

**TECHNO***mark*<sup>®</sup>  
—— smart traceability

**M4***inline*  
PRODUCTION LINE SOLUTIONS



[www.technomark-marking.com](http://www.technomark-marking.com)

## EXPERT IN INDUSTRIAL TRACEABILITY SOLUTIONS

Since 2000, ...

TECHNOMARK has been a leader in the permanent, direct part marking industry. We now release our latest electric dot peen generation, specifically for high-end production lines requirements. We call it M4 Inline...



All our products  
are made in France

### IDI MARK & TRACK :

## Reduce production line stops : it's possible !!!



IDI Mark is the intelligent driving impact developed by Technomark. It analyzes the distance between the part & the stylus, and adjusts automatically the impact force. This ensures a marking quality never known before.

#### CUSTOMER BENEFITS:

- FOR FLAT SURFACES, allows to detect parts dimensional variations.
- FOR IRREGULAR SURFACES, ensures a regular and clear marking on every parts.



IDI Track is an intelligent system capable of Automatic detection of incomplete marking (irregular impact), missing part, broken stylus/worn out spring/ lubrication needs. In this case it will send signal to the PLC.

Work piece out of range !!!  
SEND WARNING  
SIGNAL to PLC



#### CUSTOMER BENEFITS :

- A 40% equipment cost reduction due to no camera requirement.
- Ensures same marking quality on every part.
- Operator peace of mind is guaranteed.
- Maintenance frequency depending on use.



Available on all our models, the IDI Mark&Track technology is your best ally to mark on every hardnesses\*\*

\*Patent n°EP-06 764715.6

\*\* On all materials that have a hardness less than 63 HRC and accept deformation



# M4<sub>inline</sub> YOUR PRODUCTION LINE SOLUTION

## AUTOMATION PACK : ALL IN ONE PROCESS

Technomark is the only manufacturer to allow the control unit to run as a PLC and control its own devices for position of marking head (Z AXIS) and Datamatrix reading camera. This simplifies integration and allow easy control in one interface.



### MARKING APPLICATION

- (1) Marking mounted on robot
- (2) Marking of a QR CODE
- (3) Marking of a serial number







INVESTOR IN PEOPLE

## MARKING HEADS WINDOWS

- Compact 50x55 mm
- Standard 120x55 mm
- Large 200x55 mm

## TECHNICAL FEATURES

	Head 50x55
Length	138 mm
Width	124 mm
Height	225 mm
Weight	3,7 Kg

Weight excluding cable & accessories



## CONTROL UNIT : 2 MOUNTING POSITIONS



• High resolution (640x480) color screen with icon based navigation. External USB keyboard

- 16 BUS CARD
- ETHERNET TCP/IP & RS232
- USB : Device Port & HOST
- ETHERNET IP (option)
- PROFINET (option)



## DISCONNECTABLE HEAD CABLE:

Quick & Efficient Maintenance



## POWER & ENVIRONMENT

- Power 250W
- Frequency : 50 ~ 60 Hz
- Input power : 90 ~ 240 VAC
- Operation temperature : 0°C ~ +45°C

## STANDARDS

- 2006/42/CE «machines» directive
- 2004/108/CE «CEM» directive
- 2006/95/CE «low voltage» directive
- FCC Chapter 15 directive

• Memory: 40Mb : (20.000 files (40 ch, 1 line)

• Maintenance menu: self diagnostic menu, preventive maintenance alarm, debug function

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

• Straight, angular, circular and radial marking

• « Easy Shift » move stylus while setting position

• (L x W x H) : 240 x 245 x 110 mm  
2,8 kg (including power cord)

## ACCESSORIES & OPTIONS



Electric linear axis (200mm run)



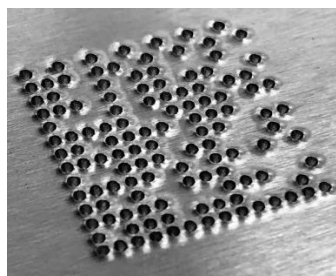
Large choice of styluses



Rack mount fixation



Maintenance Kit



Datamatrix marking & reading



Logo software



# DESIGNED FOR INTEGRATION SPECIFIC PURPOSES

## 16 BUS CARD : OPTIMIZE YOUR INTEGRATION

M4 inline is the first inline marking equipment with a 16 bus card, making it virtually a mini-PLC to configure input output signal flow on demand

### CUSTOMER BENEFITS:

- IO can be configured by function required
- 30% time saving in installation.
- Reduction of global investment for automatism or limitation in wiring

Number	IO	Function
1	- input +	start
2	- input +	stop
3	- input +	Test
4	- input +	File Open
5	- input +	File Open
6	- input +	File Open
7	- input +	File Open
8	- input +	File Open



## UPGRADE with 2 new interfaces : Ethernet IP & Profinet (optionals)

Higher speeds, more data transfer within a shorter amount of time, and real time multi-devise management are the core of the 4.0 industry. M4inline is aiming at being the high standard dot marking solution that can make it happen.

## AUTOMATIC DEBUG MODE & ERROR LOG : PIN POINT PLC COMMUNICATION ISSUES

Software function to debug during integration by showing RS232 communication frames received by controller and the changes in IO (Input Outputs). During production, can record up to 1 month of PLC communication exchange to monitor activity 24/7, even when PLC operation cannot be monitored.

Error Log	
9/10/2015 - 16:24:20	EEPROM: power reading
9/10/2015 - 16:24:20	Error code 64
9/10/2015 - 16:24:20	Writing battery option
9/10/2015 - 16:24:20	Marking head: broken cable
9/10/2015 - 16:24:20	Marking head: broken cable
8/12/2015 - 2:22:48	EEPROM: CPU reading
8/12/2015 - 2:22:48	EEPROM: CPU reading
8/12/2015 - 2:22:48	EEPROM: power reading
8/12/2015 - 2:22:48	EEPROM: power reading
8/12/2015 - 2:22:48	Error code 64
8/12/2015 - 2:22:48	Writing battery option
8/12/2015 - 2:22:48	Marking head: broken cable
8/12/2015 - 2:22:48	Marking head: broken cable
9/12/2015 - 3:27:44	EEPROM: CPU reading
9/12/2015 - 3:27:44	EEPROM: CPU reading
9/12/2015 - 3:27:44	EEPROM: power reading
9/12/2015 - 3:27:44	EEPROM: power reading
9/12/2015 - 3:27:44	Error code 64
9/12/2015 - 3:27:44	Writing battery option
9/12/2015 - 3:27:44	Marking head: broken cable
9/12/2015 - 3:27:44	Marking head: broken cable





**Technomark France**  
**Technomark USA**  
**Technomark ASIA PACIFIC**  
**Technomark's 47 countries network**  
**your global supplier**



#### **Pre Sales**

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

#### **After Sales**

- Hotline
- Factory or onsite repairs
- Maintenance contract
- Product trainings & life time support

#### **TECHNOMARK**

*(headquarter & manufacturing)*

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