

## Model M059



**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 integrates the cutting platform for dimple and laser keys with that for cutting flat keys. The clamp for dimple and laser keys is the tilting type that makes angular cuts of +/- 45°.

Both clamps for dimple and flat keys are supplied with standard jaws. It may be necessary to use customized jaws to duplicate different types of keys.

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

1. Marking for keys with combined cutting, dimple and flat, is performed in the dimple station.

2. Marking for flat keys is performed on the specific cutting station with the aid of a dedicated accessory that uses two non-rotating diamond cutters for engraving both sides of the key, if required.

Tool change is manual and managed by the operator according to the operations required. The configuration includes a tool holder cone.

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 M059 components

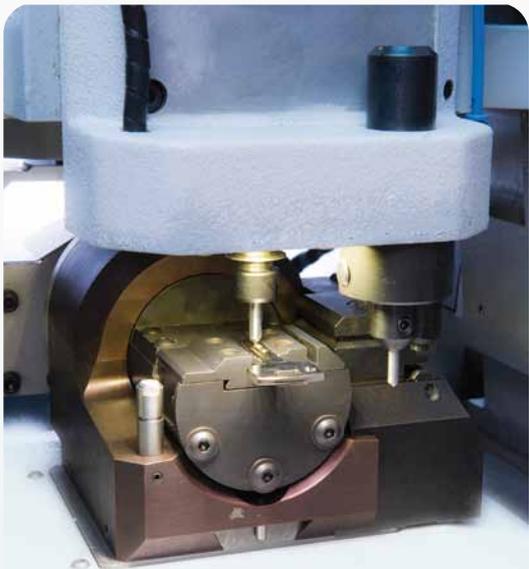
1. Base + Feeder + Robots + Control
2. Dimple + Flat Customer kit
3. Tilting Jaw
4. Sorter XY
5. Start Up Day Training
6. Service Contract

#### 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)
- Flat key station and engraving
- Sorter XY
- Customer kit (dimple and flat jaws)



#### 2. Dimple + Flat 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.

The **flat station** permits the cutting of flat cylinder keys either with single or double side cut. The engraving station is included.



#### 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. 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.

#### 5. Start Up Day Training

Installation time and training (one day).

#### 6. 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

