

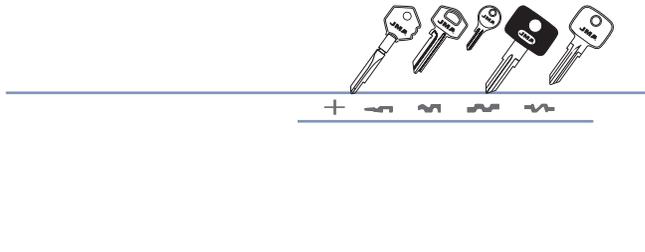
THE EXPERIENCE OF A MARKET LEADER

*The best solutions
for copying every kind of key existing on the market*



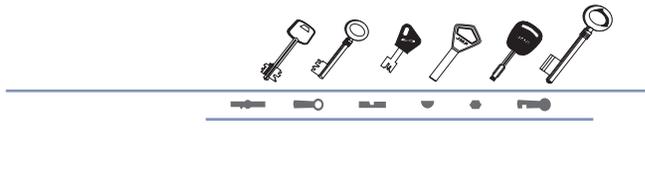
KEY CUTTING
MACHINES

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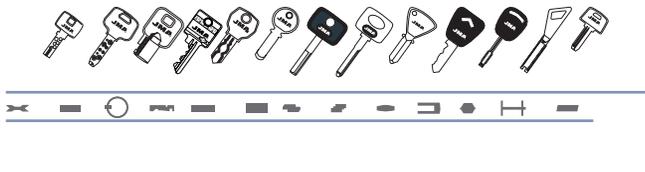


MECHANIC MACHINES

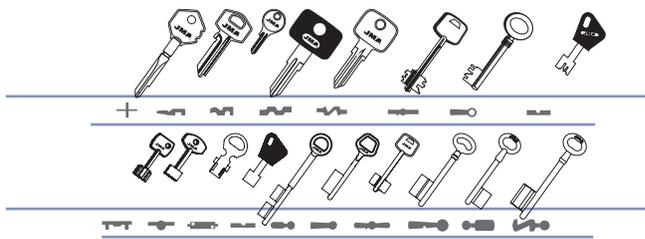
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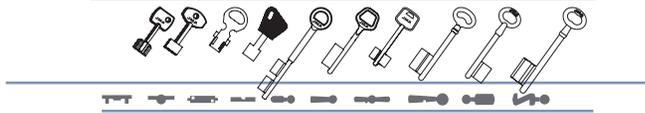
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KEY CUTTING MACHINES VIENNA

Semi automatic duplicating machine for flat keys for cylinder, automobile locks, cruciform and special keys.

CODE MOTOR

VIENNA (single phase)
220 V. 50 Hz. -
0,18 Kw. - 1350 r.p.m.
1,7 Amp.

(optional)
110V. - 60 Hz -
0,18 Kw. - 1700 r.p.m.
3,14 Amp.

TECHNICAL DATA

Cutter HSS, 80 x 16 x 5
(High speed steel)
Clamps Steel, with 4 clamping sides.
Width 430 mm.
Height 280 mm.
Depth 420 mm.
Weight 27 Kg.
Cutter speed 612 r.p.m.
Effective travel Eje X=53 mm.
Lighting DIODOS.
Transmission Ribbed belts with self-tightening system.
Displacement On self-lubricated bearings.

OPTIONAL

4 - Face clamp SF (Portugal).

SAFETY

Start switch on the back.
Slide release button for key cutting.
Automatic stop removal system.
Ample cutter protection.
Brush area protection.
Swarf collection tray.

Height 280 mm.



Depth 420 mm.



1 First machine to incorporate a partial and total key counter. You can control the keys cut on the machine during its life. Helps you keep count of the number of keys when making multiple copies.



2 Has an electronic regulation system that indicates the exact machine regulation point. The display shows the rotation direction of the adjustment wheel.



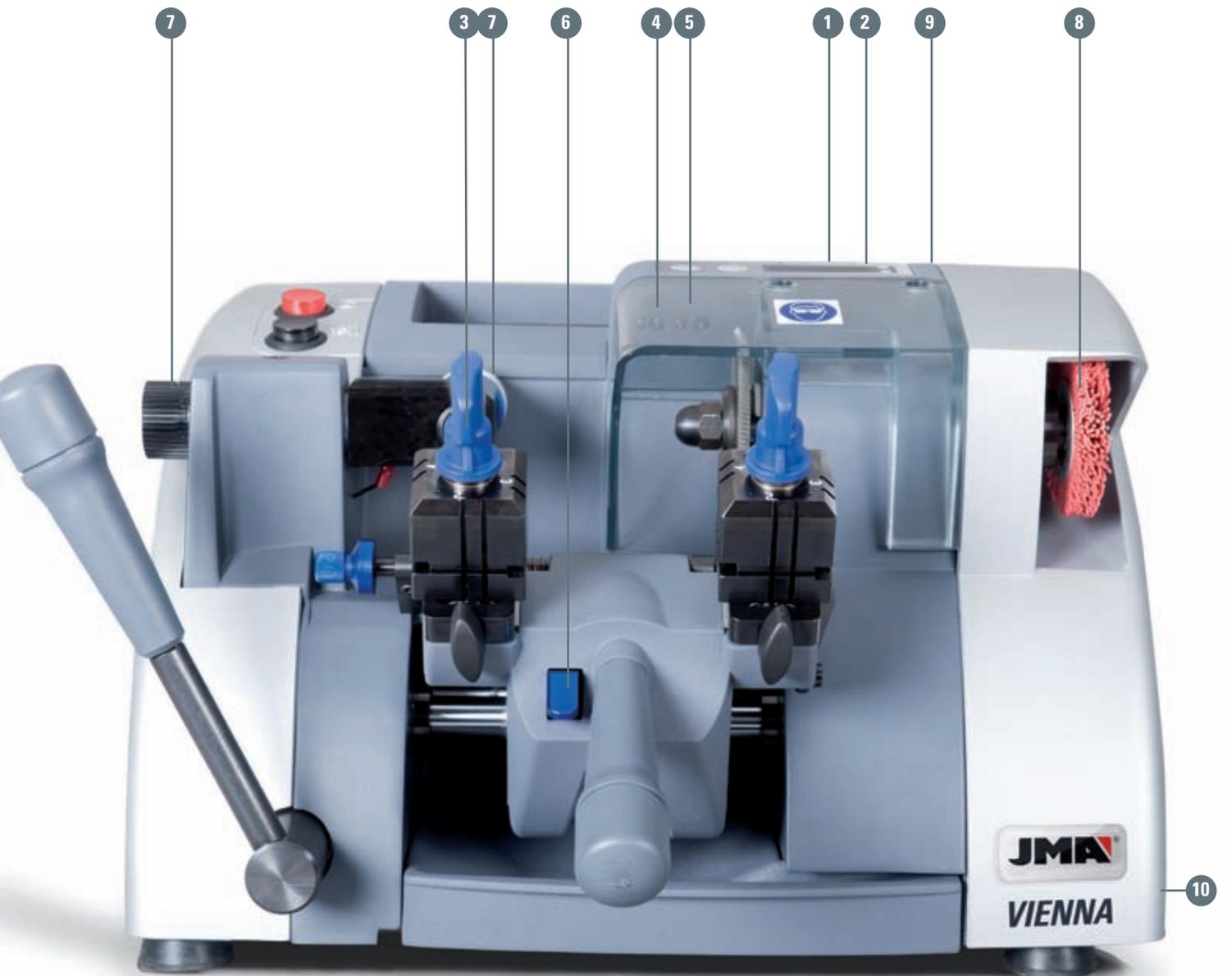
3 New clamp turning system. Compatible with earlier key-cutting machines (Dakota, Titan, Saratoga...).



4 New lighting based on low consumption LED to light the cutting area.



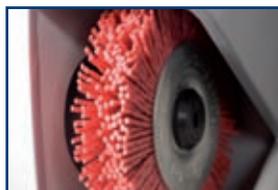
5 Environmentally friendly machine. Light switches off automatically when it is detected that the machine is not being used.



6 Automatic stop removal system, making key cutting quicker.



7 Micrometric depth adjustment and first machine on the market to also incorporate micrometric lateral adjustment.



8 Brush for deburring the keys.



9 Tray for accessories, keys, tools, etc... with easy operator access.



10 Handles for moving the machine.

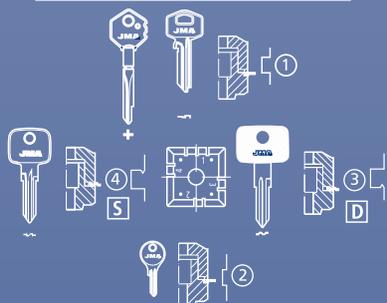
KEY CUTTING MACHINES

DAKOTA EXTRA



Semi automatic duplicating machine for flat keys for cylinder, automobile locks, cruciform and special keys.

NEW DESIGN
MORE POWER AND RESISTANCE



CODE MOTOR

DAKOTA extra (single phase)
230 V. 50 Hz. -
0,18 Kw. - 1350 r.p.m.

DAKOTA extra - 110 (optional single phase)
110 V. - 60 Hz -
0,18 Kw. - 1700 r.p.m.

TECHNICAL DATA

Cutter FP24 (80x5x16-42°)
Width 520 mm.
Height 280 mm.
Depth 245 mm.
Weight 23 Kg.
Speed 530 r.p.m.

OPTIONAL

SOFER jaw



1 4 way hard steel jaws.



2 Tracer point with micrometric adjustment.



3 Tray to collect swarf.
4 Tool storage tray.



5 Brush incorporated.



6 Lamp attachment.



7 Double shaft movement system.

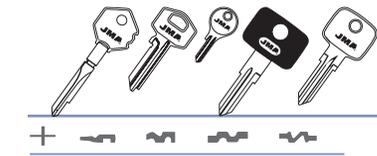


8 Independent brush switch.

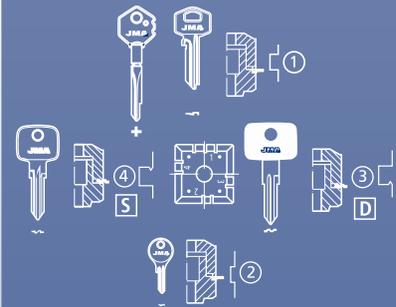
KEY CUTTING MACHINES

TITAN MASTER

Semi automatic duplicating machine for flat keys for cylinder, automobile locks, cruciform and special keys.



NEW DESIGN MORE POWER AND RESISTANCE



CODE MOTOR

TITAN master (single phase)
230 V. 50 Hz -
0,18 Kw. - 1350 rpm

TITAN master (optional single phase)
110 V. - 60 Hz -
110 0,18 Kw. - 1700 rpm

TECHNICAL DATA

Cutter FP24 (80x5x16-42°)
Width 410 mm.
Height 240 mm.
Depth 350 mm.
Weight 23 Kg.
Speed 640 r.p.m.

OPTIONAL

SOFER jaw.



1 4 way hard steel jaws.



2 Tracer point with micrometric adjustment.



3 Brush incorporated.



4 Double shaft movement system.



5 Independent brush switch.



6 Carriage release lever.
7 Tray to collect swarf.



8 Lamp attachment.

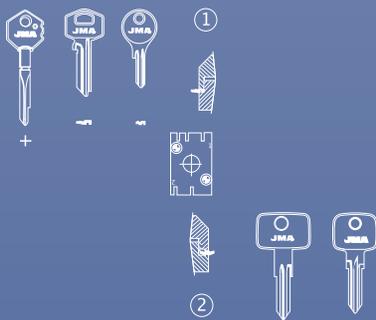
KEY CUTTING MACHINES

TITAN



Semi automatic duplicating machine for flat keys for cylinder, automobile locks, cruciform and special keys.

NEW DESIGN
MORE POWER AND RESISTANCE



CODE MOTOR

TITAN (single phase)
230 V. 50 Hz. -
0,18 Kw. - 1350 r.p.m.

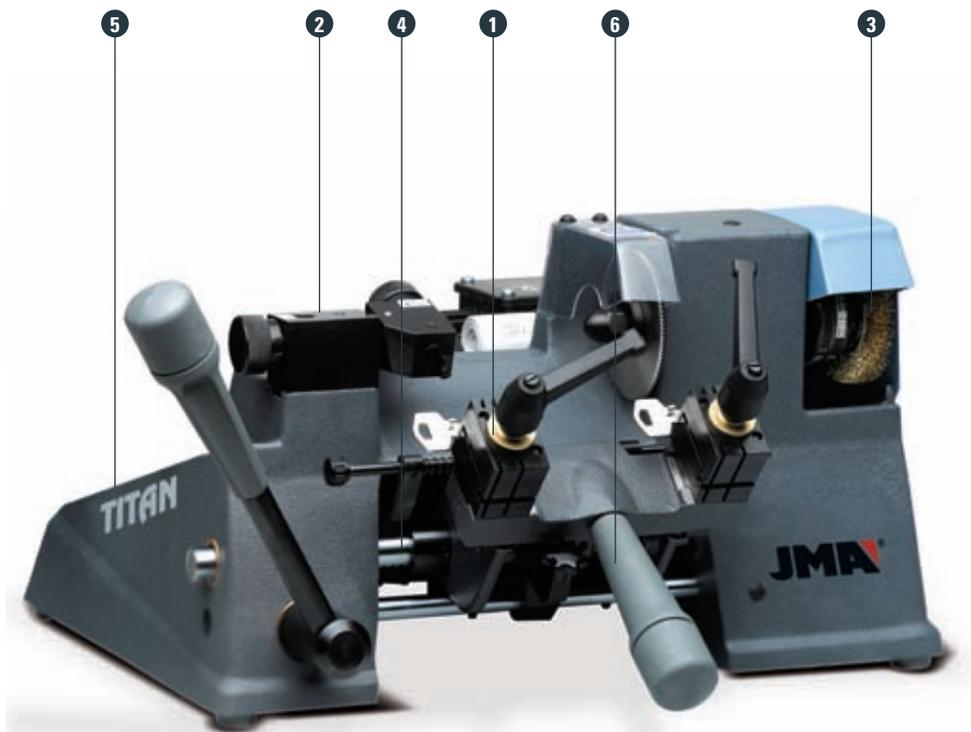
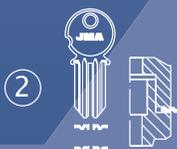
TITAN (optional single phase)
110
110 V. - 60 Hz -
0,18 Kw. - 1700 r.p.m.

TECHNICAL DATA

Cutter FP24 (80x5x16-42°)
Width 410 mm.
Height 240 mm.
Depth 350 mm.
Weight 23 Kg.
Speed 640 r.p.m.

OPTIONAL

SOFER jaw.



1 2 way hard steel jaws.



2 Tracer point with micrometric adjustment.



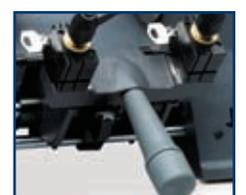
3 Brush incorporated.



4 Double shaft movement system.



5 Independent brush switch.



6 Carriage release lever.

KEY CUTTING MACHINES

ECCO/ECCO PLUS

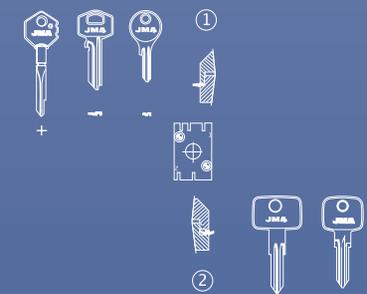
Semi automatic duplicating machine for flat keys for cylinder, automobile locks, cruciform and special keys.

TECHNICAL DATA	ECCO	ECCO PLUS
Cutter	FP11 (63x5x16)	
Width	470 mm.	520mm.
Height	280 mm.	280mm.
Depth	245 mm.	245mm.
Weight	15 Kg.	16 kg.

FEATURES	ECCO	ECCO PLUS
2 ways jaws	•	•
Tracer point with micrometric adjustment	•	•
Protection device	•	•
Brush	•	•
Side lever	•	•
Micro - switch	•	•
Safety fuse fitted	•	•



*Photo shows Ecco Plus



CODE MOTOR

ECCO (single phase)
220 V. 50 Hz. -
0,18 Kw. - 1350 r.p.m.

ECCO 110 (optional single phase)
110 V. - 60 Hz. -
0,18 Kw. - 1700 r.p.m.

ECCO PLUS (single phase)
220 V. 50 Hz. -
0,18 Kw. - 1350 r.p.m.

ECCO PLUS 110 (optional single phase)
110 V. - 60 Hz. -
0,18 Kw. - 1700 r.p.m.

OPTIONAL

SOFER Jaw.



1 2 way hard steel jaws.



2 Tracer point with micrometric adjustment.



3 Protection device.



4 Brush incorporated.



5 Side lever.

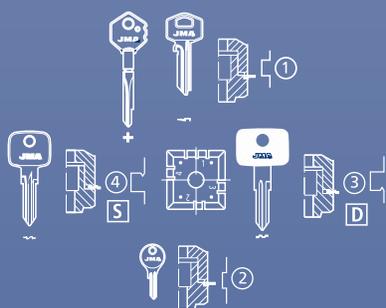
KEY CUTTING MACHINES

ECCO AUTOMATIC



Automatic duplicating machine for flat keys for cylinder, automobile locks, cruciform and special keys.

NEW DESIGN
MORE POWER AND RESISTANCE



CODE MOTOR

ECCO (single phase)
AUTOMATIC 230 V. 50 Hz. -
0,18 Kw. - 1350 r.p.m.

ECCO (optional single phase)
AUTOMATIC 110 V. - 60 Hz -
110 0,18 Kw. - 1700 r.p.m.

TECHNICAL DATA

Cutter FP11 (60X5X16)
Width 520 mm.
Height 280 mm.
Depth 245 mm.
Speed 16 Kg.

OPTIONAL

SOFER Jaw.



1 4 way hard steel jaws.



2 Tracer point with micrometric adjustment.

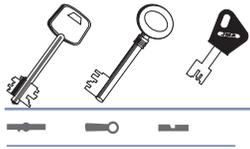


3 Brush incorporated.



4 Independent brush switch.

KEY CUTTING MACHINES TITAN BIT



Versatil semi automatic duplicating machine (depending on the carriages) for ABLOY, FORD and MORTICE KEYS.



BIT CARRIAGE



OPTIONAL CARRIAGES

RG (REGATA)



FD (FO - 6P)



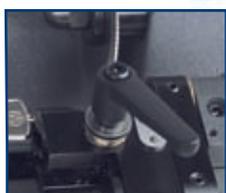
ABL (ABLOY)



CODE	MOTOR
TITAN BIT	(single phase) 230 V. 50 Hz. - 0,18/0,24 Kw. - 675/1350r.p.m.
TITAN BIT 110	(optional single phase) 110 V. - 60 Hz - 0,18/0,24 Kw. - 850/1700 r.p.m.

TECHNICAL DATA

Cutter	FP19 (80X1,4X16)
Width	560 mm.
Height	410 mm.
Depth	520 mm.
Weight	28 Kg.
Speed	325 / 650 r.p.m.



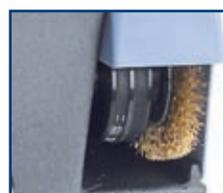
1 2 side jaws which permits:
a) duplication of mortice keys
b) duplication of front mortice keys.



2 Tracer point with micrometric adjustment.



3 Lamp attachment.



4 Brush incorporated.



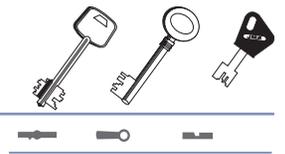
5 2 speed.



6 Spring system.

KEY CUTTING MACHINES

YAKARTA



Versatil semi automatic duplicating machine
(depending on the carriages) for ABLOY, FORD
and MORTICE KEYS.

BIT JAW



OPTIONAL CARRIAGES

RG (REGATA)



FD (FO - 6P)



ABL (ABLOY)



CODE MOTOR

YAKARTA (single phase)
220 V. 50 Hz. -
0,18 Kw. - 1.350 r.p.m.

TECHNICAL DATA

Cutter	FP19 (80X1,4X16)
Width	260 mm.
Height	270 mm.
Depth	310 mm.
Weight	29 Kg.
Speed	500 r.p.m.



1 2 side jaws which permits:
a) duplication of mortice keys
b) duplication of front mortice keys
c) duplication of special key (EO-4P).



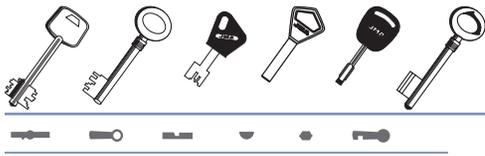
2 Tracer point with micrometric adjustment.
3 Microswitch security device.



4 Lamp attachment.



5 Brush incorporated.



KEY CUTTING MACHINES ECCO COMBI

Versatile semi automatic duplicating machine (depending on the carriage) for ABLOY, FORD and MORTICE KEYS.

CODE	MOTOR
ECCO COMBI	(single phase) 220 V. 50 Hz. - 0,18 Kw. - 1.350r.p.m.
ECCO COMBI 110	(optional single phase) 110 V. 60 Hz. - 0,18 Kw. - 1.700 r.p.m.

TECHNICAL DATA				
	E.BIT	E.RG	E.ABL	E.FD
Cutter	FP8	FP8	FP8	FP8
	(63x1,4x16)			
Width		520 mm.		
Height		280 mm.		
Depth		245 mm.		
Weight		16 Kg.		

OPTIONS

ECCO BIT



ECCO FORD



ECCO ABLOY



ECCO RG



FEATURES

	E.BIT	E.RG	E.ABL	E.FB
Tracer point with micrometric adjustment	•	•	•	•
Cutter guard	•	•	•	•
Brush	•	•	•	•
Micro - switch	•	•	•	•
Safety fuse fitted	•	•	•	•
FORD carriage				•
ABLOY carriage			•	
RG carriage		•		
BIT carriage	•			

OPTIONAL

Argentina Jaw.



1 Tracer point with micrometric adjustment.



2 Cutter guard.



3 Brush incorporated.

KEY CUTTING MACHINES

DAKAR

Semi automatic duplicating machine for special security, tubular, cylinder and Fichet type keys.

OPTIONAL ADAPTERS

JIS KEYS



MERCEDES KEYS



FORD KEYS



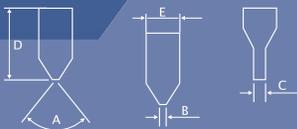
CODE MOTOR

DAKAR (universal)
230 V. - 50 Hz. -
200 W - 8.000 r.p.m.

DAKAR (optional universal)
110
110 V. - 60 Hz -
200 W - 8.000 r.p.m.

TECHNICAL DATA

Cutter F13, F1
Tracer P13, P1
Width 310 mm.
Height 420mm.
Depth 275mm.
Functional range 60,60,40
Lamp 25W.
Weight 25 kg.
Speed I 5.500 r.p.m.
Speed II 8.000 r.p.m.



OPTIONAL TRACERS AND CUTTERS

CUTTER	A	B	C	TRACER
F1	90	0,8		P1
F1W	90	0,8		P1
F1A	90	0,8		P1
F3			1,5	P3
F3W			1,5	P3
F4	90	0,4		P4
F5	90	0,9		P5
F5W	90	0,9		P5
F6	106	1		P6
F7	70	0,8		P7
F8			4	P8
F8W			4	P8
F11			2,5	P11
F11W			2,5	P11
F12A	100	0,6		P12A
F12B	100-90	2,1-2,9		P12B
F13	100	0,8		P13
F13W	100	0,8		P13
F14	100	1,45		P14
F15		2	5	P15
F16	130	0,6		P16
F17			3	P17
F17W			3	P17
F19	90	1,2		P19
F21	85	0,72		P21
F22			2,4	P22
F23W	90	0,8	3,3	P23
F24	95	1		P24
F24W	95	1		P24
F25	95	1,1		P25
F25W	95	1,1		P25
F26	90	0,6		P26
F27	90	0,7		P27
F27W	90	0,7		P27
F30	90	3	3	P30
F32	90	0,6	3	P32
F32W	90	0,6	3	P32
F33			2	P33
F33W			2	P33
F34	90	1,4		P34
F43	90	0,7		P43
FB	90-90	2,7-3,3		PB
FC	80-80			PC
F9			5,95	P9
F9W			5,95	P9



1 Tilting clamps for all types of keys with angles up to 45°.



2 Blocking tracer.



3 Electronic setting device.



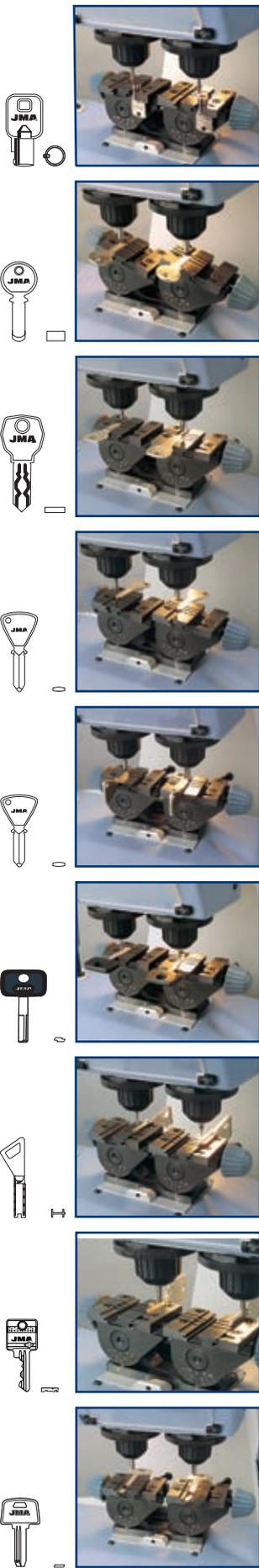
4 Micrometric ring for setting.



5 Safety guard.

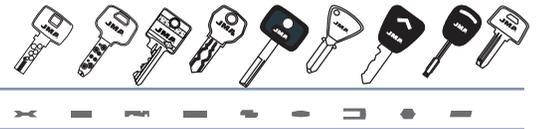


6 Lamp.



KEY CUTTING MACHINES

DAKAR EXPRESS



Semi automatic duplicating machine for special security keys.

OPTIONAL ADAPTERS

AD-15°



AD-45°



JIS KEYS



MERCEDES KEYS



FORD KEYS



CODE

MOTOR

DAKAR EXPRESS (universal)
230V. - 50Hz. -
200 W. - 8000 r.p.m.

DAKAR EXPRESS-110 (optional universal)
110V. - 60Hz. -
200 W. - 8000 r.p.m.

TECHNICAL DATA

Cutter	F1
Tracer	P1
Width	310mm.
Height	420mm.
Depth	275mm.
Functional range	60, 60, 40
Lamp	25W.
Weight	25 Kg.
Speed	5,500 r.p.m.

*** OPTIONAL**

FIC-TUB Clamp.



1 Fixed clamp.



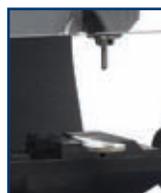
2 Interchangeables jaws.



3 Electronic setting device.



4 Blocking tracer.



5 Micrometric ring for setting up (0,02").



6 Safety guard.



7 Tool storage tray.



8 Lamp.

KEY CUTTING MACHINES

DAKKI

Duplicating machine for special security keys.

**OPTIONAL ADAPTERS****AD-15°****AD-45°****JIS KEYS****MERCEDES KEYS****FORD KEYS****CODE****MOTOR**

DAKKI (universal)
200 W., 230V - 50Hz

DAKKI 110 (optional universal)
200 W., 110V - 60Hz

TECHNICAL DATA

Cutter F1 90° (HSS)
Tracer P1
Width 270mm.
Height 378mm.
Depth 340mm.
Weight 18Kg.
Speed 5.500 r.p.m.
Functional range 32, 40, 27



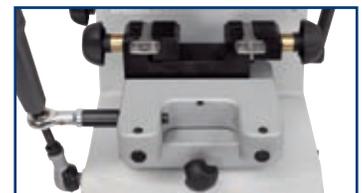
1 Semi automatic tracer for setting up.



2 Side movement blocking system.



3 Upright movement blocking system.



4 Fixed 1 side clamps.

5 Easy to use.

6 Small dimensions.

KEY CUTTING MACHINES

SARATOGA

Combined duplicating machine for flat keys, for cylinder automobile locks, cruciform keys and special keys in side A and ABLOY, FORD and MORTICE KEYS in side B.

CODE **MOTOR**

SARATOGA (single phase)
230V. - 50Hz.-
0,22 Kw.- 1.350 r.p.m.

SARATOGA (optional single phase)
110V. - 60Hz.-
0,22 Kw.- 1.700 r.p.m.

TECHNICAL DATA

	SIDE A	SIDE B
4 side jaw	•	
Jaw BIT		•
Cutter	FP24(80x5x16-42°)	FP19(80x1,4x16)
Width	590 mm	
Height	260 mm	
Depth	470 mm	
Weight	43 Kg	
Speed	500 r.p.m.	

OPTIONAL

SOFER Jaw.



OPTIONAL ADAPTERS

AD-NEVA



AD-SIX



RG (REGATA)



FD (FORD)



ABL (ABLOY)



FEATURES

SIDE A

Cutter driven by motorised belt transmission.

1. Four side jaws.
2. Trace point with micrometric adjustment.
3. Lamp attachment.
4. Tool storage tray.
5. Brush attachment.
6. Carriage release lever.



SIDE B

Cutter driven by motorised belt transmission.

1. 2 sided jaws which permit:
 - a. Duplication of mortice keys.
 - b. Duplication of front mortice keys.
 - c. Duplication of special key (FO-4P).
2. Tracer point with micrometric adjustment.
3. Switch ON security device.
4. Lamp attachment.
5. Brush.
6. Carriage with central guides for centering.
7. Independent brush switch.



1 4 side hard steel jaws.



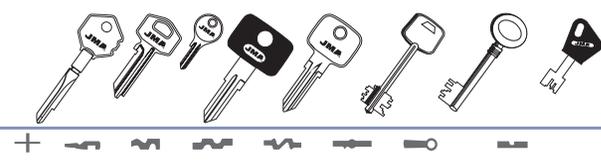
2 Trace point with micrometric adjustment.



3 Lamp attachment.



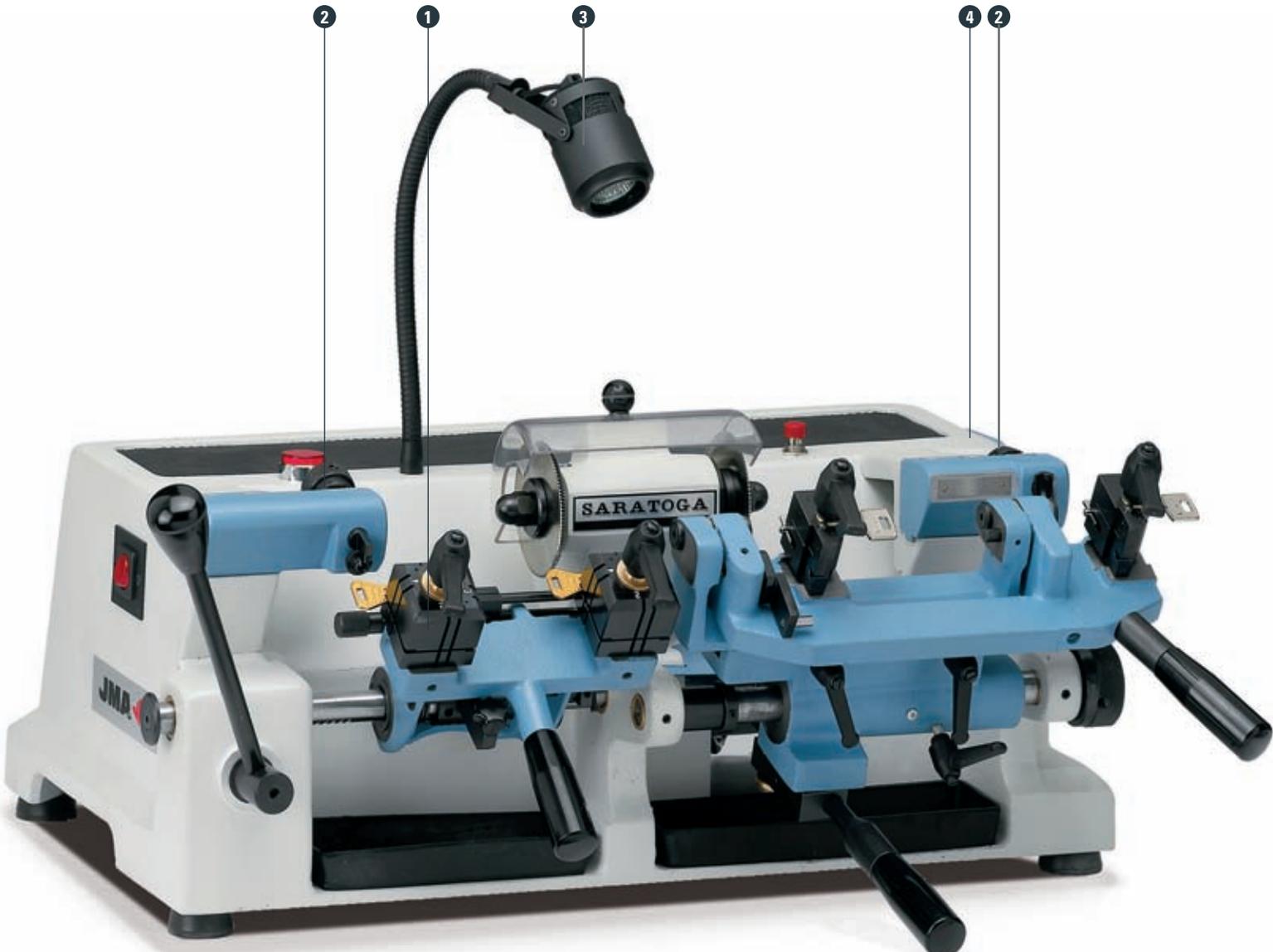
4 Brush incorporated.



Side A



Side B



KEY CUTTING MACHINES

SENA

Key-cutting machine for single and double bit keys, pump keys.

CODE

MOTOR

SENA

(single phase)
2800-1400 r.p.m. 220V
50Hz, 0,55 - 0,37 Kw.-

TECHNICAL DATA

Cutter

- Hard metal $\varnothing 80 \times 16 \times 1,5$ mm.

- High speed Steel $\varnothing 80 \times 16 \times 1$ mm.

Speed I (steel key) 700 r.p.m.

Speed II (Brass key) 1400 r.p.m.

Clamps: (3models)

- Zone 1: Single and double bladed bit keys.

- Zone 2: Pump keys with flat or cylindrical stems, Muel type keys.

- Zone 3: Vertical groove keys, wedge bit mortise keys and ADPLE -1- 2- 3 - 4 keys.

Displacement: Guide with roller cages.

Width 500mm

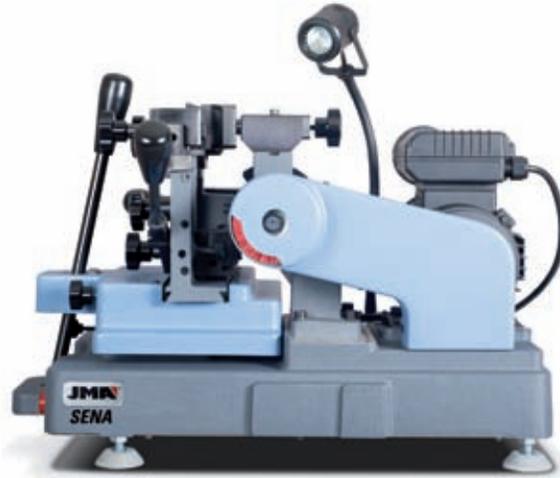
Height 280mm

Depth 245mm

Halogen lamp 12V 25W

Weight 50Kg.

Height: 280 mm.



Depth: 245 mm.



1 Professional cutting of bit keys, grooved blade, wedge bit mortise keys, pump keys and 45° Muel keys with the same slide.



2 2-speed motor for brass and steel keys.



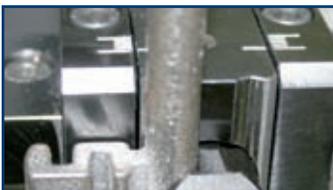
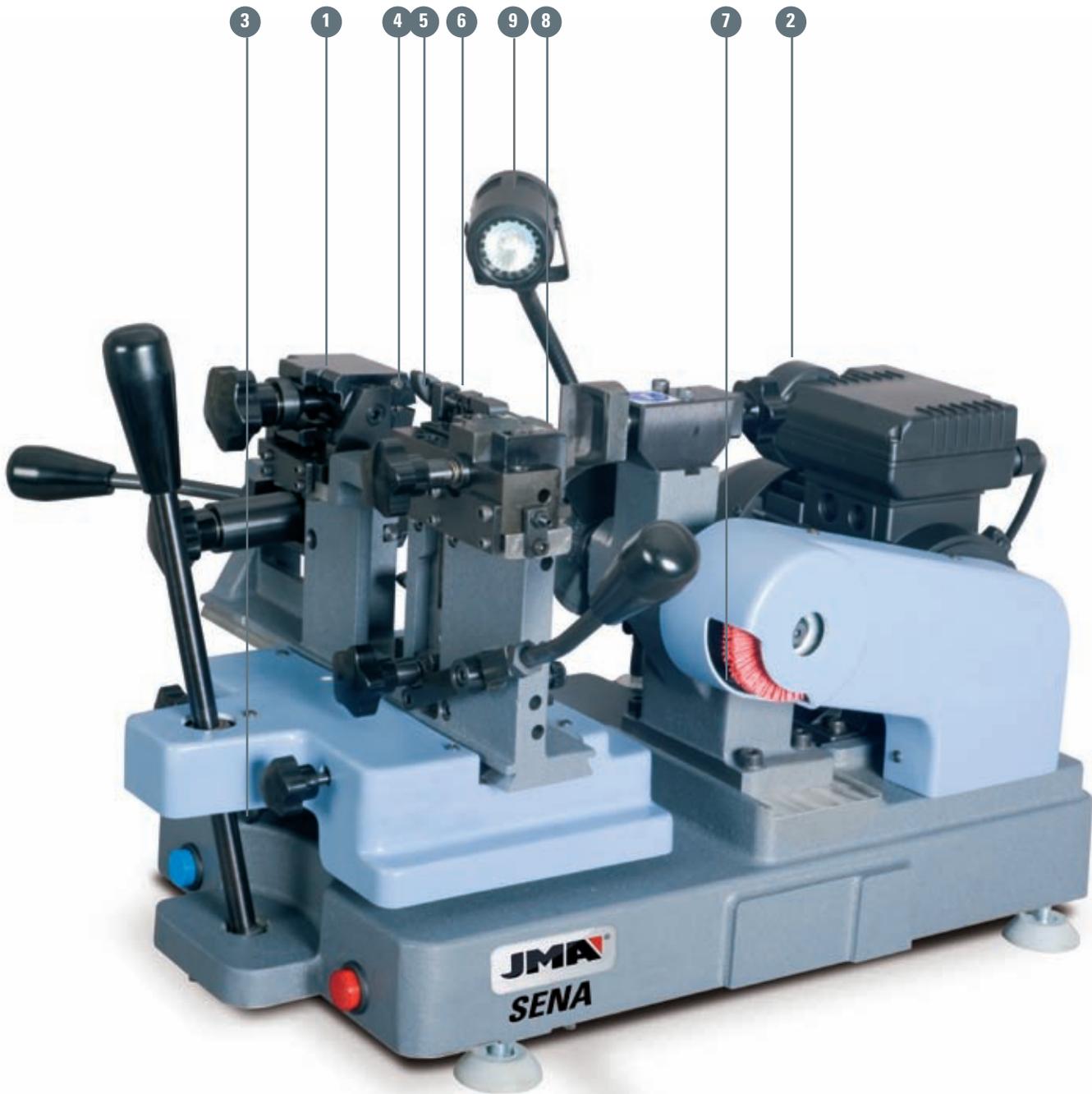
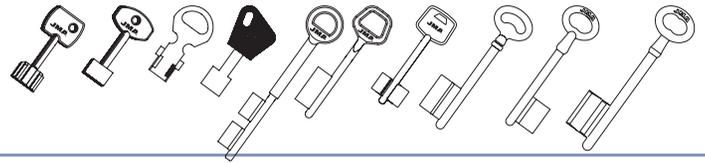
3 Blocking of slides on X and Y axis.



4 Clamps with adjustable jaws to correctly secure bit keys of different lengths.



5 Innovative tightening system for pump keys.



6 Adjustable side clamps for any model of wedge bit mortice keys.



7 Brush to deburr the keys.



8 Milled clamps to correctly secure keys.



9 Lighting in work area.

KEY CUTTING MACHINES

PROCEDURE

The Procode machine is an electronically-controlled, coded key biting machine for cylinder locks and automobiles. It can operate autonomously or by connection to a PC.

CODE**MOTOR****PROCEDURE**

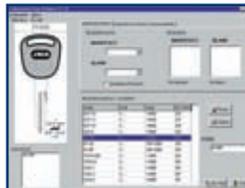
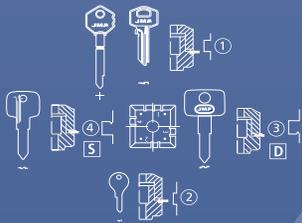
(single phase)
220V- 50Hz,-
0,18Kw,-1.350 r.p.m.
1,7 Amp.

**PROCEDURE
110**

(optional single phase)
110V- 60Hz,-
0,18Kw,-1.700 r.p.m.
1,7 Amp.

TECHNICAL DATA

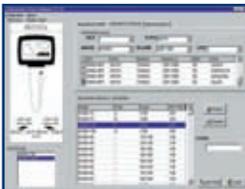
Cutter	FP16(70 x 5,25 x 16)
Width	420mm.
Height	300mm.
Depth	530mm.
Weight	43Kg.
Lamp	5W.
Speed	530 r.p.m.

NEW DESIGN**MORE POWER AND RESISTANCE**

1 Key search by manufacturer's serial code.



2 Search by locksmiths trade name or JMA key model.



3 Search by type, model and brand of vehicle.



4 Search by equivalent models of different key manufacturers.

PROCEDURE STAND ALONE

By means of the enclosed car and a known cutting code (code books, code programs, original decoded key, etc) this machine allows the correct reproduction of the key based on a direct code, just by keying in the cutting code.

Thanks to the edit feature of the machine new keys can be cut or technical data can be input as the latest keys come onto the market, without waiting for an update. Thanks to its advanced operating system.

The Procode machine can carry out different key cutting styles.

PROCEDURE + READER

The Reader can use the Procode machine for:

- Reproducing any kind of flat key by means of its probe, which is accurate to one hundredth of a millimetre.
- Read the code of known key (if you know which card corresponds to the key).
- Correction of copying errors and reproduce an original key.

PROCEDURE CONNECTION TO A PC

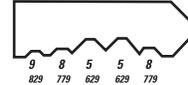
This machine can be connected to a compatible Intel personal computer (PC) in which the Interactive key Software (optional) is installed. This programme is a data base of cylinder codes, automotive, ...

This system allows a completely integrated working model (code search, selection of cutting codes, additional key data, complete digital catalogue of JMA Keys, ...).

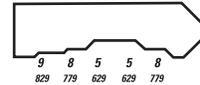
INTERACTIVE KEY SOFTWARE

The fully integrated working system of JMA.

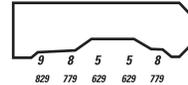
Normal cut



Plain cut



Ideal cut





1 Four side jaws.



2 Micro setting by keypad.



3 Electromechanical reader.



4 Brush.



5 PC connection.



6 Software pass key.

KEY CUTTING MACHINES

X - CODE

The X-code is an electronic key cutting machine for duplicating and code cutting both dimple and laser style keys. It can operate Stand Alone or by connection to a PC.

CODE **MOTOR**

X - CODE (single phase)
220V. - 50Hz. -
0,18 Kw. -
1350/2700r.p.m.

X - CODE (optional single phase)
110 110V. - 60Hz. -
0,18 Kw. -
1700/3400 r.p.m.

TECHNICAL DATA

Universal jaw	M1*
Speed	7.000 r.p.m.
Width	400 mm.
Height	612mm.
Depth	550 mm.
Weight	45 Kg
Halogen Lamp	15W.
Data memory	8 Mb FLASH memory
Display	Dot matriz de 128 x 64

MAIN FEATURES

1. Automatic calibration.
2. Quick and easy tool release.
3. Automatic compensation for worn cuts.
4. Quick and easy updates via serial port.
5. Ability to function stand alone or with PC.
6. Dual speed motor.

**X-CODE STAND ALONE**

By means of the on-board card, and a known cutting code (code books, code programmes, original decoded key, etc.) this machine allows the correct reproduction of the key based on a direct code, just by keying in the cutting code.

Thanks to the editor supplied with the machine, new keys can be cut or the technical data of the latest keys that have come out on the market introduced without having to wait for an update.

READER

The reader can use the X-Code machine for:

- Read the code of a known key (if you know which card corresponds to the key).
- Correct copying errors and reproduce and original key.

X-CODE WITH CONNECTION TO A PC

This machine can be connected to a compatible Intel personal computer (PC) in which the Interactive Key Software (optional) is installed.

This program is a database of codes for all keys, automotive keys, special keys, ...

This system allows a completely integrated working model (code search, selection of cutting combinations, additional key data, complete digital catalogue of JMA keys, ...). IKS software can work with other MASTER KEY SYSTEM software.

Software features:

- Digital catalogue of JMA.
- Search codes.
- Customer and keyblank historical.
- ...

OPTIONS

- Interactive key software (IKS).
- Various jaws and adapters to cut specific keyblanks.



ADVANTAGES

1. Maximum reliability in key cutting.
2. The machine operator can introduce new cards with ease.
3. The code database can be updated on a daily basis (Interactive Key Software).
4. Compliance with all standards demanded by the European Community.
5. Maximum safety for the machine operator.
6. The X-code can work in 2 different ways: Stand Alone; With interactive key software, IKS.



KEY CUTTING MACHINES

MULTIMARK

Electronic machine for engraving logos, images and text (in horizontal, arch and angled).

OPTIONS

Jaw for plates MJ1P.



Jaw for cylinders MJ1C.



Jaw for Scandinavian cylinders MJ2C.



Standard jaw for keyblanks MJ1K

**CODE MOTOR**

MULTI-MARK 220V. - 50Hz.-200W

MULTI-MARK 110V. - 50Hz.-200W
110

TECHNICAL DATA

70mm x 50mm engraving area.

Memory

- 126 text files.
- 96 logo files.

Width 200mm.

Depth 480mm.

Height 480mm.

Weight 20 Kgs.

Connectors

- Serial RS-232
- PS/2 for keyboards.



1 LCD Display 55mm x 38mm.



2 Exchangeable JAWS.



3 Easy to set up.

KEY CUTTING MACHINES CTM - 700

Universal electronic copying device for remote control systems with fixed code using radio-frequency system.



MAIN SPECIFICATIONS

- Still compatible with existing controls (EM2-IR, EM2-433, EM-Q).
 - Better capacity for copying Mastercode controls (with or without personalisation).
 - Able to copy evolutive controls.
 - 1st generation: jcm, pujol, forsa, dmil, master ingenieros, nueva castilla, elemat, zibor, hydrom, emfa, cubells, alfa torres, electro parking, ep, neo, arf-2, hibrid plus, cyacsa.
 - 2nd generation: erreka, roper, mutan-code, bft, nice smilo, dea, gibidi, pujol, norton plus, jcm máquinas tabaco, celinsa, doormatic.
 - Convenient configuration of emitter channels (it is possible to select which channel goes with which button so that the variations in the installers have no effect).
 - Monitors battery level.
 - Upgrade by connecting to the Internet with no need to return the machine for upgrades.
 - Homologated product.
 - All in one machine.
 - With no credit system and no limit to number of recordings.
- The machine includes USB cable, cable to programme fixed code controllers, cable to programme evolutive controllers, cable to measure the battery level and small screw-driver.

CODE	MOTOR
CTM - 700	110- 220 V- 50/60 Hz,- 9V 0,45A.
EM-Q	30,87 - 40,685MHz Quartz fix code.
EM2-433	433MHz 2 channels fix code.
EM-UNIV	EM2 - 433 + EM2IR 2 channels fix code.
EM -4C-433	433MHz 4 channels fix code.
EM-MASTER with SWITCHES	Master with SWITCHES 2 channels.
EM-MASTER without SWITCHES	433Mhz master without SWITCHES 2 channels.
EM-ROLL/R2 433	433Mhz Rolling 2 channels.
EM-ROLL/R2 868	868Mhz Rolling 2 channels.
EM-ROLL/R4 433	433Mhz Rolling 4 channels.
EM-ROLL/R4 868	868Mhz Rolling 4 channels.

EM-ROLL 433 and 868 (2 and 4 channels) EM - UNIV

- 433 MHz Control.
- Can make copies of any evolutive control with a unique control.
- The control can be copied as many times as required regardless of whether it has been previously copied with or without personalisation from the manufacturer.
- It has an external connector for function programming so that there is no need to open the control.
- It has a power supply that can be used to incorporate a transponder for access to systems in close proximity.
- Ergonomic, robust design.

This control is only used with the EM2IR and EM2-433 controls.

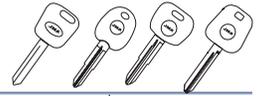
EM-MASTER (with o without Switches) EM- 4C 433

- There are two versions of the Mastercode programmable control. One version has switches and the other does not.
- The version with switches enables the end user to modify the code if the same code is accidentally created in the installation receiver. With this modification there is no need to make a copy as is the case for the version without switches.

With this control up to four controls can be stored on only one and it is possible to record a 443 control or a IR control on any of the buttons.



KEY CUTTING MACHINES

TRS - 5000 + CLONER

Fixed code and Crypto transponder machine.
Specially designed for the recognition and duplication of Texas® Fixed and Crypto transponders with TPX1 and TPX2 transponders developed by JMA.

Philips	TP01	TP0S
-TEXAS FIXED CRYSTAL TP02		TPX1
Megamos	TP03	TP05
Temic	TP04	TP05
Nova	TP05	TP05
-TEXAS FIXED CERAMIC TP07		TPX1
Texas Crypto CrYstal	TP06	TPX2
Texas Crypto Ceramic	TP19	TPX2
Texas Crypto Ceramic	TP20	TPX2
Texas Crypto	TP21	TPX2
Texas Crypto	TP26	TPX2
Texas Crypto	TP27	TPX2
Texas Crypto	TP28	TPX2
Texas Crypto	TP29	TPX2
Texas Crypto	TP30	TPX2
Texas Crypto	TP31	TPX2
Texas Crypto	Texas Crypto	TPX2
Megamos		
Crypto CrYstal	TP08	TP08
Philips Crypto	TP09	TP09
Philips Crypto		
1st generation	TP10	TP10
Megamos Ceramic		
Crypto	TP11	TP11
Philips Crypto	TP12	TP12
Philips Crypto	TP12CH	TP12CH
Philips Crypto	TP12GM	TP12GM
Philips Crypto	TP12HN	TP12HN
Philips Crypto	TP12MT	TP12MT
Philips Crypto	TP12NS	TP12NS
Philips Crypto	TP12RN	TP12RN
Philips Crypto	TP12SZ	TP12SZ
Philips Crypto	TP13	TP13
Philips Crypto 2ndgeneration	TP14	TP14
Philips Crypto 2ndgeneration	TP15	TP15
Philips Crypto 1stgeneration	TP16	TP16
Temic Crypto	TP17	TP17
Motorola Indala	TP18	TP18
Texas Crypto Ceramic	TP22	TP22
Megamos Crypto	TP23	TP23
Megamos Crypto	TP24	TP24
Megamos Crypto	TP25	TP25

CODE SUPPLY

TRS -5000 220V. - 50Hz.A
9V.C.C./ 500MA.

TRS- 5000 110V. - 60Hz.A-
9V.C.C./ 500MA.

TPX CLONER**TECHNICAL DATA**

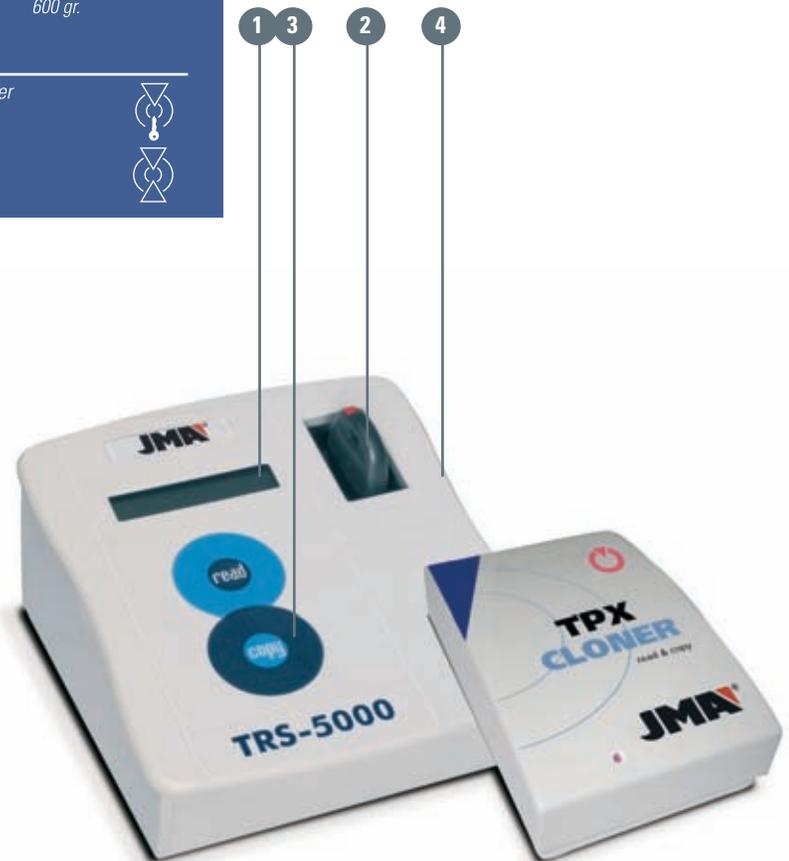
Width 158 mm.
Height 76 mm.
Depth 175 mm.
Weight 600 gr.

OPTIONS

Original Transponder



Transponder JMA



1 Display.



2 Antenna.



3 Keypad.



4 Connection to PC that allows :
- Upgrade the TRS-5000.
- Code reading.
- Code store.
- Code modification.
- Database creation.

KEY CUTTING MACHINES

TRACK - 7

Capabilities of programming transponder keys in a wide array of vehicles. Transponder key activator.

MAIN FEATURES

1. Upgrading of software via USB.
2. Visual information about models and connectors.
3. Programming of telecontrols.
4. Windows CE graphic interface.
5. 2007 transponder manual integrated.
6. Procedure through a menu of guided programming.
7. Touch Screen.

CODE

TRACK 7

TECHNICAL DATA

Width	143 mm.
Height	190 mm.
Depth	32 mm.
Weight	500 gr.

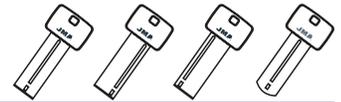
CHARACTERISTICS

- Reading of current data.
- Reading of fault codes.
- Deletion of fault codes.
- Identification of the ECU.
- Upgrading of software via USB.
- Technical support.
- Easily upgradable SD type hard disk.
- Operation simulation mode.
- Different languages available.
- Visual information about models and connectors.
- Programming of OEM keys / replacement.
- Deletion of keys.
- Programming of telecontrols.
- Reading of mechanical key codes.
- Windows CE graphic interface.
- Windows functionality and simplicity in adjustment of parameters.
- 2007 transponder manual integrated.
- Graphic indication of upgraded elements.



KEY CUTTING MACHINES

CO 9



Universal magnetic keys encoder with electronic reader incorporated.

CODE SUPPLY

CO9 230V. - 50Hz.

TECHNICAL DATA

Width 270 mm.
 Height 120 mm.
 Depth 180 mm.
 Weight 1,650 gr.

MAGNETIC KEYS

MG - 6S

Standard magnetic key with 6 magnets and central guide.



MG - 6D

Standard magnetic key with 6 magnets and right guide.



MG-6I

Standard magnetic key with 6 magnets and left guide.



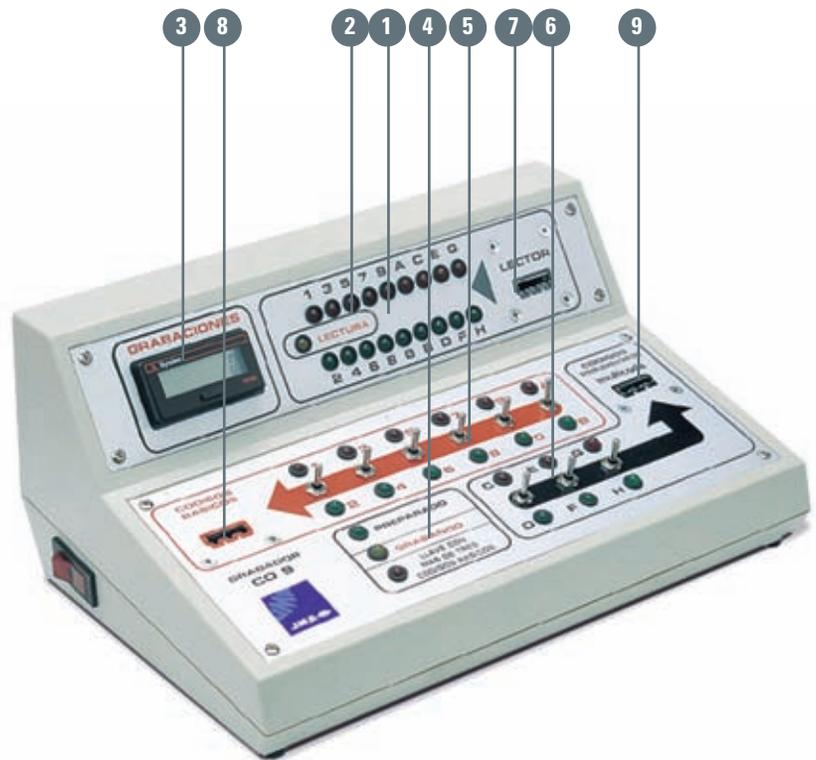
MG-9

Magnetic multicode key with 9 magnets.



Attention:

- Do not forget to plug the equipment with ground (GND).
- Inside this device there are huge estresses which could be dangerous.
- Do not strip down the machine.
- Maintenance operations should be carried out by qualified personal.



1 Reading display.
 2 Key code display.



3 Counter.



4 Ready copying, more than 3 codes pointers.



5 Basic codes selecting switch.



6 Complimentary codes selecting switch.



7 Key reading entrance.



8 Basic codes copying entrance.



9 Complimentary codes entrance.

KEY CUTTING MACHINES

OTHER ACCESSORIES

CODE	DESCRIPTION	DAKAR	DAKAR EXPRESS/ DAYTONA	DAKOTA EXTRA/ECCO-ECCO PLUS/ TITAN/TITAN MASTER/SARATOGA	ECCO BIT	DAKKI
AD-F024	F0-24P adapter					•
AD-LLP	Llaves Planas adapter				•	
AD-CI	Cisa adapter	•	•			•
AD-5°	5 gra Ke-1 adapter		•			•
AD-45°	45 gra Ka-2 adapter		•			•
AD-15°	15 gra Ka-3 adapter		•			•
ADJAR-1E	JAR 1-E adapter		•			•
AD-MJ	JIS adapter	•	•			•
AD-MM	Mercedes adapter	•	•			•
ADPL-5°	Plan-5 gra Ke-1 adapter	•	•			•
AD-F0	F0-6P adapter	•	•			•
AD-ABL	Abloy adapter	•	•			•
P-MCM	MCM-10 winkle	•	•			•
AD-ST5	STS adapter	•	•			•
AD-MCM	MCM-10 adapter		•			•
AD-KA4	KA-4 adapter		•			•
AD-HAA	Audi (HAA) adapter		•			•
AD-KE	Llave Keso DK-158 adapter		•			•
AD-NEVA	NE-VA adapter			•		
AD-ALA-1X	ALA-1X adapter			•		
AD-BLU-1X	BLU-1X adapter			•		
AD-BUR-5X	BUR-5X adapter			•		
AD-BRI-3X	BRI-3X adapter			•		
AD-CA	Cavith adapter			•		
AD-PO	Porsche adapter			•		
FIG-TUB	Fichet adapter	•	• (Dakar Express)			
AD-SIX	Simplex adapter			•		
P-WIN	Winkaus winkles		•			
AD-OP	Opel adapter	•	•		•	
RG-E	Regata EB adapter				•	
ABL-E	Abloy EB adapter				•	
FD-E	F0-6P EB adapter				•	

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