

Model D159



Fully automatic process
(minimum presence of operator
in front of the machine)



Considerable **reduction in cycle times**
(Case history merely as an example:
Sistema Tesa T-60 dimple + engraving:
5 min with operator, 60 sec
with ProTech)



**The customer can adapt the machine
to needs**



Several types of keys can be managed



Compatible with plastic keys



Upgradable hardware (open platform)



High quality cutting and engraving results



Incorporated **self-control system**



Intuitive software program
and touch screen user interface



Remote after-sales service



Planned services

This configuration comprises only the platform for cutting dimple and laser keys.

The clamp for dimple and laser keys is the tilting type that makes angular cuts of +/- 45°.

The clamp for dimple keys is provided with standard jaws. Different types of keys may require customized jaws.

The marking station is fitted to the axis for dimple and laser keys and use a non-rotating diamond cutter.

Configuration is provided with an automatic tool changer that automates the process even when cutting systems with different cutters are involved.

The accessory can hold up to 6 tools and includes two tool holder cones.

The cut and marked keys are discharged in an orderly manner into different cells according to the code on the key. The automatic XY stores sorts and prepares the keys for the next operations required by the customer.



Model D159 components

1. Base + Feeder + Robots + Control
2. Dimple Customer kit
3. Tilting Jaw
4. Tool Changer
5. Sorter XY
6. Start Up Day Training
7. Service Contract

1. Base + Feeder + Robots + Control

The ProTech is a semi-industrial machine for cutting, engraving and sorting different type of keys. It is particularly indicated to MKS producers or high key volumes locksmiths. The machine is built with high quality components and efficient controlling systems to guarantee the result and the quality of the work. The entire process is fully automatic and managed by the ProTech software provided. Any MKS file or customer code table can be imported and managed by the software. ProTech is a modular platform that can be tailored in many parts according to the buyer's request. ProTech is built in compliance with CE regulations.



The ProTech is composed by:

- Basic structure:
 - cabinet trolley,
 - main basement
 - safety cover
 - control panel
 - key robot
 - automatic feeder
 - ethernet switch
- Dimple key station and engraving (fixed or tilting vise)
- Tool changer (automatic or manual)
- Key sorter (automatic XY, slider box)
- Customer kit (dimple and flat jaws)

2. Dimple Customer kit

The **dimple station** permits the cutting of dimple or laser keys either with key-head stop or tip stop. The engraving station is included. Buyers can choose on two different type of vises, fixed or tilting (+/- 45°) for angle cut.

3. Tilting Jaw

The **tilting vise** permits the clamping of the dimple/laser keys required. The self-centering closure is pneumatically assured. The vise has two clamping positions, in the first one it tightens the key for flat cuts and in the second one it tightens the key for back cuts. It permits angle cut through the automatic moving to +/- 45°.

Fixed and tilting vises require the customer kit (dedicated jaws for the customers' key systems). The customer kit will be identified with reference to the key systems used. Different key profiles and dimensions may require different customer kit (jaws). The buyer is requested to indicate, in the proper chart, the key systems involved and send to



Silca S.p.a the technical drawing associated to the systems (if available) and some key blanks for testing.

4. Tool Changer

The **automatic tool changer** is an optional accessory that permits the automatic changing of cutters / tracers during the working process. It includes as standard nr 2 cutter holders.

5. Sorter XY

XY sorter permits to automatically collect and ordinate the keys cut according to their cutting code. The sorter is formed by a key gripper that clamps and places the key cut in the selected box. The key tray can be tailored to 12 or 42 boxes. The number of boxes required is set up through the PC software.

6. Start Up Day Training

Installation time and training (one day).

7. Service Contract

Download the full agreement (Service Contract) from the ProTech Site.

MACHINE PARAMETERS

DIMENSIONS

Overall dimensions:

900 x 1800 x 800 mm (W x H x D)
35,43 x 70,86 x 31,49 in (W x H x D)

Overall dimensions with PC:

1050 x 1800 x 800 mm (W x H x D)
41,33 x 70,86 x 31,49 in (W x H x D)

WEIGHT

Gross weight: 450 Kg (full version M159)
Net weight: 330 Kg (full version M159)

POWER SUPPLY

Single phase: 200 / 240 Volts
Frequency: 50 Hz
Energy consumption: 1 KW

AIR COMPRESSOR

Suggested air: 300 l/min
Capacity: 50 L
Pressure: 10 bar

TOLLERANCE

ProTech cutting tolerances on three axes (X, Y, Z controlled by encoder) +/- 0,03 mm

