TECHNO*mark* ®

CREATIVE TRACEABILITY

MULTI4 ®

DOT PEEN & SCRIBING

TECHNOMARK

TECHNO*mark* ®

TECHNOMARK:
EXPERIENCED PROVIDER OF INDUSTRIAL MARKING AND TRACEABILITY SOLUTIONS

For 10 years, TECHNOMARK has been a leader in the permanent, direct part marking industry. Based on our success of the Multi4 modular concept, we are introducing the latest generation of direct part marking solutions, the Multi4, Version 3 !

A SURE KNOW-HOW:

Technomark's core, permanent marking developments have evolved at a rapid pace over the last several years. Starting as a manufacturer of standard marking machines, we are currently offering global solutions for direct part marking and traceability.

TECHNOMARK bases its expertise around three core strengths:

- **Permanent marking** using the technology of electro-magnetic dot peen and pneumatically actuated scribing.
- **Reading and verifying** of DataMatrix codes and other 2D symbologies.
- **Custom engineered and turn key solutions** for special marking requirements involving direct part marking, reading/verifying, database management and part handling…

TECHNOMARK'S diverse expertise is found in many industrial sectors:

- Aerospace
- Automotive
- Defense
- Medical
- Nuclear
- Metal work

ONGOING INNOVATIONS:

TECHNOMARK invents the 4 in 1 concept when introducing the MULTI4*, the very first marking equipment fully modular.
1 unique machine = 4 possible configurations
Patent # FR9914782

TECHNOMARK introduces intelligent direct part marking: IDI ensures the level of quality and consistency of the marking data.
International patent pending N°PCT/FR2006/001246

MULTI *4* ®

iD!
INTELLIGENT DRIVING IMPACT

PREMIUM

EXPERIENCED IN MARKING TECHNOLOGIES

TECHNOMARK offers two Direct Part Marking technologies :

ELECTRO-MAGNET DOT PEEN

The concept is to create characters, symbols and codes by cold forming dots directly into the work piece material through an oscillating stylus. This method creates a permanent, low stress mark on most materials under 65 Rc.

PNEUMATIC SCRIBING

The principle is based on penetrating a stylus into the material by pneumatic pressure and creating highly visible, continuous line characters. The scribing process is quiet, less than 72 dB(A), and ideal for marking applications where excessive noise may be an issue, for tooling of high hardness and also aesthetical marking.

A LONG LASTING PARTNERSHIP

TECHNOMARK is committed to long term support with all of its customers and partners. This commitment is based on 3 factors:

- Total Support: understanding you requirements, overall maintenance of your Multi4 and financial solutions
- Implementation: custom engineered and modified solutions for specific applications
- Follow up: product training and efficient maintenance of installed Multi4 systems.

QUALITY MARKING AND ENVIRONMENTAL FRIENDLY

Currently, TECHNOMARK is the only company in France to have obtained both of the following certifications: ISO 9001 Version 2008 and Investor in People.

Emphasis of Certification:

- Its knowledge base and quality management
- Its interpersonal skills and the quality of its management

From the beginning, TECHNOMARK has been environmentally conscious of problems associated with industrial products.

As a result, TECHNOMARK has implemented a set of actions aimed at reducing the negative impact on the environment by using recycled materials and optimizing the Multi4 power consumption.

INVESTOR IN PEOPLE

MULTI4
NEW GENERATION!

MULTI4 ®

1 PRODUCT
4 CONFIGURATIONS

MULTI4 BENEFITS

- **Easier to use:** simplified user interface, intuitive navigation, new and improved features (zooming, cutting/pasting, test…)

- **Better resolution:** high definition color screen

- **More intuitive:** icon based navigation menu allows for quick understanding and operation of the software

- **Improved ergonomics:** new design with a second handle (optional accessory)

- **Improved handling:** support foot, controller handgrip and handle on the marking head (optional)

- **Reduced weight:** marking head weight reduced by around 0.88 lbs

- **More robust:** use of cast aluminum parts

- **Enhanced performance:** increase of the marking speed by 20% and optimization of the overall X/Y movement, standard management of 3 axes

- **More resourceful:** 40Mb of memory can accommodate up to 20,000 stored, marking files (40 characters, 1 line), serial communication, USB, Ethernet (option) and Inputs/Outputs

iD!
INTELLIGENT
DRIVING
IMPACT

PREMIUM

(1)
(2)

MULTI4®
Bench

For very small, small
to medium sized parts

MULTI4®
Hand-Held

Ideal for large and cumbersome
parts

MULTI4®
Combo

Offers maximum flexibility for
marking small and large parts

MULTI4®
Integrated

Compact, good fit for
automated integration

TECHNICAL ATTRIBUTES :

IDI marking:

The quality of marking is ensured, whatever the difference in height
between the part (flat or cylindrical) and the stylus. Its adjustment is
managed by the Multi4 software.

IDI control:
Real-time Multi4 monitoring for analysis of maintenance needs,
stylus wear and detection faults (auto-diagnosis feature with 5
control points).

(1) Marking with IDI Premium
(2) Marking without IDI Premium

ECO-DESIGN

• 80% of the used materials can be recycled

• Two programmable modes for reducing
power consumption between 40% and
98%!

• Reduction of the carbon footprint by using
local suppliers and limiting transportation
requirements

• Dry marking (no material removal, no
waste, no fumes)

• No consummables

• Reduction of mechanical parts wear

Displayed model: Multi4 200

MULTI 4®
Bench

For very small to medium sized parts

PRECISE

Multiple fixturing options for optimal positioning of the marking head.

SMART

Fast vertical height adjustment with "Quick Shift" feature (see technical features).

SIMPLE

Ergonomics of the Multi4 Bench optimized for marking many different part configurations.

EFFICIENT

Easy to start marking, from a single part to mass production.

REAL APPLICATIONS

(1) Marking of a nameplate

(2) Marking of a serial number on a metal part

MULTI4 ®
Bench

TECHNICAL FEATURES (MULTI4 200)

- Marking window: 7.87" x 2.36"

- Carbide tungsten stylus with 90 degrees included angle (available in 60 and 120 degrees)

- Quick Shift feature: Clutch release of the locking mechanism for fast vertical moving and precise positioning of the marking head to the part

	Head	Bench/column
L	11.61"	16.22"
l	5.67"	12.20"
H	8.90"	25.83"
Weight	8.16 lbs	39.68 lbs

Dimensions given in inches (excluding upper handle) and weight given excluding the cable

POWER AND ENVIRONMENT

- Power : 250 W

- Frequency : 50 to 60 Hz

- Imput power : 90 to 240 VAC

- Operating temperature: 32 to 115°F

MARKING HEAD MODELS

- Head 50 (1.97" x 2.36")

- Head 120 (4.72" x 2.36")

- Head 200 (7.87" x 2.36")

- Head 200 XL (7.87" x 7.87")

STANDARDS

- 2006/42/CE «machines» directive

- 2004/108/CE «CEM» directive

- 2006/95/CE «low voltage» directive

- FCC Chapter 15 directive

MULTI4 CONTROL UNIT

- High resolution (640x480 px) color screen with icon based navigation

- Intelligent handling of the marking **iD!**

- RS232 connection, 3 Inputs / Outputs, Ethernet (optional)

- 2 USB: Device Port & HOST

- One further optional axis available (total of 4 axes)

- Embedded Multi4 software in 21 different languages

- Memory capacity of 40Mb of memory can accommodate up to 20.000 stored, marking files (40 characters, 1 line)

- Well designed ergonomics (locating foot and carriage handle)

- Fast updates in less than 2 minutes through USB port

- Various marking modes: Text, variable data, serial number, data codes, logos and 2D codes

- Straight, angular, circular and radial marking

- « Easy Shift » feature: allows to display text moving in the marking window.

- (L x W x H) : 14.57" x 8.46" x 5.47"

- 8.16 lbs (including power cord)

MAIN ACCESSORIES AND OPTIONS

01 - Plates support

02 - Parts support

03 - Automatic nameplate\ tag feeder

04 - Ethernet port

05 - Electric Up/Down Z axis

06 - Extended column (+ 3.94")

07 - Autosens

08 - Extended bench

09 - Standard Rotary D axis

10 - Heavy Duty Rotary D axis

11 - Maintenance kit

12 - Software pack

13 - Cycle start footpedal

14 - Start/Stop box

Displayed model: Multi4 50

MULTI 4 ®
Hand-Held

Ideal for large and cumbersome parts

AUTONOMOUS

With (optional) battery kit, it can be used in locations where an electric source is unavailable.

STRONG

Its cast aluminium frame makes it more robust and stronger while diminishing maintenance needs.

EASY TO USE

Its specially designed locator allows for excellent support while marking.

HANDY

An additional handle is mounted to the marking head for increased stability, regardless of head position.

APPLICATIONS AND REALISATIONS

(1) Marking of a cylindrical part in bronze

(2) Multi lines radial marking

MULTI 4 ®
Hand-Held

TECHNICAL FEATURES (MULTI4 50)

- Marking window: 1.97" x 2.36" mm

- Carbide tungsten stylus with 90 degrees included angle (available in 60 and 120 degrees)

	Head
L	5.71"
l	10.47"
H	8.90"
Weigth	9.26 lbs

Dimensions given in inches including gun kit (excluding upper handle) and weight given excluding the cable

POWER AND ENVIRONMENT

- Power : 250 W

- Frequency : 50 to 60 Hz

- Input power : 90 to 240 VAC

- Operating temperature: 32 to 115°F

MARKING HEAD MODELS

- Head 50 (1.97" x 2.36")

- Head 120 (4.72" x 2.36")

- Head 200 (7.87" x 2.36")

STANDARDS

- 2006/42/CE «machines» directive

- 2004/108/CE «CEM» directive

- 2006/95/CE «low voltage» directive

- FCC Chapter 15 directive

MULTI4 CONTROL UNIT

- High resolution (640x480) color screen with icon based navigation

- Intelligent handling of the marking **iD!**

- RS232 connection, 3 Inputs / Outputs

- 2 USB : Device Port & HOST

- Optional battery kit for use when electrical power is not available

- Embedded Multi4 software in 21 different languages

- Memory capacity of 40Mb of memory can accommodate up to 20.000 stored, marking files (40 characters, 1 line)

- Well designed ergonomics (locating foot and carriage handle)

- Fast updates in less than 2 minutes through USB port

- Various marking modes: Text, variable data, serial number, data codes, logos and 2D codes

- Straight, angular, circular and radial marking

- « Easy Shift » feature: allows to display text moving in the marking window

- (L x W x H) : 14.57" x 8.46" x 5.47"

- 8.16 lbs (including power cord) 10.80 lbs (including optional battery)

MAIN ACCESSORIES AND OPTIONS

01 - Battery kit	05 - Additional holding handle	09 - Protective cover
02 - Bench kit	06 - Bar End Tool	10 - Transport trolley
03 - Maintenance kit	07 - Suspension hook	
04 - Software pack	08 - 5 and 10 m cable	

Displayed model: Multi4 120

MULTI 4 ®
Combo

Fits with all kind of parts and needs

DIVERSE

From small components to parts weighing several tons.

INTUITIVE

With its user friendly software, the Multi4 Combo is very simple to use.

FLEXIBLE

In less than 10 seconds, without tools, the Bench version can be converted into a Hand-held.
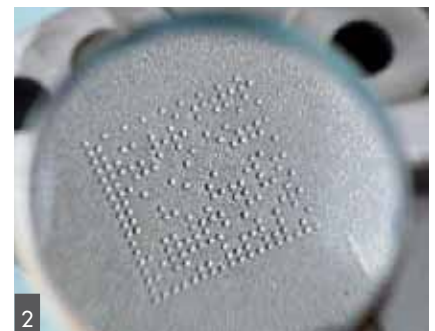
VALUE FOR MONEY

Based on its flexibility, you receive two configurations in a single marking system.

APPLICATIONS

(1) Serial number with a logo

(2) Datamatrix marking

MULTI4 ®
Combo

TECHNICAL FEATURES (MULTI4 120)

- Marking window: 4.72" x 2.36"

- Carbide tungsten stylus with 90 degrees included angle (available in 60 and 120 degrees)

- Quick Shift feature: Clutch release of the locking mechanism for fast vertical moving and precise positioning of the marking head to the part

	Head	Bench/column
L	8.46"	16.22"
l	10.47"	12.20"
H	8.90"	25.83"
Weight	8.38 lbs	39.68 lbs

Dimensions given in inches (excluding upper handle) and weight given excluding the cable

POWER AND ENVIRONMENT

- Power : 250 W

- Frequency : 50 to 60 Hz

- Input power : 90 to 240 VAC

- Operating temperature: 32 to 115°F

MARKING HEAD MODELS

- Head 50 (1.97" x 2.36")

- Head 120 (4.72" x 2.36")

STANDARDS

- 2006/42/CE «machines» directive

- 2004/108/CE «CEM» directive

- 2006/95/CE «low voltage» directive

- FCC Chapter 15 directive

MULTI4 CONTROL UNIT

- High resolution (640x480) color screen with icon based navigation

- Intelligent handling of the marking **iD!**

- RS232 connection, 3 Inputs / Outputs, Ethernet (optionnal)

- 2 USB : Device Port & HOST

- One further optional axis available (total of 4 axes)

- Embedded Multi4 software in 21 different languages

- Memory capacity of 40Mb of memory can accommodate up to 20.000 stored, marking files (40 characters, 1 line)

- Well designed ergonomics (locating foot and carriage handle)

- Fast updates in less than 2 minutes through USB port

- Various marking modes: Text, variable data, serial number, data codes, logos and 2D codes

- Straight, angular, circular and radial marking

- « Easy Shift » feature: allows to display text moving in the marking window

- (L x W x H) : 14.57" x 8.46" x 5.47"

- 8.16 lbs (including power cord)

MAIN ACCESSORIES AND OPTIONS

01 - Nameplate/tag support

02 - Parts support

03 - Battery kit

04 - Ethernet port

05 - Extended column (+ 3.94")

06 - Extended bench

07 - Standard Rotary D axis

08 - Heavy Duty Rotary D axis

09 - Maintenance kit

10 - 5 and 10 m cable

11 - Software pack

12 - Protection cover

13 - 8 Inputs / Outputs card

14 - Cycle start pedal

15 - Push button box

16 - Additional holding handle

Displayed model: Multi4 50

MULTI 4 ®
Integrated

Compact, fits perfectly into automated processes

ADAPTABLE

With its small footprint, integration into automated production lines is simple and easy.

EASY TO CONFIGURATE

The Multi4 can be controlled from an external source through the serial port, robot or Ethernet connection.

PRODUCTIVE

Possible to mark several characters per second.

SMART

Real-time Multi4 monitoring for analysis of maintenance needs, stylus wear and detection faults (auto-diagnosis feature with 5 control points).
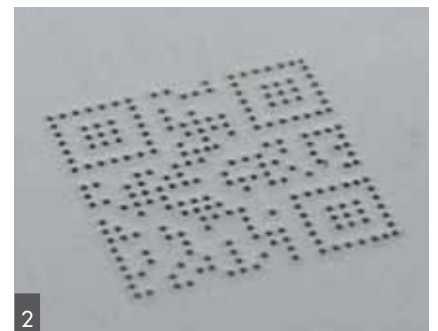
APPLICATIONS

(1) Standard OCR-A marking on steel

(2) Marking of a Q.R code

MULTI *4*®
Integrated

TECHNICAL FEATURES (MULTI4 50)

- Marking window: 1.97" x 2.36"

- Carbide tungsten stylus with 90 degrees included angle (available in 60 and 120 degrees)

	Head
L	5.71"
l	5.67"
H	8.90"
Weight	6.61 lbs

Dimensions given in inches and weight given excluding the cable

POWER AND ENVIRONMENT

- Power : 250 W

- Frequency : 50 to 60 Hz

- Input power : 90 to 240 VAC

- Operating temperature: 32 to 115°F

MARKING HEAD MODELS

- Head 50 (1.97" x 2.36")

- Head 120 (4.72" x 2.36")

- Head 200 (7.87" x 2.36")

- Head 200 XL (7.87" x 7.87")

STANDARDS

- 2006/42/CE «machines» directive

- 2004/108/CE «CEM» directive

- 2006/95/CE «low voltage» directive

- FCC Chapter 15 directive

MULTI4 CONTROL UNIT

- High resolution (640x480) color screen with icon based navigation

- Intelligent handling of the marking   **iD!**

- RS232 connection, 3 Inputs / Outputs, Ethernet (optionnal)

- 2 USB : Device Port & HOST

- Optional 4th axis is available

- Embedded Multi4 software in 21 different languages

- Memory capacity of 40Mb of memory can accommodate up to 20.000 stored, marking files (40 characters, 1 line)

- Maintenance menu : interventions preventive management, self-diagnostic function, dashboard use

- Fast updates in less than 2 minutes through USB port

- Various marking modes: Text, variable data, serial number, data codes, logos and 2D codes

- Straight, angular, circular and radial marking

- « Easy Shift » feature: allows to display text moving in the marking window

- (L x W x H) : 14.57" x 8.46" x 5.47"

- 8.16 lbs (including power cord)

ACCESSORIES AND OPTIONS

01 - Ethernet port

02 - Maintenance kit

03 - 5 and 10 m cable

04 - 90° cable connection

05 - Software pack

06 - Protection cover
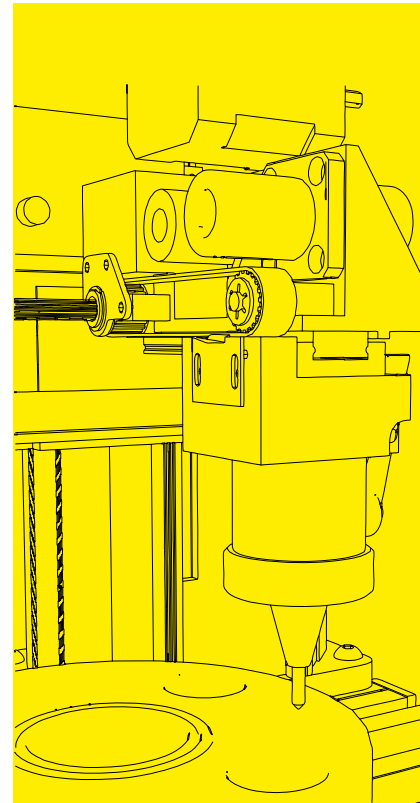
07 - 8 Inputs / Outputs card

CUSTOMISATION

With experienced Engineering and R&D departments, Technomark can develop specific solutions to meet your Direct Part Marking requirements.
We do also propose complete traceability solutions.

In our R&D department, our development team is working in two areas of expertise:

• Custom engineered integration and automation for direct part marking.

• Software adaptation based upon your marking requirements.

(1) Custom engineered solution developed for industrial valves

(2) MEDIKal® solution developed for marking and tracking surgical instruments

READING

TECHNOMARK offers a complete range of the latest reading technology for 1D barcodes, 2D codes including DataMatrix and Q.R codes and standard OCR and OCR-A fonts.

Those reading systems exist both in Hand-held or Fixed version.

Datamatrix code reading

SOFTWARE

Technomark offers a set of software dedicated to:

• Create logos with TECHNOLOG

• Production follow-up with TECHNOPROD

• Datamatrix (2D) encoding with TECHNOMATRIX

• Files transfering and backuping with TECHNOSAVE

• PC based Windows software with TECHNOWINDOWS

MAIN ACCESSORIES AND OPTIONS

Heavy Duty Rotary D axis

Standard Rotary D axis

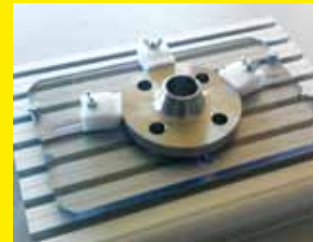*Automatic plate/tag feeder*

Maintenance kit

Z motorized column (3rd axis) for automatic part detection

Bar end tool

Plates support

Parts support

TECHNOmark®
CREATIVE TRACEABILITY

MULTI4®
DOT PEEN & SCRIBING

DAPRA services

Pre Sales

- Feasability study
- Samples making
- On site free of charge tests

After Sales

- Phone support
- Service
- Factory maintenance contract
- Factory or on site maintenance contract
- Product trainings to match with your needs
- Loan of material

TECHNOMARK global presence

Our network is settled in 45 countries

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