List of other Silca key blanks that can be used
- · List of comparative key blanks
- List of Brand names linked to the Silca key blank.



1.3 Using a CUTTING DATA CARD

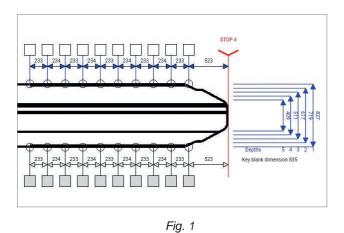
Example:



The screen shows all the technical details relating to the selected cutting card (e.g. **Card**, **SN**, **Profile**, **Series**, **Spaces**, **Depth**, **Cutting angle**).

Tap the Cancel key to go back to the previous screen.

Tap to edit the way to view depths on the card:



Depths referring to the "key axis"

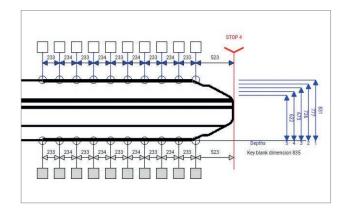


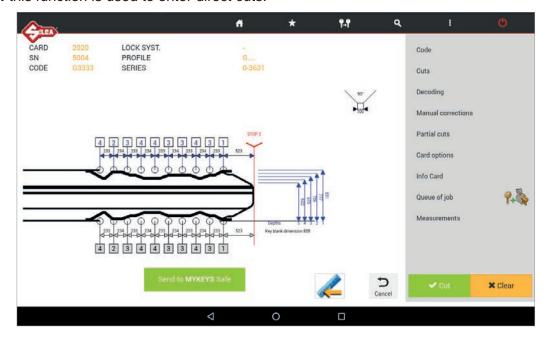
Fig. 2

Depths referring to "key back" (i.e. the plate/bottom of the clamp)

Note: this function is only available for two sided symmetrical keys.

The list on the right contains the functions listed below:

- CODE: enter the indirect code for cutting the key.
- CUTS: this function is used to enter direct cuts.



• QUEUE OF JOB: If the cut is filled and correct you can save your job in "Queue of Job" by tapping the following icon (the job can then be done afterwards).

Tap on "Queue of Job" to display the list of jobs available.

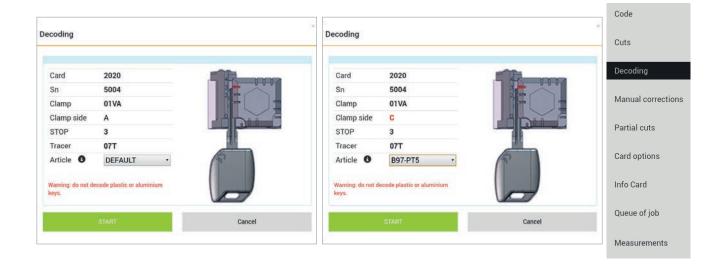
Tap 'Send to MYKEYS Safe' send to MYKEYS Safe (see Ch.4).

• **DECODING:** used to decode the cuts on the original key.

ATTENTION: make sure the key to be decoded is clean.

ATTENTION: anodised aluminium keys, plastic keys or any other key without electrical conductivity CANNOT BE decoded!

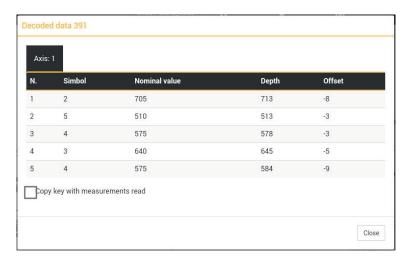
Tap "Decoding": information appears regarding the position of the key in the clamp.



SELECT ARTICLE: to solve installation difficulties encountered with symmetrical vehicle keys on side A or B of the standard clamp, the user may select the key blank before decoding the key. In this way the machine will indicate the best side of the clamp (C or D) on which to fit the key and can run the decoding operation successfully.

To continue tap START and perform the operations described on the screen. At the end of the operation tap OK.

To view the decoded measurements and the measurements read on the key, tap "Decoded Values" on the bottom of the screen.



Then tap "CUT" to cut the key using the combination provided by the previous operation.

Copy key with measurements read: after decoding a key the cuts can be verified and compared to the keys original cuts. If the cuts "Offset" values are significant, it's possible to cut the key by using the measurements just read (not the keys original cuts nominal values that are in the card) by inserting a check "flag" in the appropriate box.

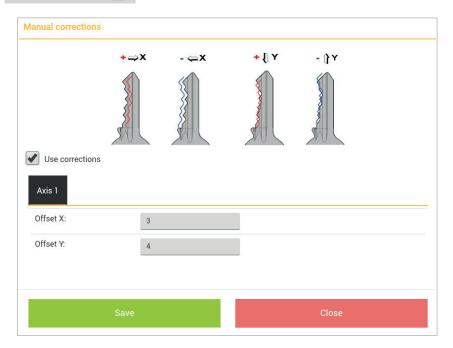
NOTE: when decoding standard keys, you must use the clamp side designated by the software as well as the stop position designated in order to decode the key properly. Use of other clamp positions or stop positions will result in a misread key. Once decoded, should you receive the message "key blank not allowed" or "bad permutation", the key may not have been positioned properly. As a result the software will not recognize the key blank or the depths read will not correspond with any of the codes in the code series database. If you are sure that the proper card and key blank were used, reposition your key and try again.

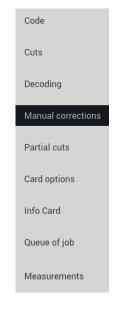
• MANUAL CORRECTIONS: to enter manual adjustments in the relative fields for X axis and Y axis, activate the "Use corrections" flag, tap "Save" and then "Close".

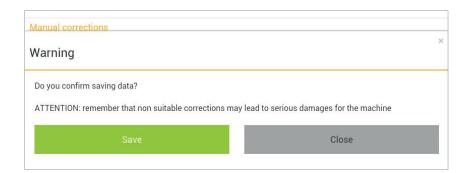
Adjustments: from -30 to +30 hundredths of mm (+/- 118 thousandths of an inch)

Close the window after it has shown an OK message.

An icon Manual corrections 🛕 indicates when the manual adjustment is active.

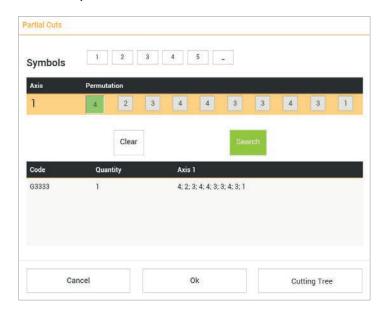






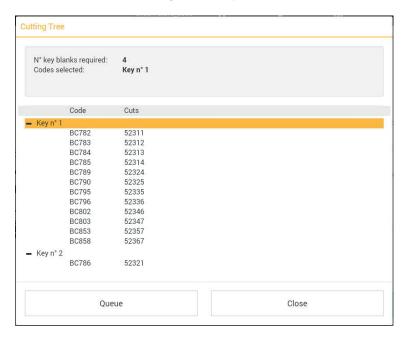
Confirm with "Save".

• PARTIAL CUTS: used to make a search for correspondence with the code table (if applicable): enter the known cuts and tap "Search".



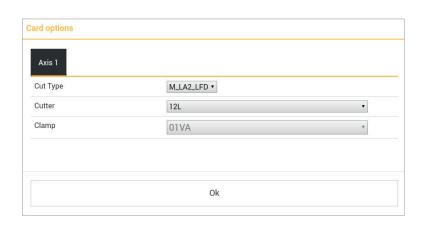


Cutting tree: function accessible only from "Partial cuts" and enabled only for Data cards/Series with code tables available. Tap the "Cutting Tree" key to continue.



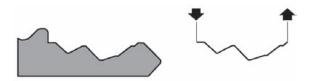
- The list of keys shown in the cutting tree coincides with the list of keys shown in the "Partial cuts" window; however, here the keys are listed according to Groups, Code and Cuts in order to reduce to a minimum the number of key blanks to be used.
- The box at the top of the screen shows the maximum number of key blanks to be used for all the possible cut combinations listed.
- Each Group needs a new key blank to cover all the cut combinations it lists (work down from top). Select the group and/or single code and tap the QUEUE key to place them in the job queue.
- Tap Close, OK, and then Queue of Job.
- The jobs must be carried out in progressive order, starting from the key with the shallowest cuts to those with deeper cuts.

CARD OPTIONS





Cut type: the indicated cut type is:

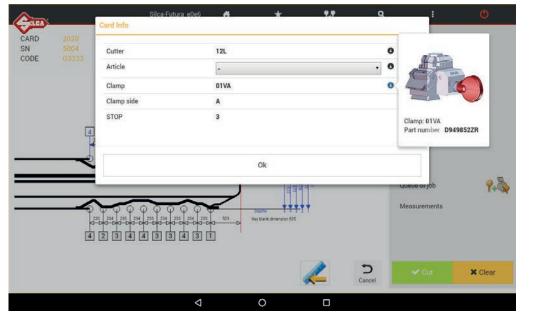


LASER (M_LA2_LFD)

Conjunction of the cutting angles is determined automatically by the machine, allowing cuts to be made with variable angles; this facilitates the smooth entry of the key into the lock, prolonging the working life of the key.

• INFO CARD: views information about the clamp, side and stop to be used, cutter and key blank.

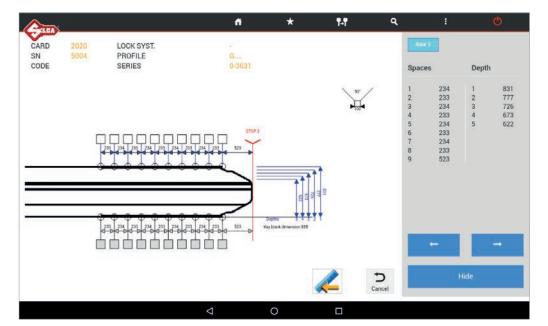
Tap the relevant icons 1 to see images and part code.

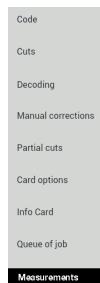




• [Note]: tap "Note" (when shown) to view data card notes, i.e. further specific information relating to the position of the key or an accessory, etc.

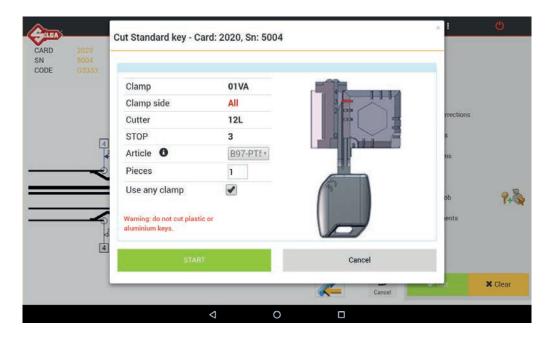
• MEASUREMENTS: view information regarding the measurements of SPACES and DEPTH on the card





1.4 CUTTING VEHICLE keys with STANDARD cuts

To make a cut on the key, tap CUT : information is shown about the position of the key in the clamp.



The following can be set:

Use any clamp: if this function is enabled the key to be cut can be positioned on a clamp side different from default. The function is used to acquire the measurement of the key blank (stem width) in order to adapt cuts to the key blank being used. It is applied automatically only to keys with double symmetrical sides.

ATTENTION: option valid for CUTTING only (NOT DECODING).

NOTE: activating the "Use any clamp" allows the user to clamp the key in any jaw position (i.e. clamping the keys profile on side C or D) when cutting a key by code. Regardless of the jaw position used, the stop position designated by the software must be used. This function is only available when cutting two symmetrical sided standard keys. When this function is enabled cuts cannot be repeated on a key already cut.

Pieces: indicates how many keys you wish to cut.

ATTENTION: anodised aluminium keys, plastic keys or any other key without electrical conductivity CANNOT BE CUT!

1.5 Cutting FLAT / TRACK / TUBULAR keys and CUTTING SPEED

To make a cut on the key, tap CUT : information is shown about the position of the key in the clamp.

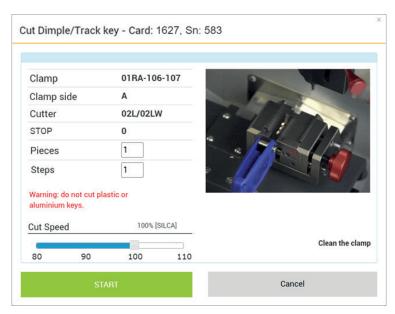
Cutting speed change (relates to carriage advancement).

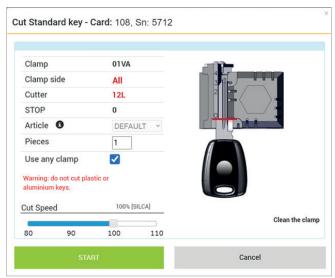
NOTE: the default value set by Silca is 100.

To change the Silca settings, tap the required value:

- With a value of 110 (the carriages will advance at a speed 10% higher than the default setting).
- With a value of 90 or 80 (the carriages will advance 10% or 20% more slowly than the default setting).

Steps: used to edit the default number of passes during key cutting. The value is memorised once it has been edited.





The following can be set:

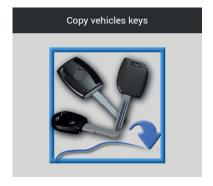
Pieces: indicates how many keys you wish to cut.

Press START to begin the procedure.

ATTENTION: anodised aluminium keys, plastic keys or any other key without electrical conductivity CANNOT BE CUT!

2 COPY VEHICLE KEYS

This function is used to copy vehicle keys with standard or laser track cuts, by means of facilitated searching.



Searches are made by MAKE -> MODEL -> YEAR

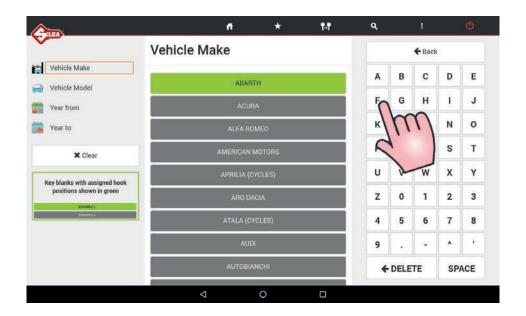
In that order:

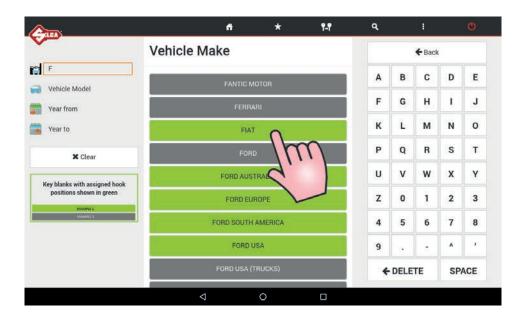
- After confirming the "Make", the "Model" field activates;
- After confirming the "Model", the "Year" field activates.

The search has a filter to speed up results (digit the initial letter of the make or model).

When a field is highlighted in green it means at least one of the keys included has an associated hook position (see Ch.6.3.5).

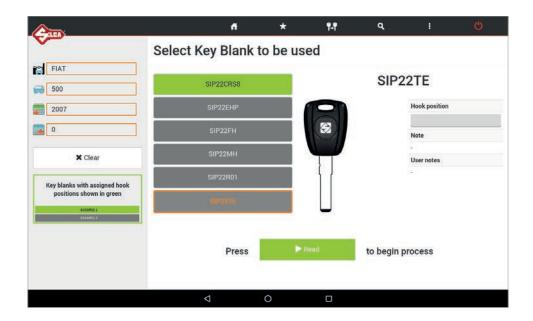
Example 1: FIAT -> 500 -> 2007 key ref. SIP22... TRACK type cutting





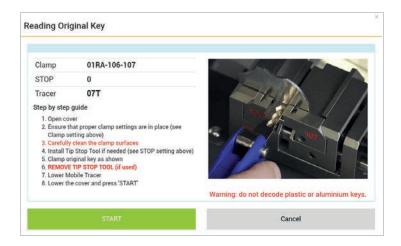






When the READ key has been hit, the sequence of operations is shown, with a drawing of the clamp and jaws to use and the Stop in use for the key in question.

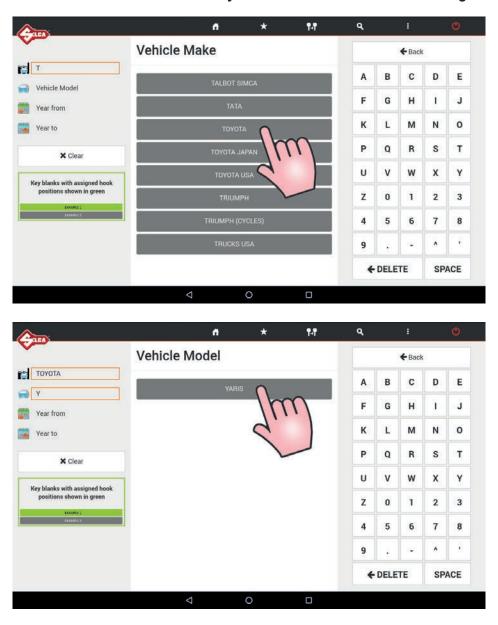
Tap START to continue.

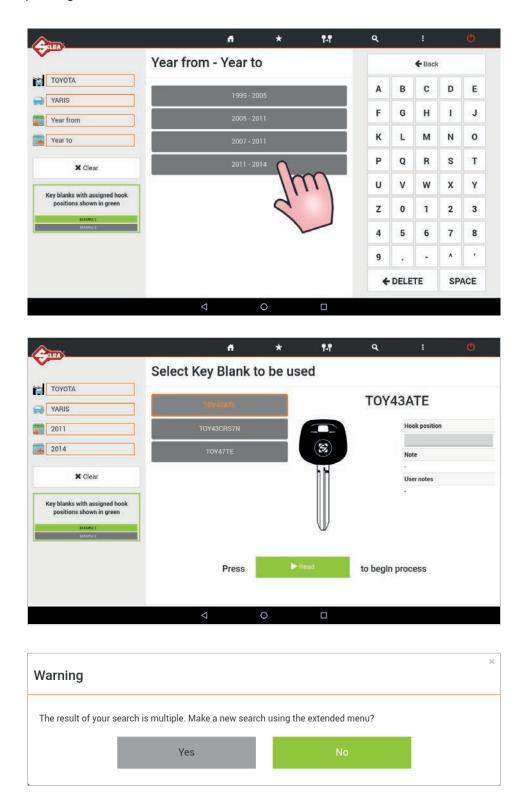






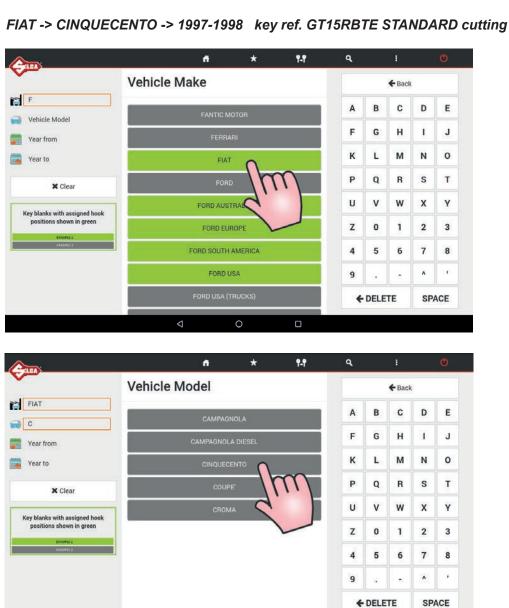
Example 2: TOYOTA -> YARIS -> 2011 key ref. TOY43ATE STANDARD cutting

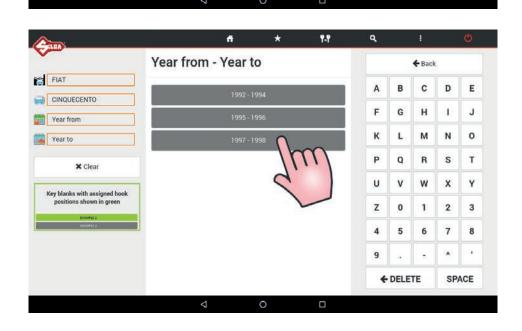


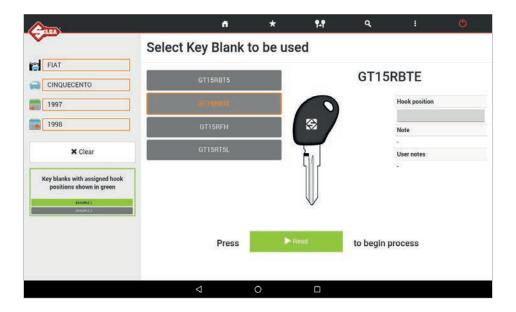


Tap YES to choose one of the proposed cards in the SEARCH menu.

Example 3:

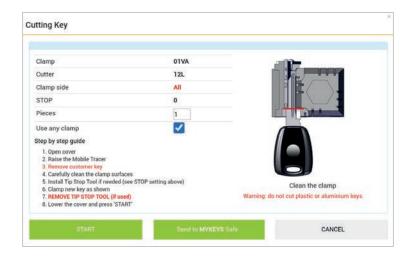






When the READ key has been hit, the sequence of operations is shown, with a drawing of the clamp and side to use, and the Stop in use for the key in question. Tap START to continue.



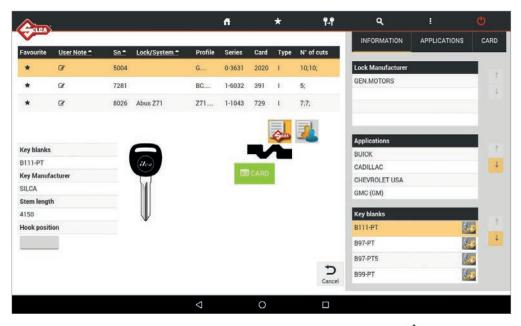




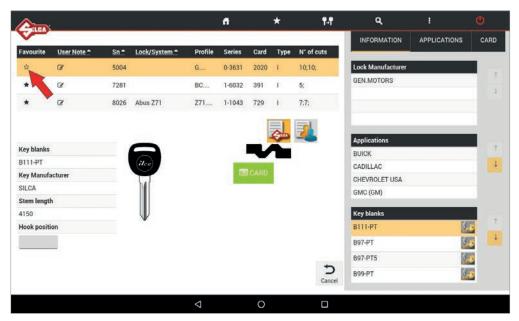
3 FAVORITE'S



The FAVORITES menu contains the data cards that have been selected in the Vehicle keys Search menu. Saving data cards to the favorites menu will eliminate the time spent searching for frequently used cards. For each data card a description can be written in the special field in the "User Note" column.



To select data cards to be included in the Favorite's menu tap the star symbol $\stackrel{\bullet}{\Omega}$ in the first left-hand column of the Search menu; the symbol will be highlighted in black.



To remove a data card in the Favorite's menu, tap the relevant star symbol, which will go back to white.

4 MYKEYS SAFE



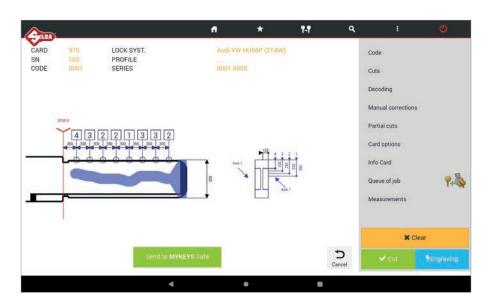
MYKEYS Safe is an innovative service: you can scan and create a digital version of your keys, and get the duplicate wherever you are at one of the authorized partners.

The duplication partners that own a Futura machine can join the MYKEYS Safe service by signing up for a one-off subscription. For more information, contact your Silca or Ilco dealer.

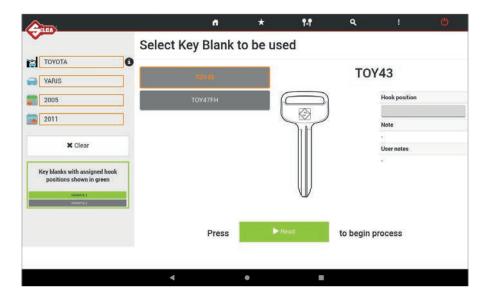
Your vehicle key can be stored on "COPY FROM CUTTING CARD" (Ch.1) and "COPY VEHICLE KEY" (Ch.2).

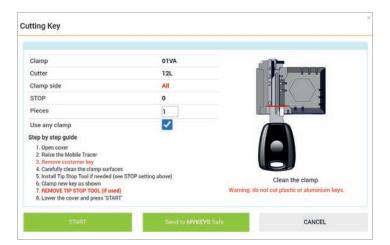
4.1 COPY FROM CARD procedure (Ch.1)

After preparing the cutting card (with Decode, Indirect Code or manually) store the key in MYKEYS Safe Send to MYKEYS Safe



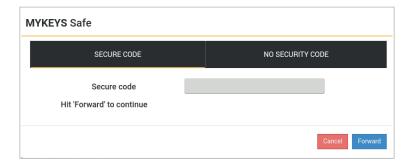
4.2 COPY VEHICLE KEY procedure (Ch.2)





Tap the icon 'Send to MYKEYS Safe' to see two saving methods:

- WITH SECURITY CODE
- WITHOUT SECURITY CODE (recommended)

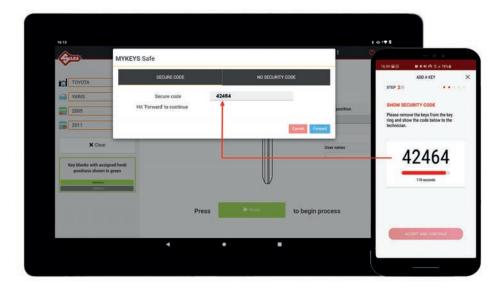


4.2.1 WITH SECURITY CODE



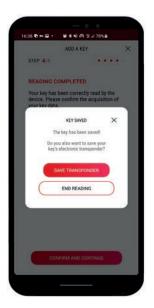
The MYKEYS Safe application is required (download from PlayStore or Applestore).

The MYKEYS Safe app will provide a SECURITY CODE to enter in the screen shown below:



After saving the mechanical key you may also choose to store the Transponder.

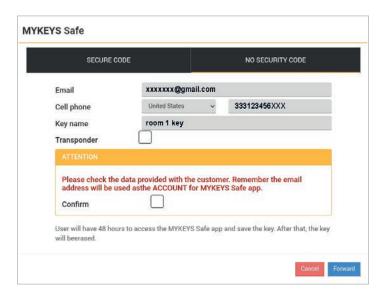
If the user wishes to store the transponder, another security code will be sent for Silca Transponder cloning devices assigned to MYKEYS Safe.



4.2.2 WITHOUT SECURITY CODE

This function is used to store the 'digital key' for a limited time when users are not yet in possession of the MYKEYS Safe application.

The required information can be used for the later retrieval of the stored digital key.



Enter the data required for registering the app.

- E-mail address: to receive notifications and implement registration.

- Cell phone number: to retrieve your key.

- Transponder: tick the box if the key also contains a transponder.

- Confirmation: required

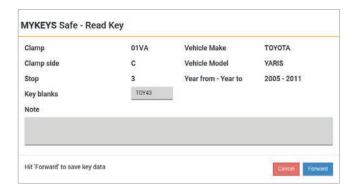
The user will have 48 hours to access the MYKEYS Safe app and retrieve the key. After 48 hours the key will be deleted.

- · A notification will be sent to the given e-mail address every 24 hours until the key is deleted.
- · Use the given e-mail address to register the APP.
- The given telephone number will be used to retrieve the key.

After entering the data, fill in the info module to complete the storage operation.

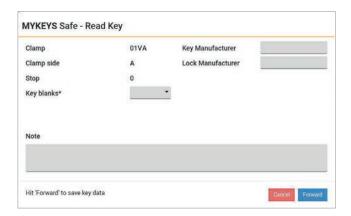
The following modules are available, according to the storage method used:

COPY FROM ORIGINAL - VEHICLE



Clamp: 01VA
Clamp side: default
Stop: default
Vehicle Make: default
Vehicle Model: default
Year from - Year to: default
Key blank: default
Note: optional

COPY FROM CUTTING CARD

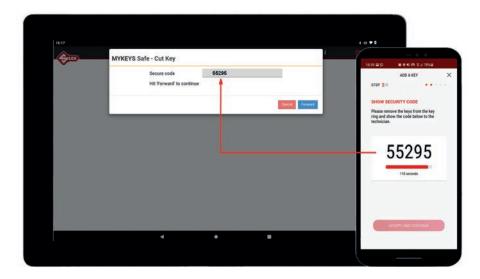


Clamp: default
Clamp side: default
Stop: default
Key blank: select
Key Manufacturer: optional
Lock Manufacturer: optional
Note: optional

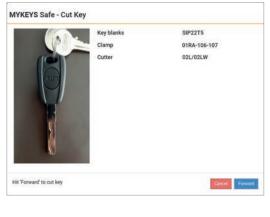
4.3 COPYING KEYS WITH MYKEYS SAFE

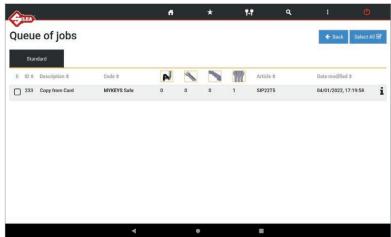


When activating the MYKEYS Safe function a SECURITY CODE will be required in order to cut a key.



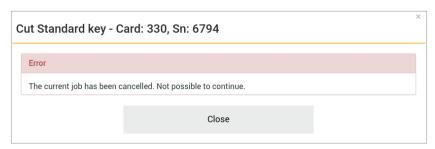
VEHICLE KEYS:





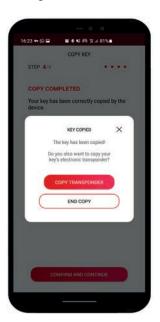
After confirmation, the machine will show the details of the key to be cut; press 'Forward' to send the job to the MYKEYS Safe job queue (Ch.5.2).

As opposed to a standard job queue (Ch.5.1) the MYKEYS Safe job queue can only be used once. An error message appears if a second attempt is made:



The user (owner of the APP) will receive notification when the key has been copied.

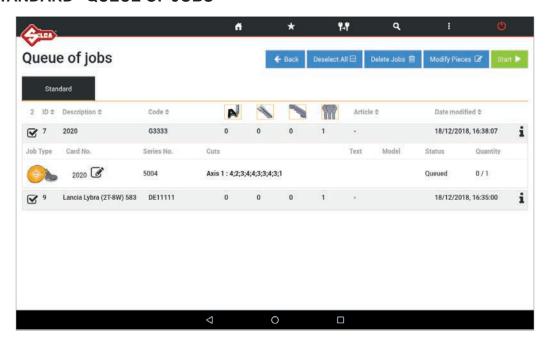
At the end of the cutting operation for a mechanical key, the user may wish to make a copy of the transponder by pressing 'COPY TRANSPONDER' in the MYKEYS Safe app. In this case the user will receive a security code for Silca transponder cloning devices assigned to MYKEYS Safe.



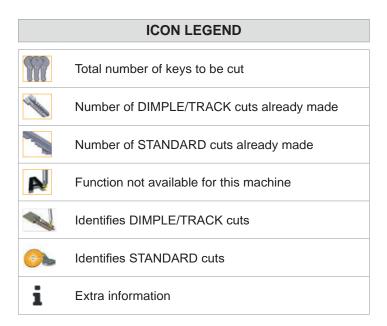
5 QUEUE OF JOBS

The "Queue of Jobs" collects all the jobs (the keys) the user prefers to do later. See on page 14 how to move a job in this "Queue of Jobs".

5.1 "STANDARD" QUEUE OF JOBS

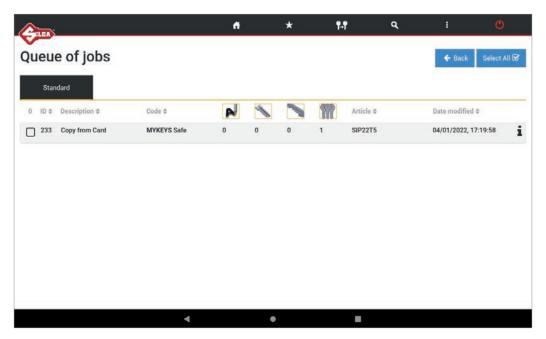


- Select one or more jobs using the "Select All" button, or tap the 📝 box.
- To see other job details, tap the single row.
- To delete the selected jobs, tap "Delete Jobs".
- To edit the number of keys to be cut in the selected jobs, tap "Modify Pieces".
- To start cutting the selected jobs, tap "Start".

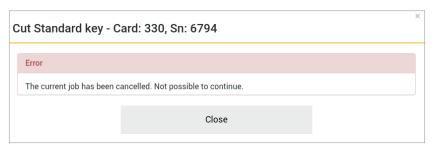


5.2 "MYKEYS Safe" QUEUE OF JOBS"

See Ch.4 MYKEYS SAFE.



As opposed to a standard job queue, the MYKEYS Safe job queue can only be used once. An error message appears if a second attempt is made:

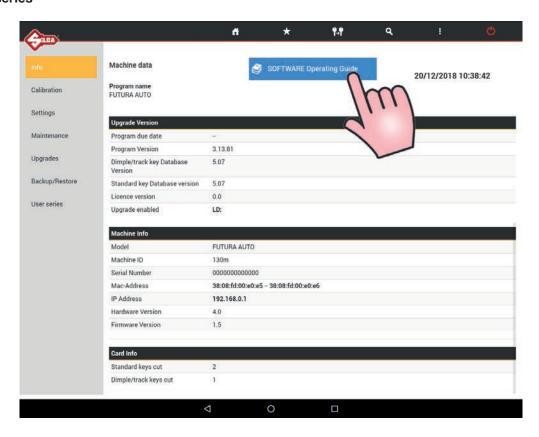


6 OPTIONS



Options contains the following menus:

- Info
- Calibration
- Settings
- Machine maintenance
- Upgrades
- Backup/Restore
- User series



6.1 INFO

This window shows the main data for the Futura AUTO machine (e.g. SW update version, serial number, number of keys cut, etc.).

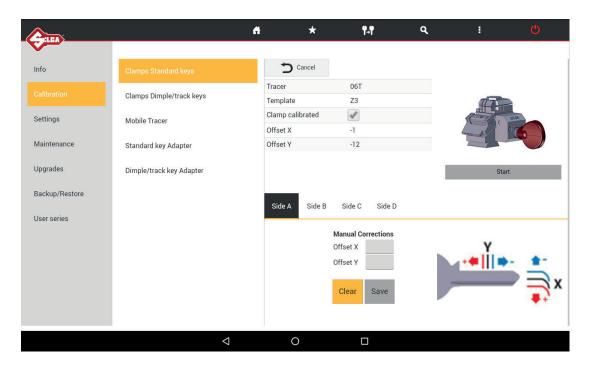
Tap the appropriate icon to view the Futura AUTO "SOFTWARE OPERATING GUIDE".

6.2 CALIBRATION

Calibration includes:

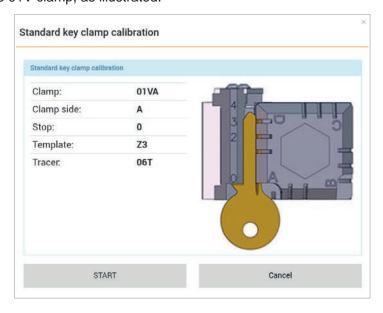
- Clamp Standard keys
- Clamps Dimple/Track keys
- Mobile Tracer
- Standard key Adapter
- Dimple/Track key Adapter

6.2.1 STANDARD key clamp calibration

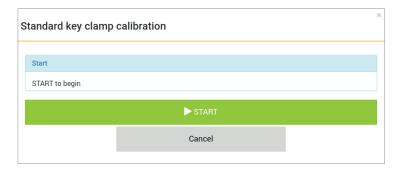


Tap START to begin calibration.

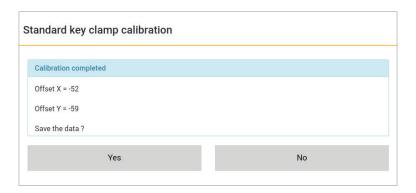
Fit template Z3 into the 01V clamp, as illustrated.



Close the safety shield and press START to continue.



At the end of the operation you are required to save the data entered. Tap "Yes" to confirm.



The 01V clamp is calibrated only for Side A.

Only Manual corrections of Y (spaces) e X (depth) can be entered on sides B, C and D.

Positive value of Y: takes cut closer to stop.

Negative value of Y: takes cut away from stop.

Positive value of X: lowers the cut from the axis.

Negative value of X: raises the cut from the axis.

Adjustments: from -30 to +30 hundredths of mm (+/- 118 thousandths of an inch).

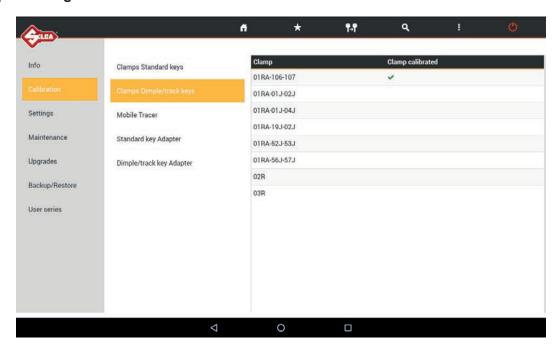
Tap "Save" to confirm.

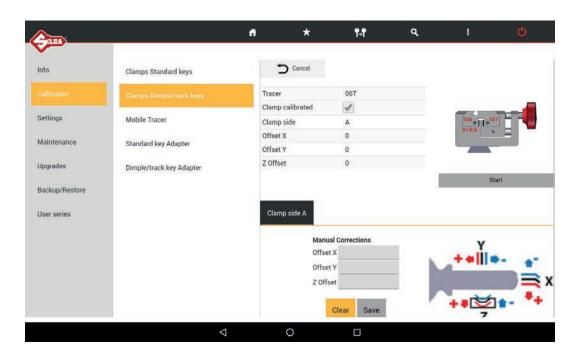
6.2.2 DIMPLE/TRACK keys clamp calibration

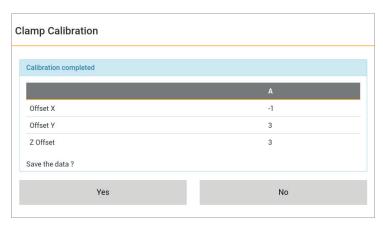
This menu contains a list of standard clamps and options for cutting these types of keys. Select the required clamp and tap START to begin calibration.

Use the 06T tracer for calibrating the clamps.

ATTENTION: to calibrate clamp 01RA with various jaws make sure the jaws are closed completely before proceeding.







At the end of the operation you are required to save the data entered. Tap "Yes" to confirm.

MANUAL CORRECTIONS

Y, X and Z axis manual corrections can be applied if necessary.

Positive value of Y: takes cut closer to stop. Negative value of Y: takes cut away from stop.

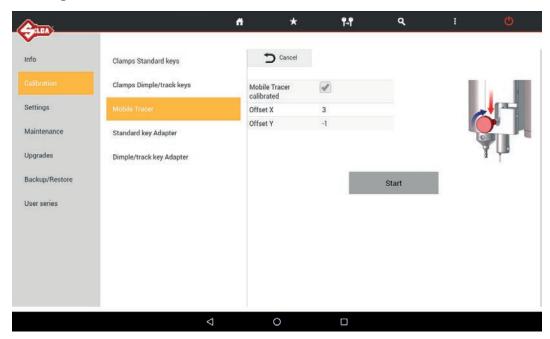
Positive value of X: moves cut to the right of the axis. Negative value of X: moves cut to the left of the axis.

Positive value of *Z*: lowers the cut from the axis. Negative value of *Z*: raises the cut from the axis.

Adjustments: from -30 to +30 hundredths of mm (+/- 118 thousandths of an inch) Tap "Save" to confirm.

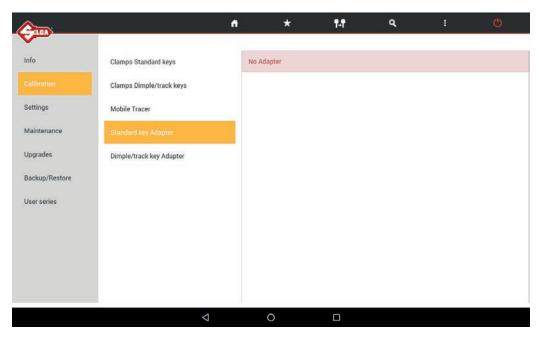
6.2.3 MOBILE TRACER calibration (07T)

ATTENTION: when calibrating the 07T mobile tracer make sure the 106-107 jaws are completely closed before proceeding.



- Lower the 07T mobile tracer and lock in place by turning the knurled knob clockwise.
- Tap START to begin calibration and follow the instructions on the screen.
- At the end of the operation you are required to save the data entered.
- Tap YES to confirm.

6.2.4 STANDARD key Adapter calibration



If any adapter will be add, manually corrections of the Y (spaces) and X (depths) axis will be possible to manage.

Positive value of Y: takes cut closer to stop.

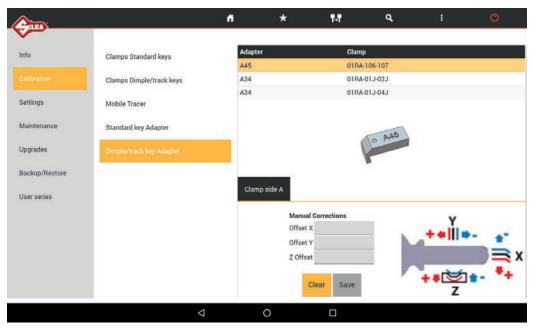
Negative value of Y: takes cut away from stop.

Positive value of X: lowers the cut from the axis.

Negative value of X: raises the cut from the axis.

Adjustments: from -30 to +30 hundredths of mm (+/- 118 thousandths of an inch). Tap "Save" to confirm.

6.2.5 DIMPLE/TRACK keys Adapters calibration



Positive value of Y: takes cut closer to stop.

Negative value of Y: takes cut away from stop.

Positive value of X: moves cut to the right of the axis.

Negative value of X: moves cut to the left of the axis.

Positive value of Z: lowers the cut from the axis.

Negative value of Z: raises the cut from the axis.

Adjustments: from -30 to +30 hundredths of mm) (+/- 118 thousandths of an inch). Tap "Save" to confirm.

6.3 SETTINGS

The Settings menu contains:

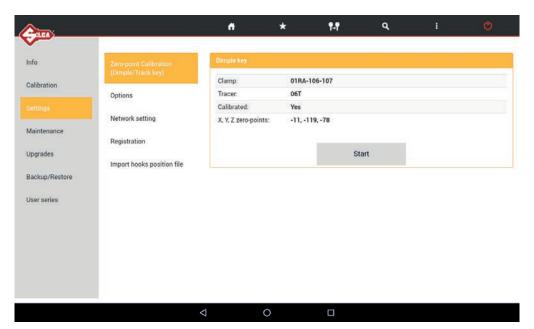
- ZERO-POINT Calibration
- Options
- Network setting
- Registration
- · Import hooks position file

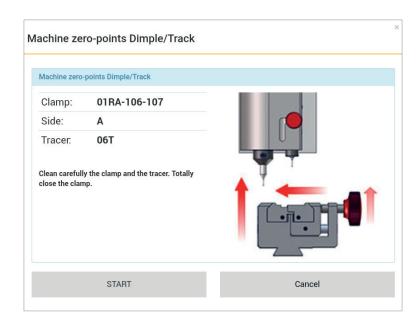
6.3.1 ZERO-POINT Calibration

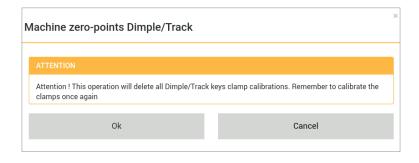
This operation requires the use of the 01RA clamp with 106-107 jaws and the 06T tracer point.

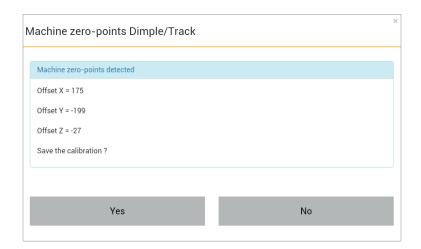
ATTENTION: make sure the jaws are completely closed before starting.

Tap START and follow the instructions on the screen.









At the end of the operation you are required to save the data entered. Tap "Yes" to confirm.

NOTE: Remember to replace the 06T tracer with the proper cutter prior to attempting to cut a key to prevent damaging the 06T tracer.

6.3.2 Options

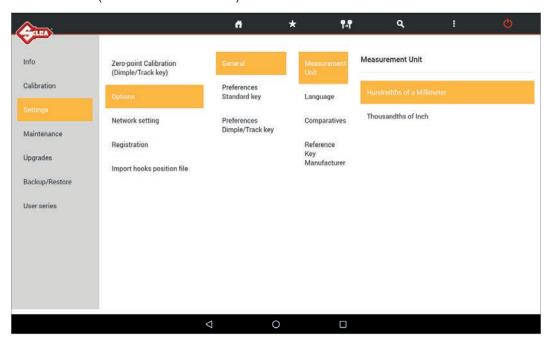
The Options menu contains:

- General
- Preferences STANDARD key
- Preferences DIMPLE/TRACK key

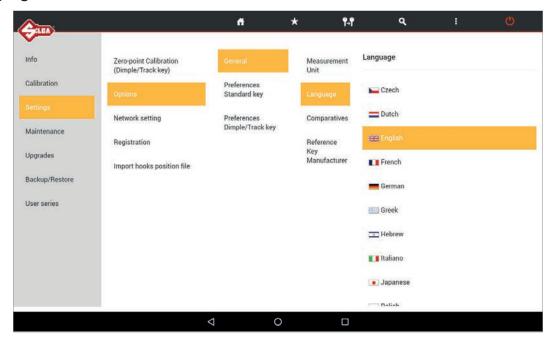
6.3.2.a General

The following parameters can be modified:

• Measurement Unit (millimeters or inches)

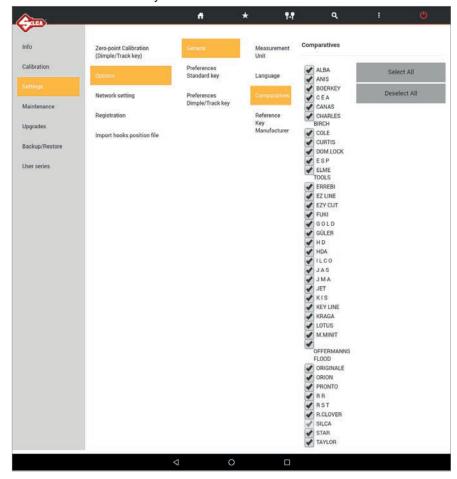


Language



• Comparatives (comparative brands to visualize for key research)

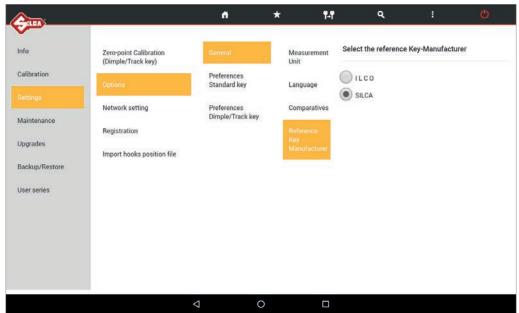
It's possible to pick and/or unpick brands that can be seen after a research of comparatives articles. In the comparative list Silca is activated by default.



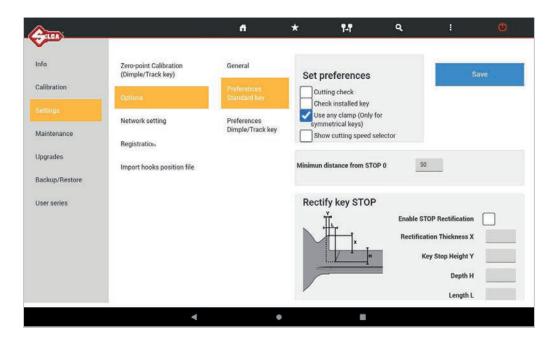
Reference Key Manufacturer

After a key search... the key to be duplicated will always (with exception*) be the Silca reference by default. ILCO can also be set as a reference by default.

* keys that are not produced by Silca (copyright - obsolete - new keys)



6.3.2.b Preferences STANDARD key



Cutting check: in simple terms ...MACS protection (Maximum Adjacent Cut Specification). When enabled this function prevents the machine from accepting user input of direct cuts that would result in a combination of cuts not included in the data cards.

Check installed key: when enabled this function checks whether the second side of the key is properly aligned in the clamp. Any alignment errors (taper) will be offset. This function is used only for keys with cuts on both sides.

Use any clamp: if this function is enabled the key to be cut can be positioned on a clamp side different from default. The function is used to acquire the measurement of the key blank (stem width) in order to adapt cuts to the key blank being used. It is applied automatically only to keys with double symmetrical sides.

ATTENTION: option valid for CUTTING only (NOT DECODING).

Show cutting speed selector: the user can alter the parameters for carriage advancement speed. The default value is 100%.

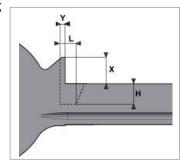
- with a value of 110 (the carriages will advance at a speed 10% higher than the default setting)
- with a value of 90 or 80 (the carriages will advance 10% or 20% more slowly than the default setting).

Rectify key STOP: when enabled adjusts the key stop as per instructions on the screen.

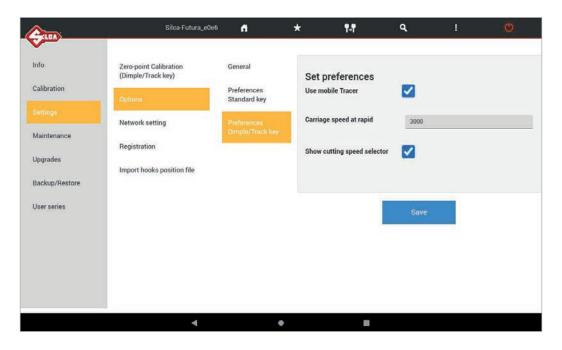
Minimum distance from stop: the range [50-90] (hundredths of a millimeter); 197-354 thousandths of an Inch)

Interval for parameters involved (in hundredths of a millimeter):

X	0 - 99		
Υ	0 - 400		
Н	0 - 400		
L	0 - 500		



6.3.2.c Preferences DIMPLE/TRACK key

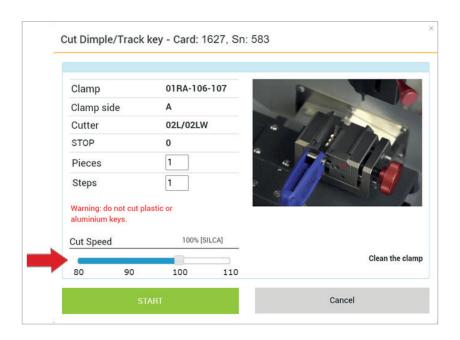


Set preferences: used to enable or disable the use of the 07T mobile tracer. If the field is not selected the 06T tracer is required, to be fitted into the shaft for the decoding operations.

Carriage speed at rapid: used to set the carriage speed for rapid movements; the pre-set value of 3000 is recommended by Silca.

Show cutting speed selector: the user can alter the parameters for carriage advancement speed. The default value is 100%.

- with a value of 110 (the carriages will advance at a speed 10% higher than the default setting)
- with a value of 90 or 80 (the carriages will advance 10% or 20% more slowly than the default setting).



6.3.3 USE

The machine can be set up in one of the 4 modes below:

- 1) DIRECT CONNECTION through Wi-Fi (factory configuration)
- 2) ETHERNET with connection to LAN and router (to connect the machine to the internet)
- 3) TETHERING USB (for connecting tablet and machine via cable)
- 4) WI-FI-CONNECTION (to connect the machine to the internet)

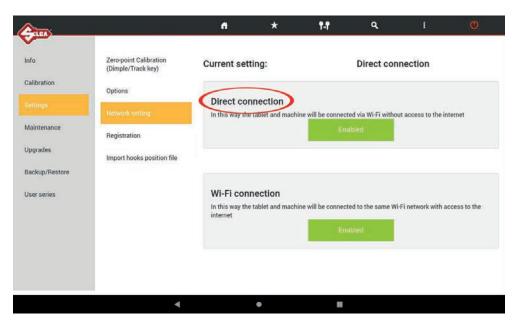
MODE	ACCESS TO INTERNET	TABLET - MACHINE Connection	Recommended
DIRECT CONNECTION	NO	Wi-Fi	YES
ETHERNET with connection to LAN	YES via CABLE	Wi-Fi	YES
TETHERING USB	NO	USB cable	YES
WI-FI-CONNECTION	YES via Wi-Fi	Wi-Fi	YES

6.3.3.a DIRECT CONNECTION mode (Wi-Fi connection between machine and Tablet)

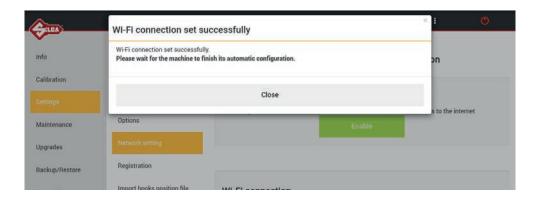
In this mode the Tablet connects directly to the machine. The machine is set on this mode in our workshops.



Fig. 3

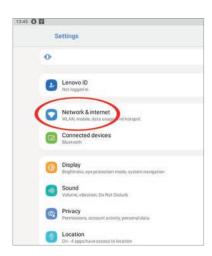


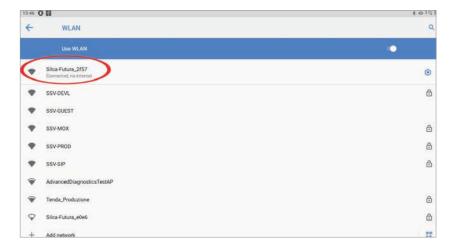




When the machine and Tablet are switched on the connection automatically activates in around two minutes; if not, check the Wi-Fi connection from your Tablet to see if the machine is included in the Wi-Fi (WLAN) networks that are found; the machine will appear as **Silca-Futura_....**







If it is not connected pick "Silca-Futura_..." and input the password which correspond to the machine serial number (made up of 13 numbers).



The option to change the Wi-Fi channel is used in cases when the (point to point) communication cannot be properly connected since there are too many devices tuned to the same channel.

It also permits the user to adapt to the rules and restrictions of Wi-Fi channel use in their country.

To change the channel one must first be connected, select the new channel and then reboot the machine.



6.3.3.b ETHERNET with connection to LAN and router

To connect the Futura AUTO machine to the internet through your LAN:

- Set the machine on DIRECT CONNECTION and connect the tablet in Wi-Fi to the machine (factory configuration).
- Connect your LAN ethernet cable to the machine (Fig. 4).

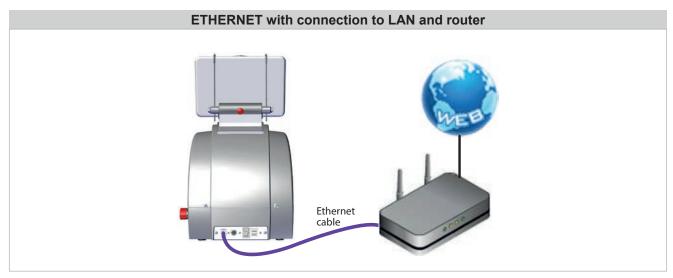


Fig. 4

6.3.3.c TETHERING USB mode - PERMANENTLY ENABLED USB TETHERING

USB TETHERING

This method is used to connect the machine to a Tablet by means of a USB cable. Use the power cable provided with the Tablet.

Attention! This control is active and can be selected only if:

- the USB cable is connected to the Tablet and machine (Fig. 5).

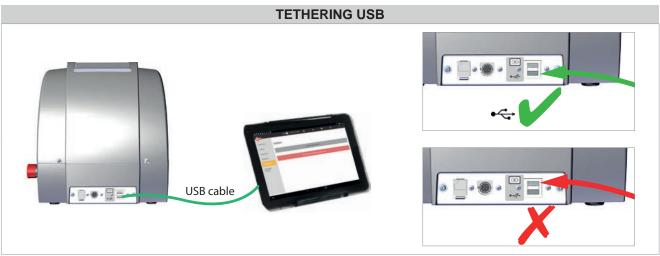


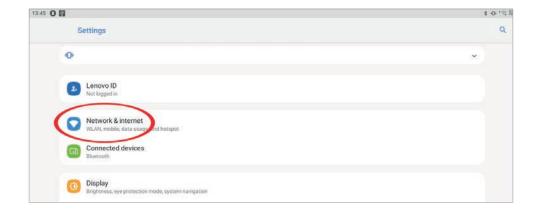
Fig. 5

Go directly to USB TETHERING by selecting the item in the drop-down menu (available on APP version 2.5).





- 1) Connect the USB cable to the machine and Tablet (Fig. 5).
- 2) Access "Settings" O on the Tablet.
- 3) Disable the Wi-Fi (WLAN).
- 4) In the Tablet "Settings" tap the "NETWORK & INTERNET" icon and select the item "Hotspot & Tethering".

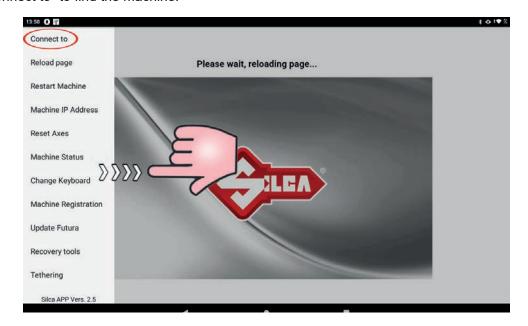




5) Tick "USB Tethering" or select "ON" to enable.

When this item is enabled a green light on the machine will flash for a few seconds. It may take 10-20 seconds for this to happen.

Start the Silca Futura APP and open the drop-down menu. Select "Connect to" to find the machine.



When the machine has been found, hit to select and establish connection.



• PERMANENT USB TETHERING

USB TETHERING can be enabled permanently from Android version 9.0 or later. Follow the instructions in Ch.10 CHANGING TABLETS.

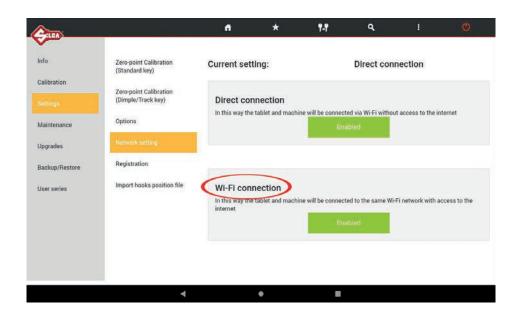
6.3.3.d WI-FI-CONNECTION mode

This mode is useful to connect the tablet and machine, sharing the internet access provided by the router. If this is required we suggest in any case using the "Ethernet with connection to LAN" configuration, as described in Chapter 6.3.3.b as it performs better.



Fig. 6

To access this method of use, go to the Options > Settings menu, select "Network setting" and hit the WI-FI-CONNECTION mode icon.



Perform the following operations to activate this method:

FUTURA AUTO CONNECTION TO A WI-FI ROUTER

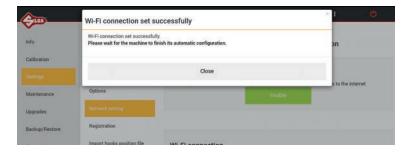
Pick the network to which you want to connect by tapping the SSID field and then inserting the network's password.

Tap "Save" to reboot the machine in WI-FI-CONNECTION. The machine should initially reboot with a flashing white and blue light, to then end with two flashing blue lights that indicate the connection to the local network was successful.

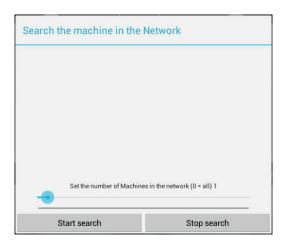
Configuration is automatic and requires approximately one minute. **Attention: wait for the machine to reboot automatically.**

If the inserted password was incorrect the machine would reboot DIRECT CONNECTION mode with an intermitted flashing blue light.





During automatic configuration, the machine reboots and connects Tablet and machine to the same router network. Will appear:



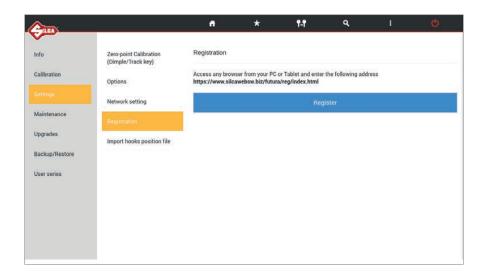


6.3.4 Registration

When a machine is registered, the data are shown on the screen:



The screen below appears if the machine has not been registered:

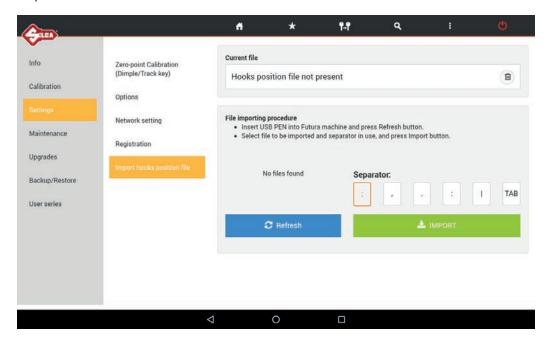


To register a machine, see Ch.7 MACHINE UPDATE and REGISTRATION.



6.3.5 IMPORT HOOKS POSITION FILE

This function is used to import a CSV file containing a list of positions for hooks associated to the Silca keys stocked by a point of sale/key-cutting centre. The file is imported from a USB PEN inserted into the key-cutting machine USB port.



Example of list compilation (Silca key / Separator / Position):

AGB5; A501 AGB8; A502 CS204; B600 CS206; B601

The hook position is highlighted in the special field when carrying out a Search (Fig. 7) and Copy vehicle keys (Fig. 8) operation.

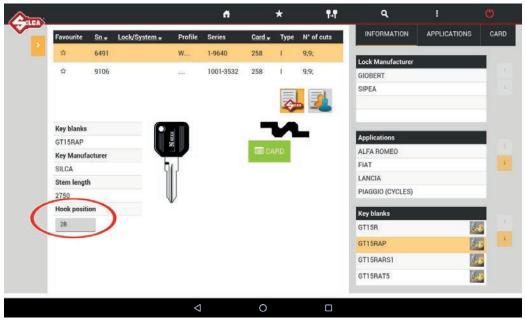


Fig. 7

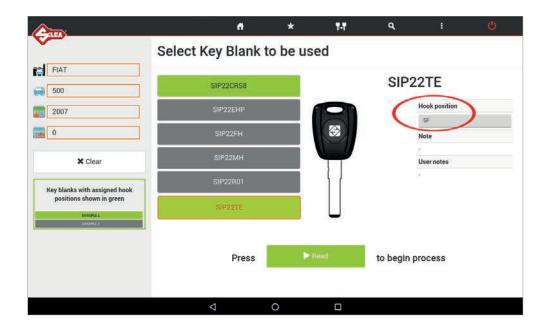


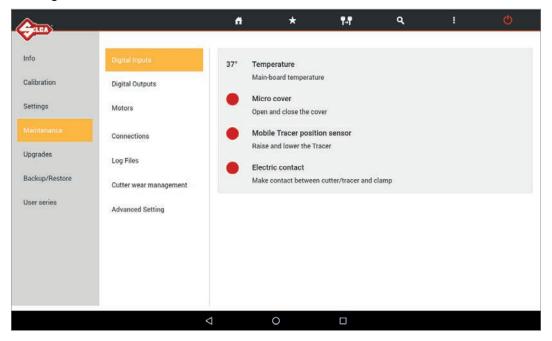
Fig. 8

6.4 MACHINE MAINTENANCE

• Digital Inputs

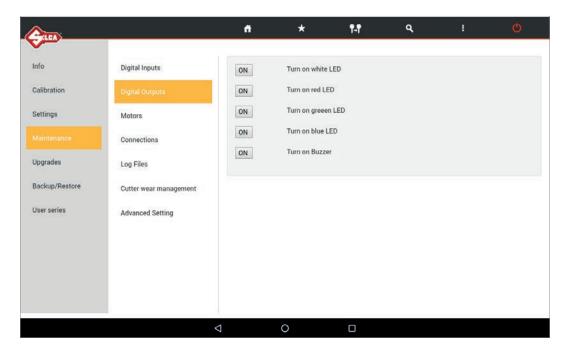
This function is used to test operation of the digital inputs on the electronic board to which they are connected: screen micro, gauge position sensor, electrical contact, etc.

To perform the test carry out the movement described for each item and check that the relative signal changes color from red to green.



• Digital Outputs

This function is used to test operation of the digital outputs on the electronic board and relative devices connected to it. To perform the test tap ON on the screen.



Motors

This function is used to test operation of the 3 step motors for the X, Y and Z axes (at the moment the B axis is not used). To perform the test tap "+" for the axis involved.

Note: The carriage must not reach and hit the end of its run.

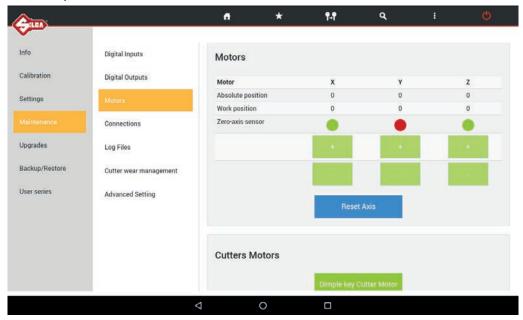
The Reset key homes the axes.

NOTE: tap "-" only when the value shown in the "Working position" field is positive.

Axis clearance sensor: the ring becomes green when activated.

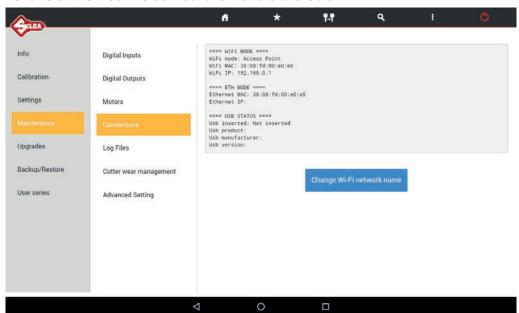
Cutter motors

To perform the test tap the button for the motor to be tested: check that the cutter turns for 5 seconds.



Connections

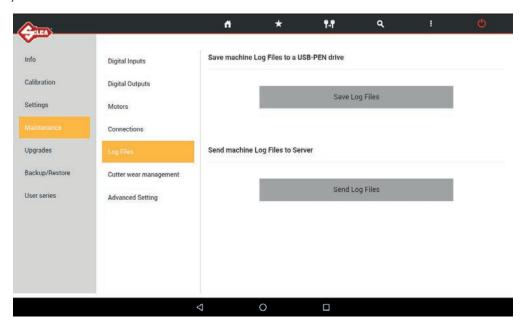
This function shows all the machine connections that are available.



Log Files

The Log file is requested by Silca when on board machine software anomalies are encountered. This function permits to create and save a log file:

- on a USB key connected to the machine's USB port (Fig. 9).
- or directly to Silca's Server (with the Futura AUTO machine connected to a local network) Wi-fi or LAN cable connection).



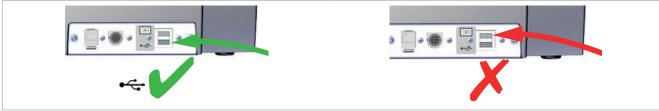


Fig. 9

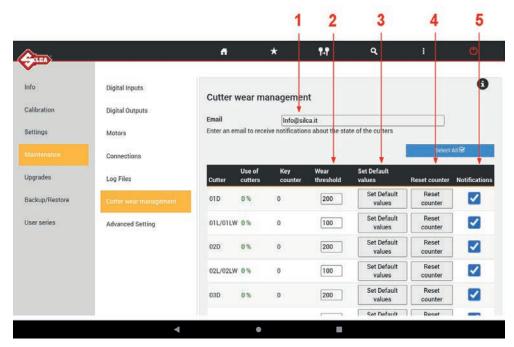
Cutter wear management

The function for managing cutter wear calculates the degree of wear on all Futura cutters by counting the number of keys that have been cut.

A threshold value can be set manually if required; the default value is purely indicative. On reaching 75%, 90% or 100% of the threshold value, the user receives a notification message and an e-mail reminder.

The material the key is made of may significantly condition the duration of a cutter.

ATTENTION: make sure to use the CLEAR COUNT key to zero the counting function when the cutter is replaced.

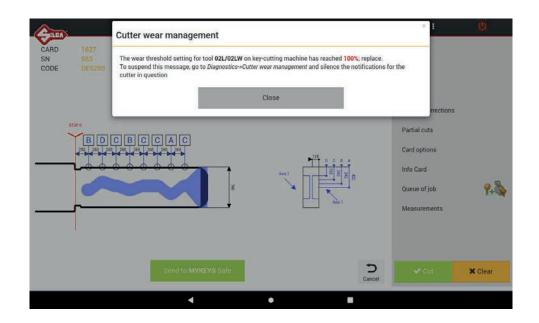


1 - Email: enter e-mail address at which to receive notifications

2 - Wear threshold: edit the value according to the material involved

3 - Set Default values: clears wear threshold4 - Reset counter: zeros key counter

5 - Notifications: tick box to receive notification e-mails

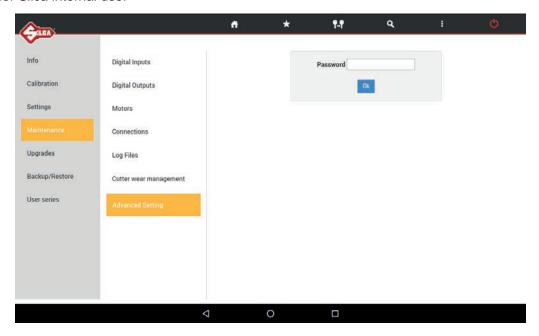


When the cutter wear threshold of 75% - 90% - 100% has been reached, the operator is advised by a pop-up message and an e-mail notification (if the function for receiving notifications has been enabled).



Advanced Setting

Function for Silca internal use.

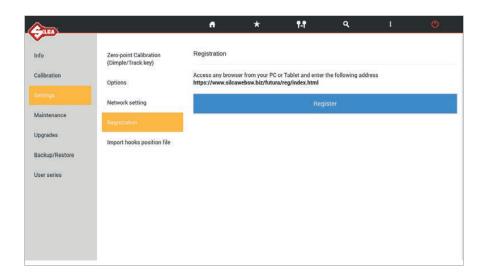


7 MACHINE UPDATE AND REGISTRATION

7.1 MACHINE REGISTRATION

To download the machine software updates you must be registered on the SILCA WEB FUTURA server. **This** operation is required only on first access.

After cutting at least 50 keys you are required to register the machine (only if not yet done) on MY KEYS PRO. COM.



- If the machine is not registered now, the same message will appear every time Futura AUTO is started.
- If the machine is not registered it will not be possible to download software updates.

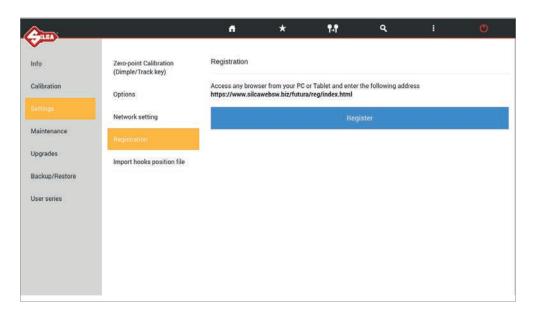
There are 4 ways to register:

- Method 1: Futura AUTO machine with access to the internet
- Method 2: Futura AUTO tablet with access to the internet
- Method 3: Using the Silca Remote Service (SRS) program
- Method 4: Using a browser on a PC/tablet connected to the internet

Method 1

Futura AUTO machine with access to the Internet

- Start the FUTURA program; tap the icon OPTIONS -> Settings -> Registration



Tap 'Register'. The operation will be re-directed to MYKEYS PRO.



Method 2

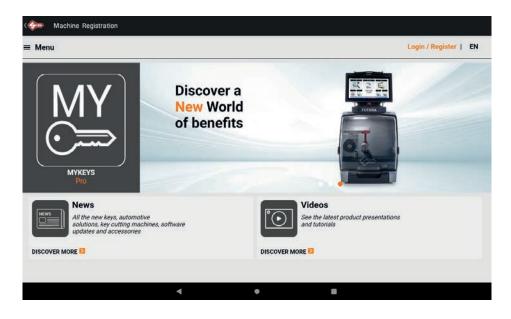
Futura AUTO tablet with access to the internet

NOTE: the Tablet must be taken where there is a Wi-Fi connection with internet access.

Connect a tablet to your local Wi-Fi network and connect to the internet to start the Silca FUTURA APP. Scroll from left to right to open the drop-down menu, as shown below.



Tap "Machine Registration".



Method 3

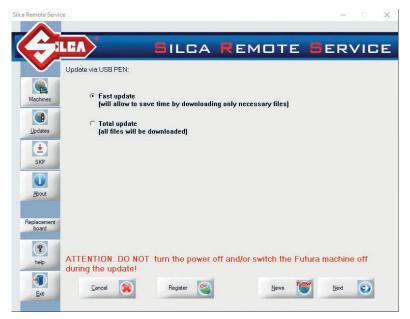
Using the Silca Remote Service (SRS) program

Futura AUTO machine and Tablet connected in DIRECT CONNECTION mode

Install the "Silca Remote Service" program on your PC. The program can be downloaded from the Silca website www.silca.biz, by selecting the menu PRODUCTS & SOLUTIONS-> SILCA SOFTWARE -> SILCA REMOTE SERVICE (SRS).



- Start the program and select the Futura Auto machine model.



- Select the "Next" button and then "Register": the operation will be re-directed to MYKEYS PRO.



Method 4

Using a browser on a PC/tablet connected to the internet

Access any browser from your PC or Tablet and enter the following address:

MYKEYSPRO.COM

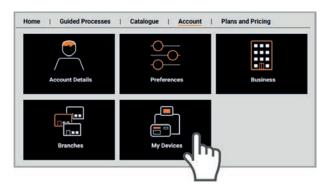


After creating an account on MYKEYS PRO, register the machine as follows:

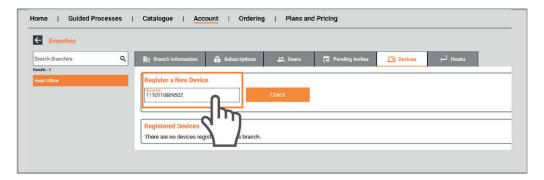
7.2 MACHINE REGISTRATION WITH MYKEYS Pro



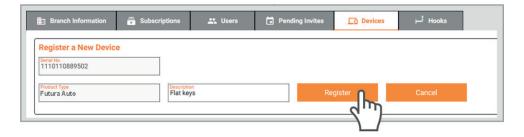
1) Select 'Profile' and then go to 'My Devices".



2) Enter the machine's 13-digit serial number. Tap 'Check' to confirm.



3) MYKEYS Pro recognises the machine automatically. Enter a description and select 'Register'.



4) Use the pen icon (bottom right) to edit the description or the trash can icon to remove machine registration.



7.3 MACHINE SOFTWARE UPDATE

Silca periodically releases Software and Data Updates for the machine. To check for new updates use one of the connection methods available.

ATTENTION: Do not insert a USB modem sticks for the transfer of data in the machine USB port.

NOTE: before starting, check that the machine is registered (shown on the Machine Registration screen on the Tablet scroll from left to right to open the drop-down menu).

Futura AUTO can be updated in one of the following ways:

- 1) Update by TABLET
- 2) Update by USB PEN DRIVE
- 3) Update through WI-FI CONNECTION
- 4) Update by SRS (Silca Remote Service) program

7.3.1 Update by TABLET

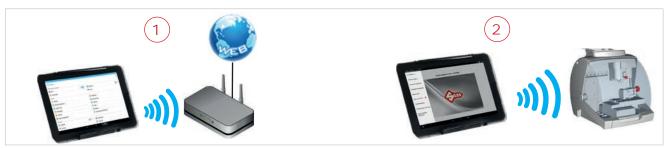


Fig. 10

ATTENTION: Make sure there is no USB PEN in the Futura AUTO machine USB port during updating.

- 1) Take the tablet to a place with a Wi-Fi network and internet connection and connect.
- On the Tablet scroll from left to right to open the drop-down menu
- Tap "Machine update"; the following screen will appear:

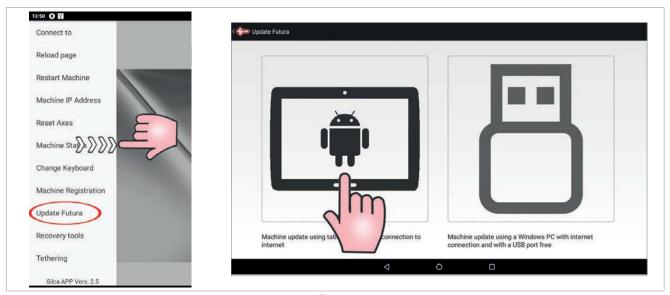


Fig. 11

- Click on the tablet image (Fig. 11) and follow the guided procedure (if the tablet is not connected to a Wi-Fi network you will see a screen from which a Wi-Fi network can be selected).

- When the new update has been downloaded you will be asked to re-start the machine so that the update will be applied automatically.
- Press the "Re-start machine" button and wait a few minutes. The tablet will automatically connect to Futura AUTO.

7.3.2 Update by USB PEN

This update procedure is used to update the Futura AUTO machine using a PC connected to the internet and a USB PEN.

1) Select "Machine update" from the drop-down menu and tap the USB PEN image (Fig. 12). Insert the USB PEN DRIVE into the machine and follow the instructions on the screen.

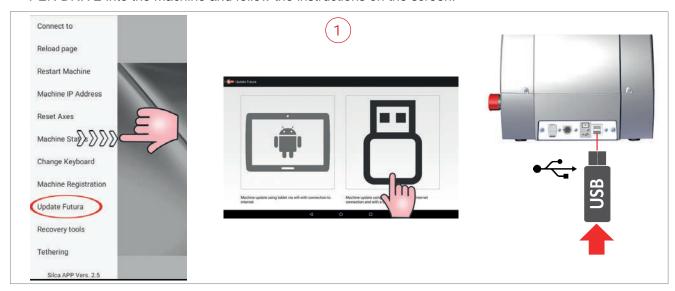


Fig. 12

- 2) Insert the USB PEN DRIVE into a PC connected to the internet (Fig. 14).
 - Open the USB PEN DRIVE, click on the file "FuturaUpgrade.exe" and wait for the "operation successful" message to appear on the screen.
 - Remove the USB PEN DRIVE from the PC (safe hardware removal).



Fig. 13

Insert the USB PEN DRIVE into the special port on Futura AUTO (Fig. 14). Follow the instructions on the screen: tap the "RE-START FUTURA" button to re-start the Futura AUTO machine.

- Wait a few minutes until the white light flashes regularly.
- Remove the USB PEN DRIVE from the machine (without turning it off). Wait for Futura AUTO to re-start (regularly flashing blue light).
- Start the FUTURA APP from your tablet.

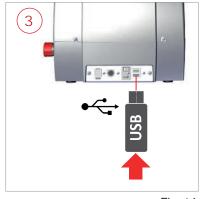


Fig. 14

7.3.3 Update with WI-FI CONNECTION connected to the internet



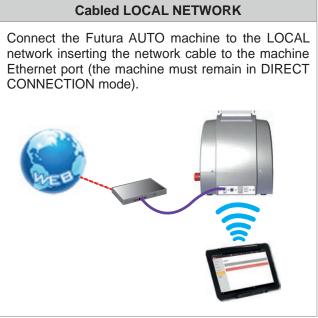


Fig. 15

Fig. 16

ATTENTION: Make sure there is no USB PEN in the Futura AUTO machine USB port during updating.

To upgrade the Futura AUTO machines software in manual mode, follow the steps indicated below.

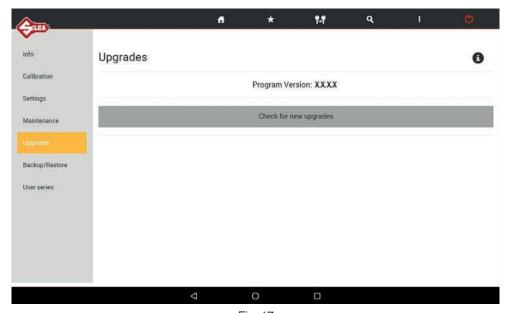


Fig. 17

NOTE: tap to view machine update methods.

- Tap on "Check for Updates" to get a list of what will be downloaded with the update.

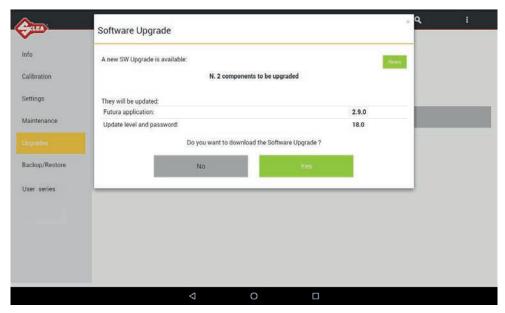


Fig. 18

- Tap "News" to see information about the update to be installed on the machine.
- Tap on "Yes" to start downloading.
- When download is over, you will be asked to restart the Futura AUTO machine (procedure run by the software). Follow the on-screen instructions.

7.3.4 Update with SRS Program (Silca Remote Service)



Fig. 19

Install the "Silca Remote Service" program on your PC. The program can be downloaded from the Silca website www.silca.biz, by selecting PRODUCTS & SOLUTIONS -> SILCA SOFTWARE -> SILCA REMOTE SERVICE (SRS)



The machine can be updated in the following ways:

Method 1 (QUICK update)

QUICK update saves time as it downloads only the files needed.

ATTENTION: you need a blank FAT32/NTFS format USB PEN.

- Fit a blank format FAT32/NTFS USB PEN into the Futura AUTO machine and open the machine software; go to the Diagnostics menu -> Log File and press "Save log file" on the USB PEN.
- Fit the USB PEN into the PC on which the SRS program is installed, go to the SRS program screen regarding **QUICK update** preparation and wait for the update file to be saved on the machine. If the machine is not registered you will be required to register using the special website page.
- Ensure that the Futura AUTO machine is off (red push button) and that the FUTURA APP on the Tablet is closed.
- Fit the USB PEN into the machine USB port (on the rear of the machine , page 68.
- Start the Futura AUTO machine and wait a few minutes until the white light flashes regularly. Remove the USB PEN (without turning off the machine). Wait for Futura AUTO to re-boot (blue light flashing regularly). Start the Futura APP from your Tablet.

ATTENTION: do not unplug or turn off Futura AUTO during updating.

Method 2 (TOTAL update)

TOTAL update will download all the files on the machine

Start the program Silca Remote Service and select the Futura AUTO machine.

ATTENTION: you need a blank FAT32/NTFS format USB PEN.

- Enter the Futura AUTO machine serial number into the SRS program screen regarding update preparation and then fit a USB PEN into the PC. Wait for the **TOTAL update** file to be saved on the USB PEN. If the machine is not registered you will be required to register using the special website page.
- Ensure that the machine is off (red push button) and that the FUTURA APP on your Tablet is closed.
- Fit the USB PEN into the machine USB port (on the rear , page 68).
- Start the Futura AUTO machine and wait a few minutes until the white light flashes regularly. Remove the USB PEN (without turning off the machine). Wait for Futura AUTO to re-boot (blue light flashing regularly). Start the Futura APP from your Tablet.

ATTENTION: do not unplug or turn off Futura AUTO during updating.

7.4 APP UPDATE (Silca.apk and SilcaKeyboard.apk)

After you updated the Futura AUTO machine's software, when the program starts up, you may see the following screen indicating that a new version of the **Silca.apk** or **SilcaKeyboard.apk** is available.



Fig. 20

1) Tap on "Install" and proceed with updating the APP.

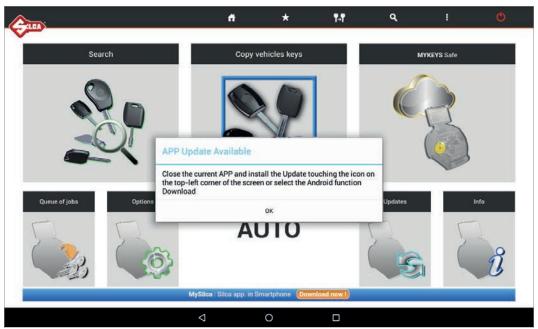


Fig. 21

2) Close the application that is opened by tapping on \square and dragging the Futura APP (see Fig. 22).



Fig. 22

- 3) Scroll up from below to see the following screen and select "Files".
- 4) Select "Download".



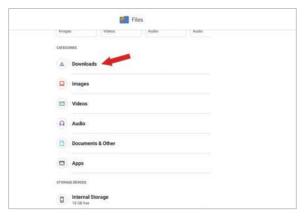


Fig. 23



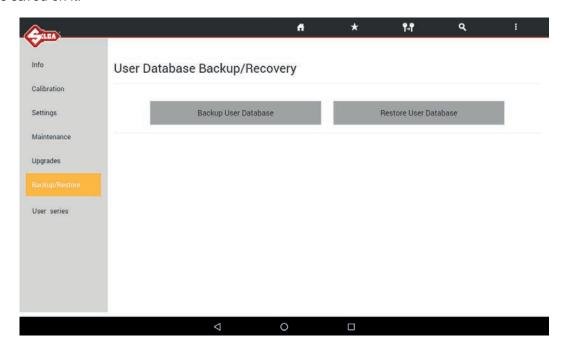


- 5) Select Silca.apk and tap on "Install".
- 6) Wait for the update to finish.
- 7) Do the same for upgrading the **SilcaKeyboard.apk**.

8 BACKUP/RECOVERY

This function permits to create and save a backup (backup User database) file in a USB pen that can be connected the machine's USB port (, page 68).

Also provided is the recovery (Restore User database) function always using the USB pen with the last file that was saved on it.

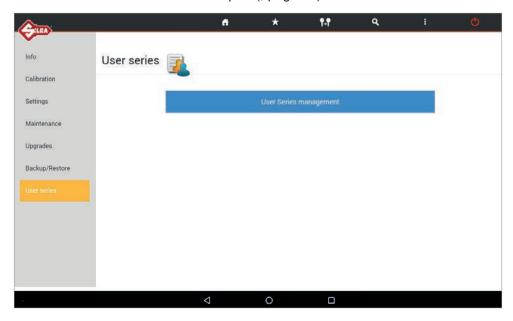


9 USER SERIES

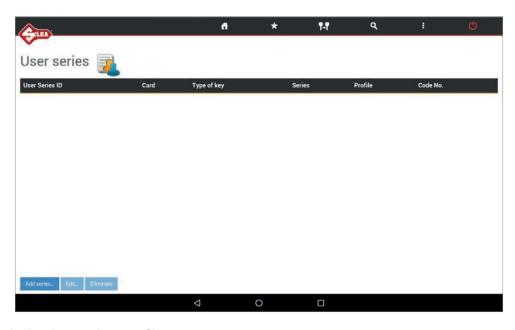
Function accessible from "Options => User Series".

This function is available to the user to import a code table in XML-Keso, CSV, TXT format, associating it to a data card and thereby creating a new user series.

- Use a USB-PEN, FAT32/NTFS format, and copy onto it the file (or files) with the table to be imported. **Note:** the file must not be in a folder.
- Insert the USB-PEN into the Futura AUTO USB port (, page 68).



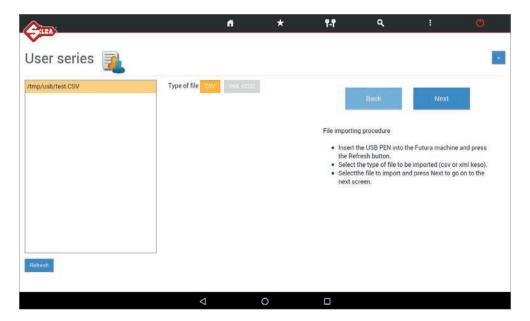
To create the user series, tap "User Series Management".



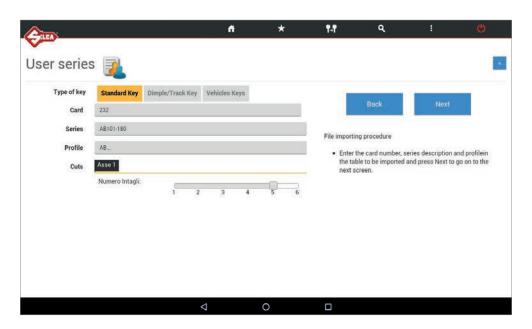
Tap "Add Series" to import the new file.

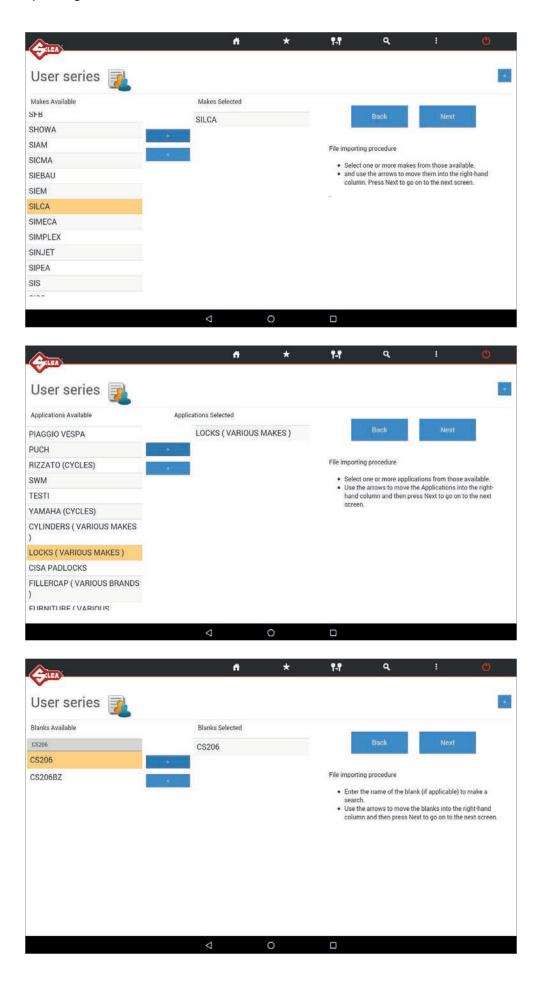
When the User Series exists and is selected/highlighted you can:

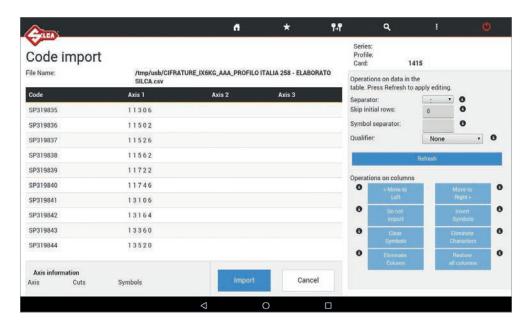
- Tap the "Edit" key to vary certain parameters associated to the series.
- Tap the "Eliminate" key to erase the selected series.



- Follow the instructions on the Tablet page. During guided import you will be required to enter or select certain parameters to associate to the new series (e.g. Data card number, Profile, Series, Makes, Applications and Key blank.
- Tap "Next" to continue.







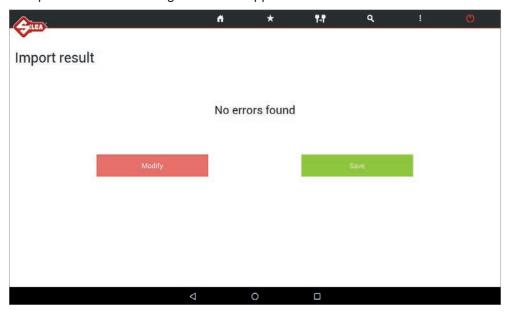
- Tap "Import" to import the file directly without editing.

NOTE: only if necessary, before terminating table import you can edit certain parameters using the menu on the right (Operation on data in the table and/or Operations on columns).

NOTE: tap 📵 to view information about the field.

- After editing the parameters "Operation on data in the table" tap the "Refresh" key".
- After carrying out operations in the columns, tap the "Import" button to start importing the files.

At the end of the operations the following screen will appear:



- Tap "Save" to save the new User series.
- Tap "Modify" to make changes.

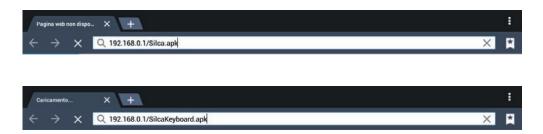
10 CHANGING TABLETS

ATTENTION: TABLET 10.1 ONLY

If a new Tablet is to replace the previous one, download/install the Futura APP. and the customized "Silca Keyboard".

Proceed as follows:

- 1) Connect the tablet <=> FUTURA in DIRECT CONNECTION mode (Ch.6.3.3.a).
- 2) Open the browser CHROME (the CHROME icon is in the APPS page) and enter the following addresses:
 - 192.168.0.1/Silca.apk to download the APP
 - 192.168.0.1/SilcaKeyboard.apk to download the keyboard



3) Scroll up from below to see the following screen and select "Files".



4) Select "Download".



5) Tap on the 2 apps just downloaded for installation.





After you install the new FUTURA APP you should move the Silca FUTURA application icon screen.



1) Scroll up from below to see the following screen:

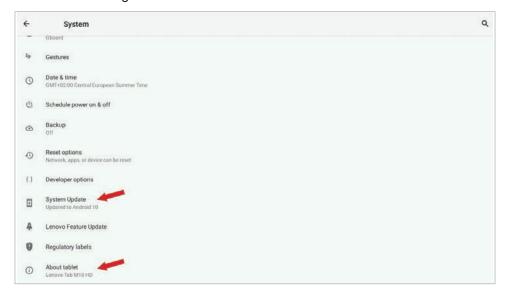




- 2) Search for "Futura" icon
- 3) Tap and hold (keep pressing) the Silca Futura application icon and drag it to the main screen.

10.1 PROCEDURE TO PERMANENTLY ENABLE USB TETHERING (RECOMMENDED)

- 1) Go to SETTINGS -> SYSTEM and check that the **Android** version is **9.0** or later.
- 2) Cliccare su "**About Tablet**" and press repeatedly on "**Build Number**" to release the "**Developer options**". A counter will confirm enabling".





- 3) Access "Developer options" and go to "Default USB Configuration".
- 4) Open the function and select "USB Tethering.

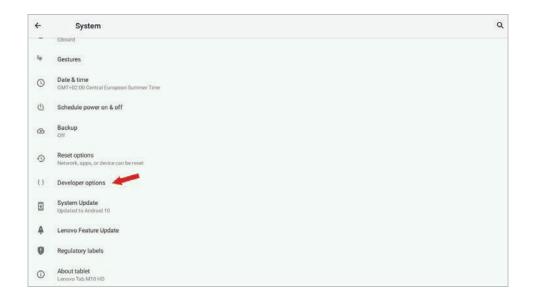






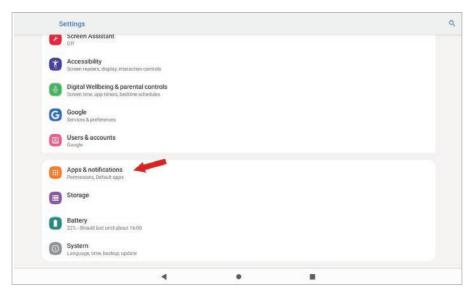


Fig. 24 - Tethering USB

11 FUTURA PROCEDURE TO CLEAR CACHE

Clearing the FUTURA APP Cache is recommended to improve the performance of the FUTURA APP.

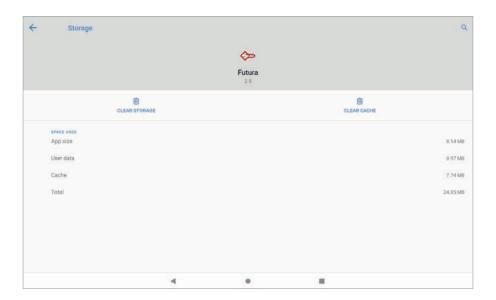
1) Entering the Android Tablet Settings .



2) Tap on "APPS" and then "FUTURA".



3) Enter "Storage" and tap on "CLEAR CACHE".



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On request Silca will provide a DVD with the GPL code included in the FUTURA product.

To make the request contact SILCA at the following address:

SILCA S.p.A.

Via Podgora 20 31020 Vittorio veneto Italy

Email: service@silca.it

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