



WIRELESS PORTABLE DOT PEEN MARKING SYSTEMS



CONNECT.series[®]

Focus on APAC market success stories

v1.6a uk

1. COMPANY PROFILE



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All products from the trademarks “Connect, MULTI4, M4inline” are manufactured exclusively by TECHNOMARK in FRANCE.

Since 2000,

*Technomark has become
a world reference in the
permanent marking industry.*

Technomark bases its
expertise around **3 cores** :

- ❖ Permanent marking (DPM)
- ❖ Reading & verifying
- ❖ Customized solutions

Experience in multiple industries

- Automotive
- Steel industry
- Construction
- Oil & gas
- Energy & Nuclear
- Aerospace



DOT-PEEN



LASER



SCRIBING



VISION





KEY FIGURES



47 COUNTRIES

- Sales network in 47 countries : Efficient & responsive
- 100 business partners (sales & suppliers)

12 M€ sales

- Over 12 millions € sales (inc partners)
- 10% yearly growth on average

10% R&D

- 10 % of turnover dedicated to R&D
- 25% of staff on new product development

9 000

- 9.000 customers worldwide
- Over 20.000 marking units in the world

A GLOBAL SUPPLIER

- Ability to cover technically & commercially **global customers** in any country with same level of service
- Same level of **product quality** worldwide (only French manufactured)
- **4 Technnocenters** in the world : France, USA, Japan, China.



→ PRODUCT RANGE

➤ WIRELESS DOT PEEN MARKING



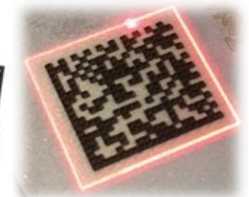
120 x 60mm

60x30mm

➤ 1D/2D READERS



➤ LASER MARKING



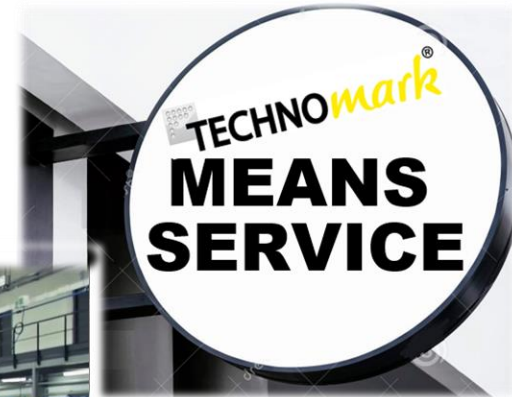
➤ DOT PEEN MARKING



→ TECHNOMARK **SERVICES** to support production line

Technomark understands the specific requirements of your industry :

- 👍 TRAINING & COMMISSIONING
- 👍 SPARE PARTS & BACK UP ONSITE
- 👍 ONSITE/IN-HOUSE MAINTENANCE



**= BEST T.C.O
ON THE MARKET**

2. **CONN**ECT.series®

- ❖ **KEY CONCEPT PORTABLE USAGE**
- ❖ **SOLUTION ADVANTAGES**



#industry 4.0

All products from the trademarks "Connect, MULTI4, Flexmark & M4inline" are manufactured exclusively by TECHNOMARK in FRANCE.

➤ KEY CONCEPT (M.C.I)



- ❖ **Mobility** : *No marking head cable*
- ❖ **Convenience** : *User friendly, powerful HMI*
- ❖ **Interface** : *connected to information system*



➤ **KEY USAGE : indoor marking around production area**

- ✓ **Mobility within 10meters radius of the production / marking area**





KEY USAGE : indoor marking

**IN ANY POSITION
ON ANY SURFACE**



EASY!



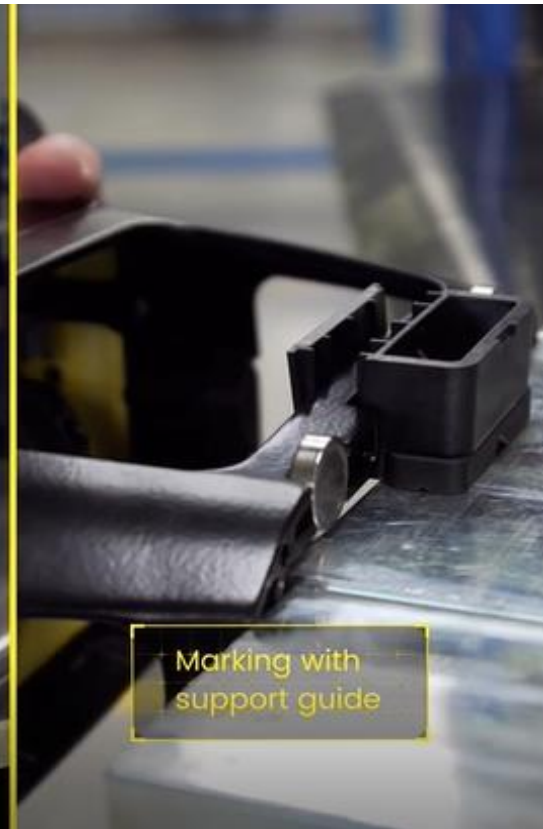
...wireless

CONNECT.series®



KEY USAGE : indoor marking WITH MULTI PURPOSE JIG

- ❖ Anti-slip pads
- ❖ Rubber V shape for pipes
- ❖ Positioning clip for marking on parts edge



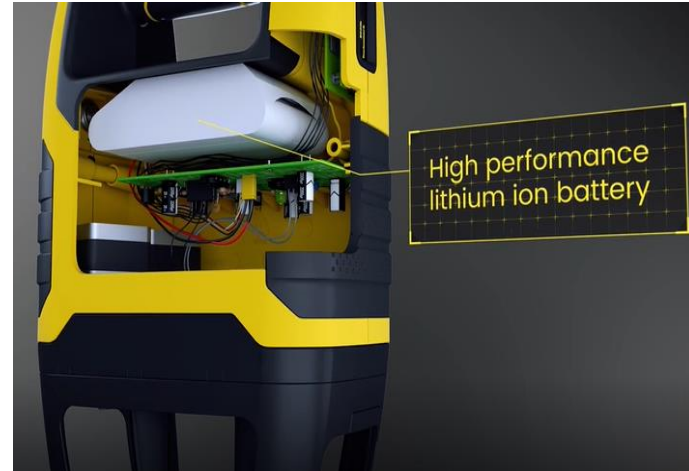


EXCEPTIONAL BATTERY PERFORMANCES



- High quality lithium battery
- Fast charge (0 to 50% in 40mins)
- High autonomy & stability

→ **AUTONOMY MORE THAN
DOUBLE AS STANDARD
RECHARGABLE BATTERIES**



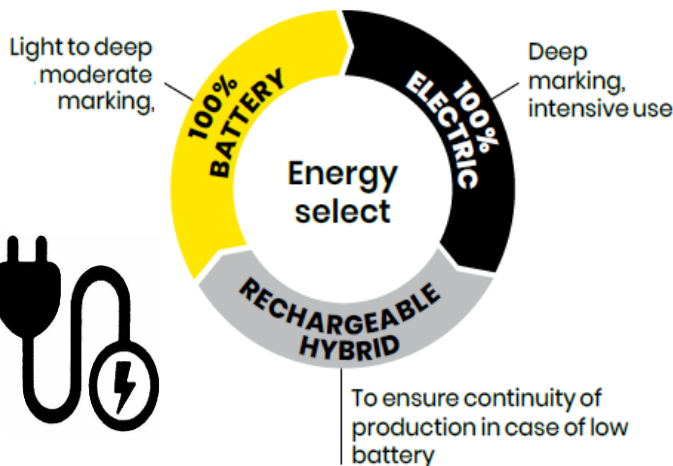
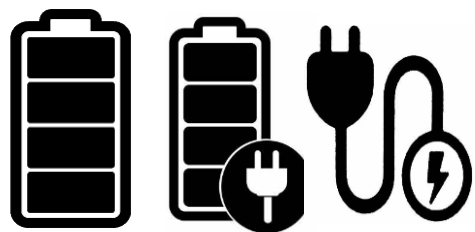
TEST ENDURANCE

- 10 characters
 - Height= 5mm
 - Matrix dot 5*7
 - 0.1mm depth on steel S235 (middle impact force)
- = up to 800 cycles in one full charge





HYBRID BATTERY



HYBRID RECHARGEABLE HELPS FINISH YOUR MARKING WORKLOAD



USEFUL BATTERY MONITORING

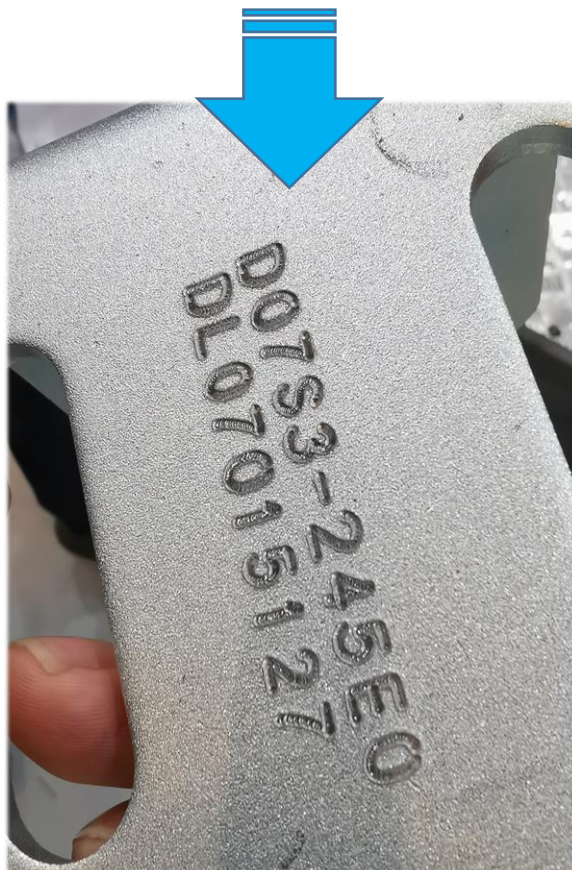
- «BMS» (battery monitoring system) is embedded intelligence for battery
- Allow to know charging status & health status of the battery (Soh).





POWERFUL DEEP MARKING

- ✓ **BEST marking depth performance** amongst wireless machine
- ✓ Suitable for requirement where paint or shot blasting is required.
- ✓ Multi dots function available for even deeper marking





SMART MAGNETS DESIGN

x4 integrated permanent magnets
(fixed by screw ; can be removed)



Easy to fit in,
Easy to take out

Note : magnets are for support to operator, who shall keep one hand on machine. Not calibrated & guaranteed to hold marking head by itself



MARKING UN-EVEN SURFACES

IDI** (Intelligent Driving Impact) : the machine adapts to the shape of the part & offers consistent quality marking over a range 3~8mm.





POWERFUL INTERFACE FOR DATA INPUT (i)

BLUETOOTH / WIRED 1D/2D READER

- Quick data input
- No mistake
- Cordless. 35meters range
- Scan 1 or several lines
- Can input content and/or open file
- Strong and reliable



EXCEL (CSV) WITH USB KEY DATA INPUT

- Quick input of large amount of data
- No mistake.
- Effortless
- Wireless
- Can include 1 or several columns



POWERFUL INTERFACE FOR DATA TRANSFER (ii)

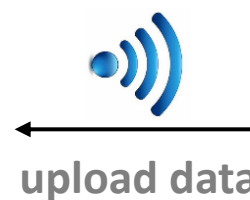
MARKING SYSTEM FUTURE IS MORE CONNECTIVITY

Connect marking & information system will increasingly be a critical feature of traceability.

#connected factory
#industry 4.0



DATABASE, HOST PC
MES
Manufacturing Execution System



PLC (data collect)

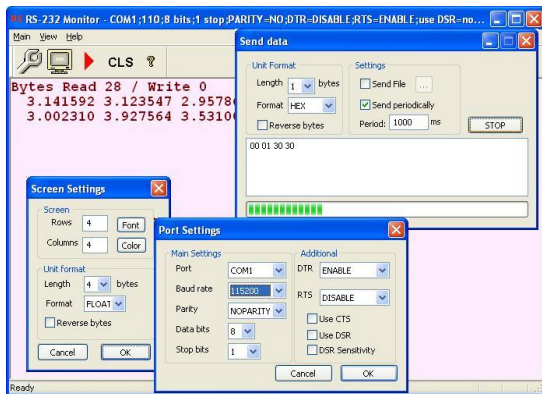
TCP/IP Protocol



POWERFUL INTERFACE FOR DATA TRANSFER (ii)



MES
Manufacturing Execution System



TCP/IP



Technomark Controller can input & output data & signals.

Intermediary software is required to request data from MES SYSTEM & send commands to marking machine

26 available commands to fully control input & outputs of data & signals:

- * Open & close & save file
- * Input of marking content into variable
- * Output of marking content from variable
- * Input serial number
- * Start, stop, pause marking
- * Input marking parameters
- * output maintenance status of machine
- *
- ...



Marking data





OUTDOOR USAGES :

App version (available soon)

- No Controller
- * Download APP from ANDROID smart phone



Outside usage





LOW MAINTENANCE RUNNING COST



FEWER PARTS SENSITIVE TO POWER FLUCTURATIONS :

- ❖ No marking head cable
- ❖ No facade keyboard
- ❖ No controller driver card

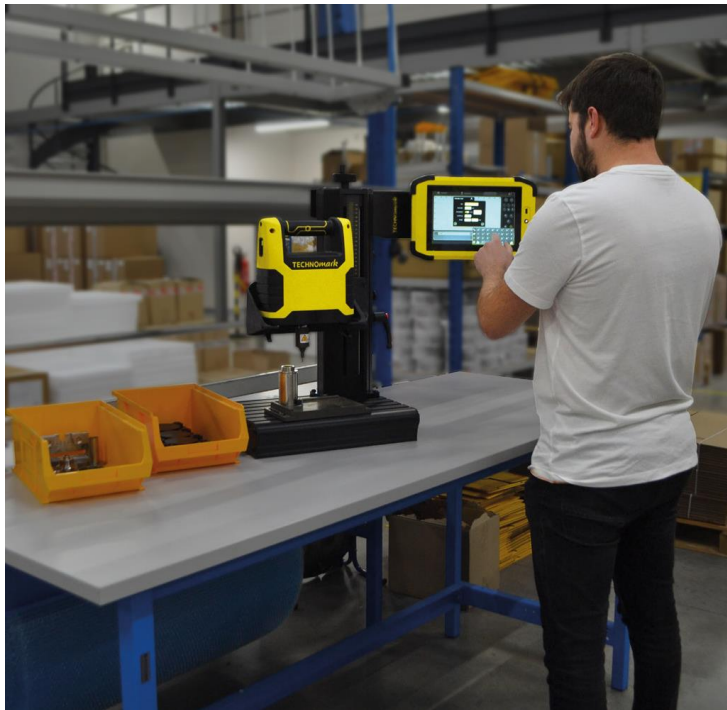


**= BEST T.C.O
ON THE MARKET**

3. **CONNECT**.series[®]

❖ **COMBO 2in1 USAGE**

❖ **SOLUTION ADVANTAGES**



#industry 4.0

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UNIQUE DESIGN TO CHANGE CONFIGURATION IN 20 SECONDS

PORTABLE /
HAND-HELD
MACHINE



IN 20 SECONDS



BENCH TOP /
STAND ALONE
MACHINE





Combo 2in1 BENCH KIT



Marking of small to medium-sized parts : up to 290 mm high as standard, optional 150mm column extension

Quick Shift function : Easy and quick height adjustment of the column when changing to different sized parts

Marking window : 120 x 60 mm

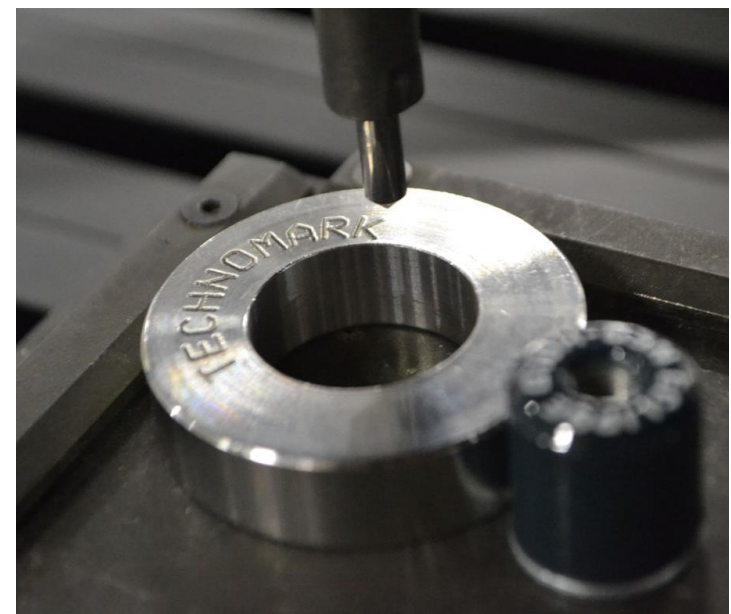
Ergonomic base : Mounting of various accessories: plate holder, rotary axis and other clamping systems

Easy Shift function : Stylus simultaneously moves as the text is re-positioned on screen



Combo 2in1

BENCHTOP MODE Make the choice for precision



4. CUSTOMIZE YOUR MARKING WORK STATION



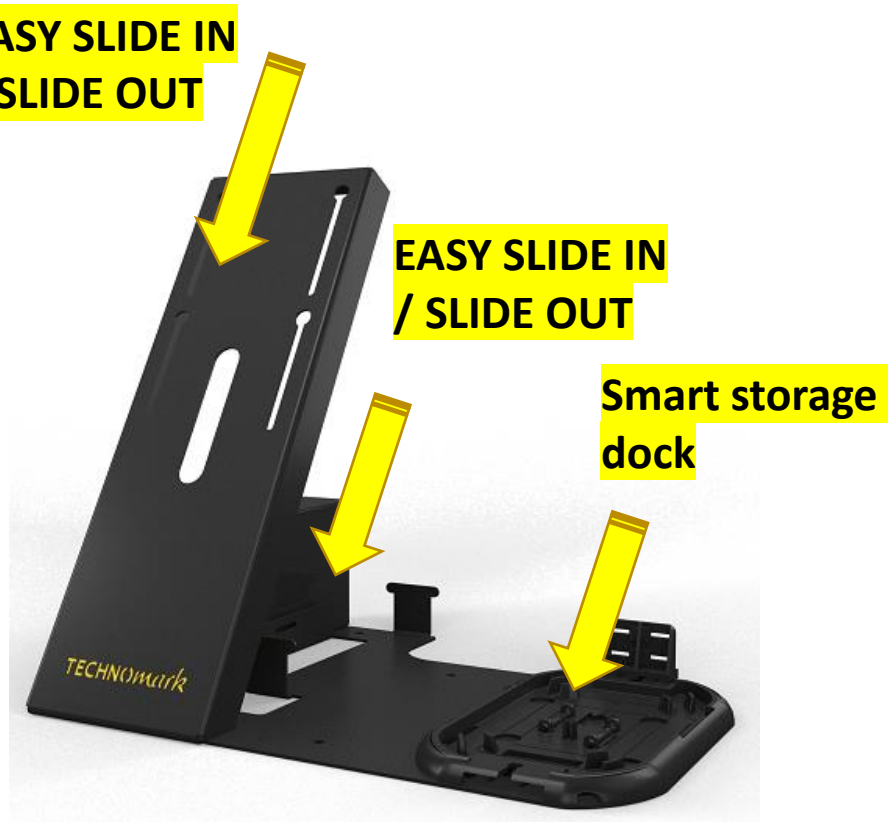
#industry 4.0



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4.1. Advanced controller stand + storage dock for marking head

Keep machine clean & in order :
Mobility but without leaving
machine on the floor or dirty place



CONNECT.series®

4.2. STAND UP PREMIUM HOLDER

1D 2D READER HOLDER

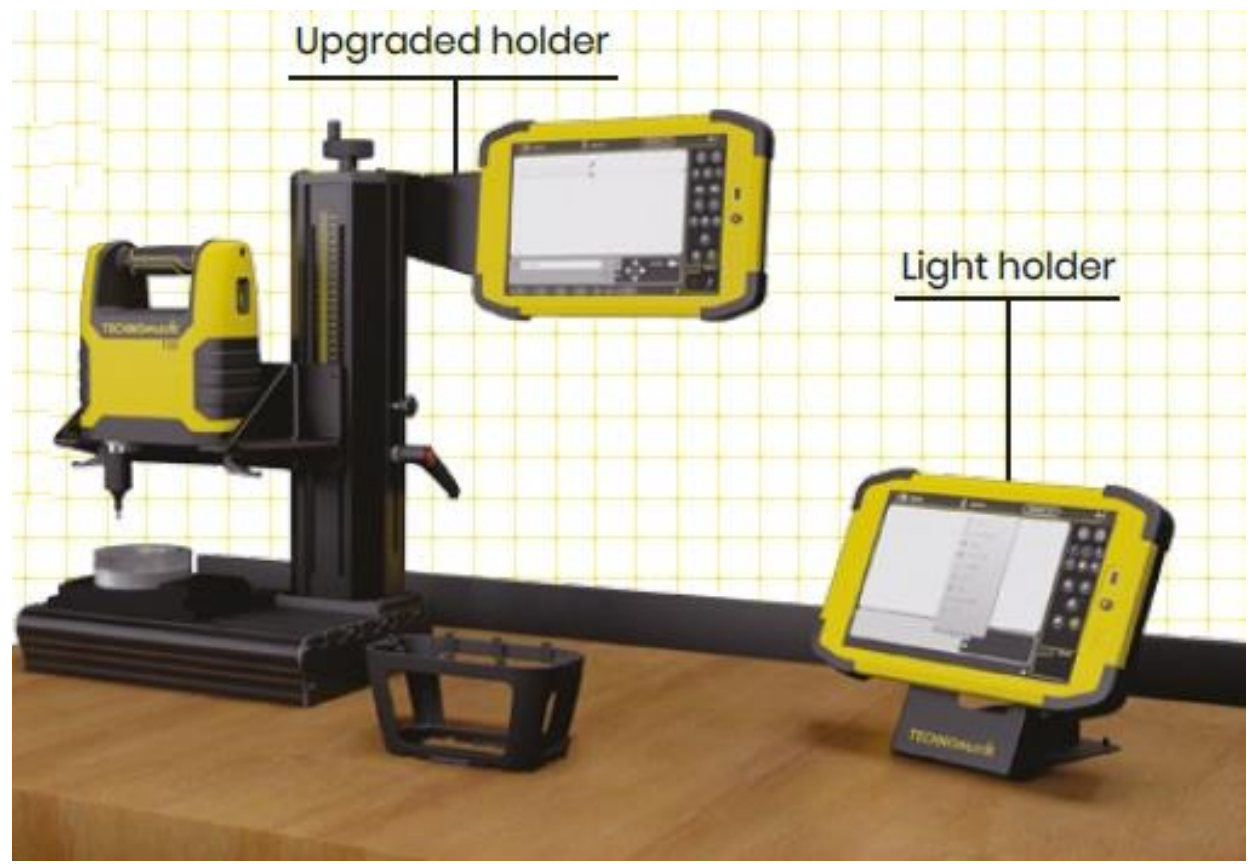


- Ideal for VIN number marking
- Allow stand up position, ideally ergonomic.
- Bar code reader can be stored at the top
- All wiring for controller & head charger are inside : clean & neat



CUSTOMIZE YOUR COMBO 2in1 MARKING WORK STATION

Full holder :
trolley & benck table & column



MAGNETIC & AIR SUCTION JIGS

- *Suitable for deep marking*
- *Convenient, very resistant & wireless !*



Standard JIG



Aluminum JIG



*Standard JIG
Air suction for non
ferrous material*

4.4. SOFTWARE OPTIONS

CONNECT.series®

LOGO : create & mark logo

ERROR REPEAT CHECK : notification when content previously marked

DATAMATRIX : ability to create & mark datamatrix / Qr code

FONT GENERATOR : ability to customize marking fonts

EXCEL WITH USB STICK : create excel file of data and upload by usb

NETWORK : Access MARKING files & CSV files on network, instead of controller & usb key. Purpose : make transfer programming easier, centralize information to avoid data leak

PREVENTIVE MAINTENANCE : monitoring maintenance data

PRODUCTION RECORD : marking content & log to be exported later

RFID SESSION USER : access magnetic key for supervisor

5. TECHNICAL DATA SHEETS



CONNECT.series®

MARKING HEAD FEATURES

ULTRA LIGHT WEIGHT:



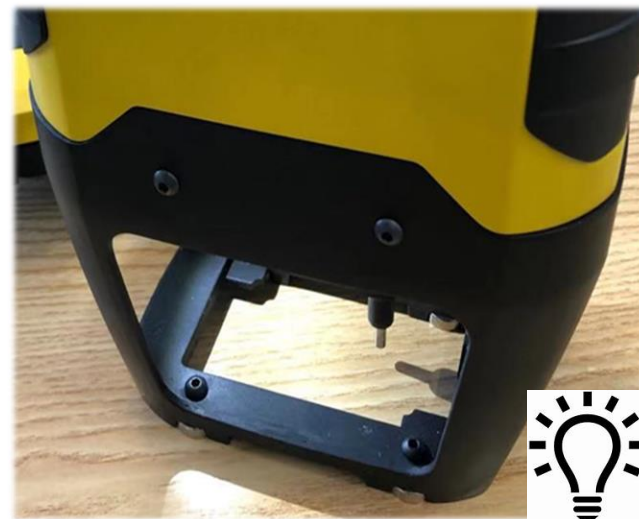
- ❖ 120x60mm: 3,2Kg
- ❖ 60x30mm : 2,8Kg
- ❖ Lateral bumper protections

HEAD SIDE SMALL OLED SCREEN:

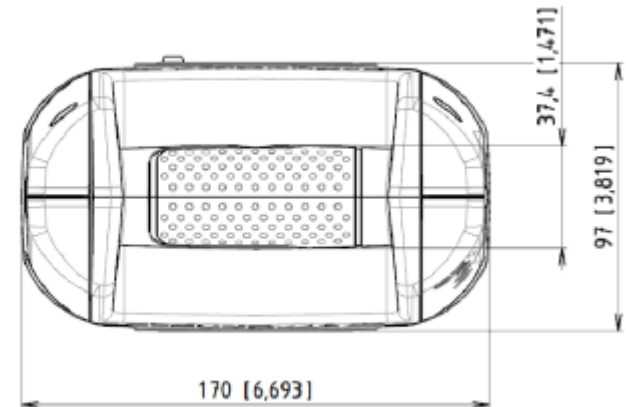
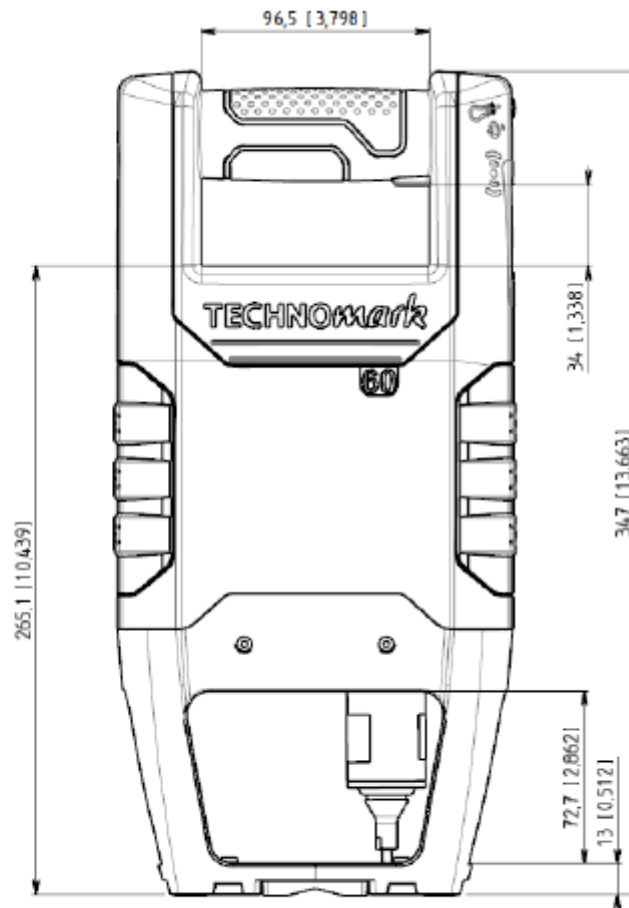
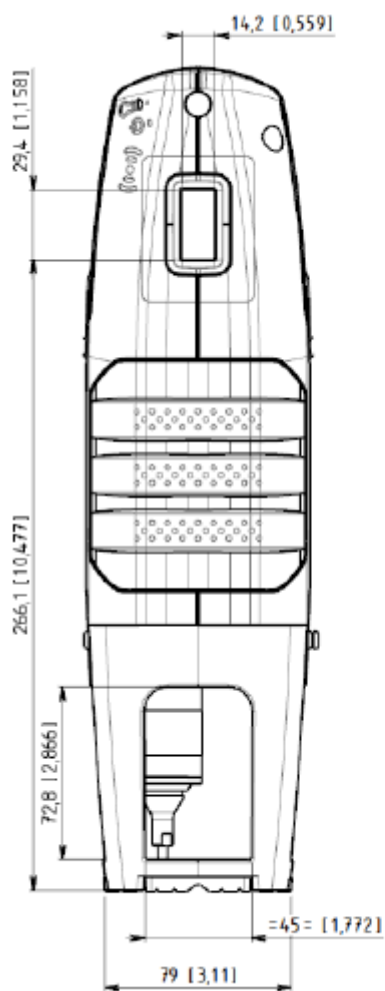
- ❖ Wifi signal indicator + battery indicator
- ❖ Marking content & file name (can customized)

LED LIGHT

- ❖ Powerful LED to illuminate marking area.
- ❖ Automatic ON/OFF at marking start/stop, or manual by side button



Marking head 60x30mm

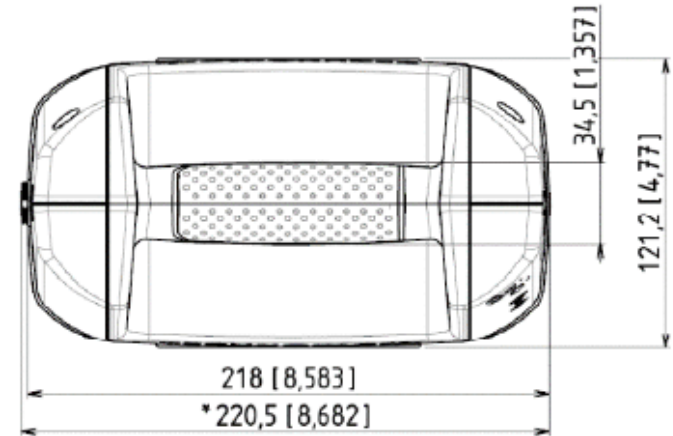
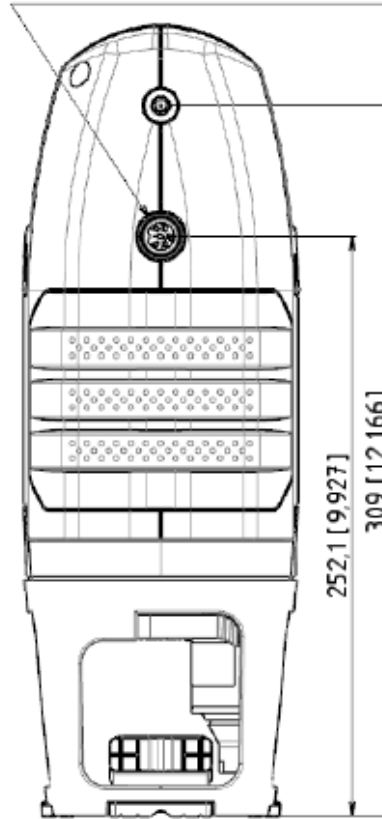
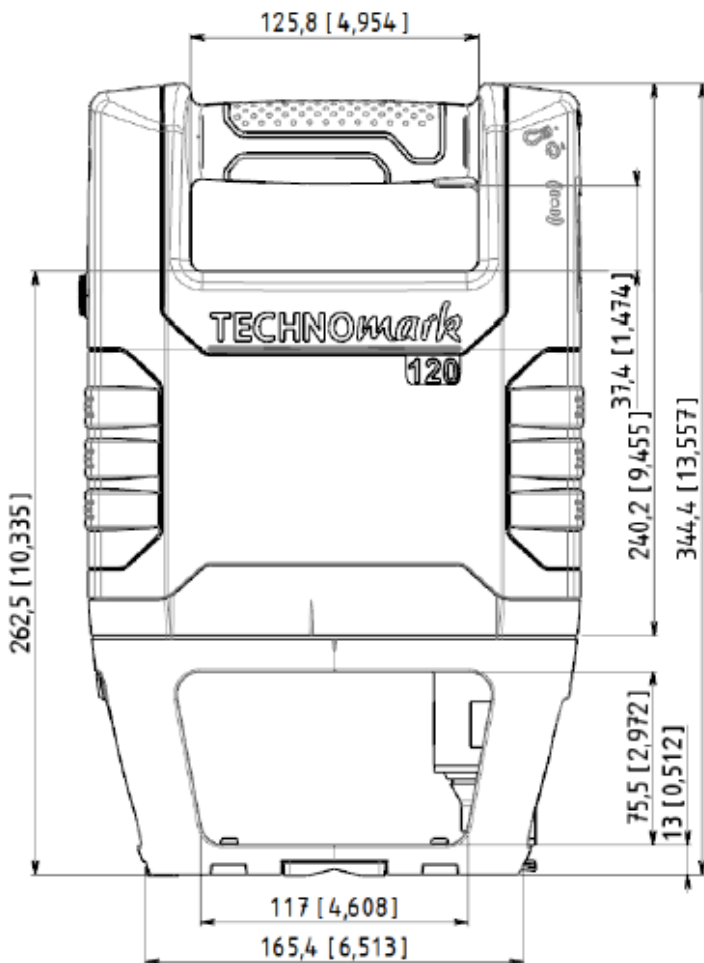


This item includes:

- 1 carbide stylus
- 2 pairs of locating V's
 - for bar $\varnothing 15\text{ mm}$
 - for bar >math>\varnothing 15\text{ mm}</math>
- 1 support guide accessory
- 4 support magnets
- 1 storage dock
- 1 power supply

Marking head 120x60mm

*Connecteur accessoire sur CONNECT 120D uniquement
*Connector for accessories on CONNECT 120D only



This item includes:

- 1 carbide stylus
- 2 pairs of locating V's
 - for bar $\varnothing 15\text{ mm}$
 - for bar >math>\varnothing 15\text{ mm}</math>
- 1 support guide accessory
- 4 support magnets
- 1 storage dock
- 1 power supply

Technical specifications

| Name | Dimensions mm (in) | Weight kg | Marking window mm |
|--|---|---|-------------------|
| 120 marking head | 344.4 (13.55) × 218 (8.58) × 121.2 (4.77) | 3.2 | 120 x 60 |
| 120D marking head | 344.4 (13.55) × 220.5 (8.68) × 121.2 (4.77) | | |
| 60 marking head | 347 (13.66) × 170 (6.69) × 97 (3.82) | 2.8 | 60 x 30 |
| Capacity: <ul style="list-style-type: none"> - Integrated 22V lithium-ion battery - Connection to the controller by Wifi (10 m maximum), current file stored in the head - Machine/controller pairing via RFID - Customisable on-board information screen*: marking information, network, battery, etc. - Adjustable integrated LED lighting: manual activation, automatic, time setting - 11 marking forces, up to 0.55 mm deep (aluminium AU4G 75HB) - 3 levels of speed - Multifunctional support foot: centring on X or Y tube generator via interchangeable V, support guide at end of bar, holding magnets (max. force: 32 kg) - Fixed stylus distance, max stylus stroke 12 mm - IDI on stylus-to-part distances from 3 mm to 8 mm | | Environment and power: <ul style="list-style-type: none"> - Operating temperature: 0°C to 45°C - Battery: 85 Wh - Power supply for charging and marking: 90 V to 260 V - 50 Hz to 60 Hz - 300 W | |
| | | Options and accessories: <ul style="list-style-type: none"> - Stylus with 60°, 120° and aeronautical sharpening angle - Maintenance kit (2 springs + 2 stylus of choice) | |
| | | Standards: <ul style="list-style-type: none"> - Machinery directive: 2006/42/CE - Electro-magnetic compatibility: 2014/30/UE - Low power directive: 2014/35/CE - FCC directive- chapter 15 | |

*Function associated with a licence

Version 1.0 – 12/17/2021



CONNECT.series®



- ❖ Light weight
- ❖ Industrial PLC tablet
- ❖ Full wifi
- ❖ Touchscreen
(external keyboard ok)
- ❖ Weight : 1kg



- ❖ Side rubber protections



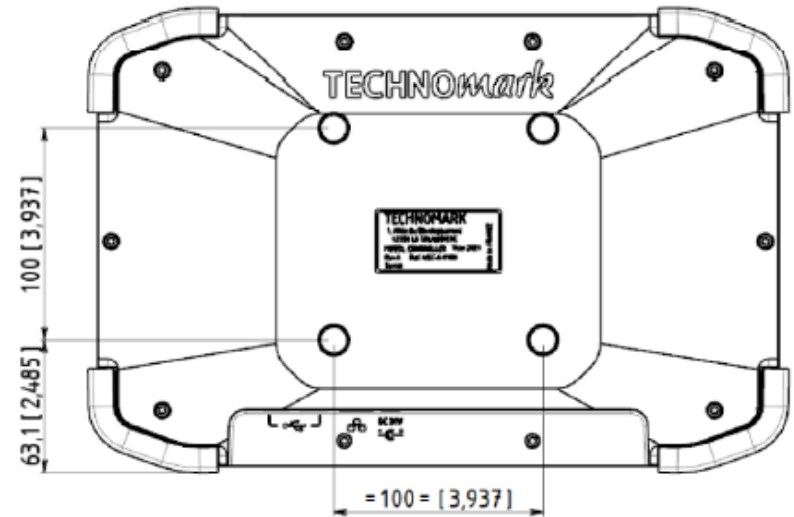
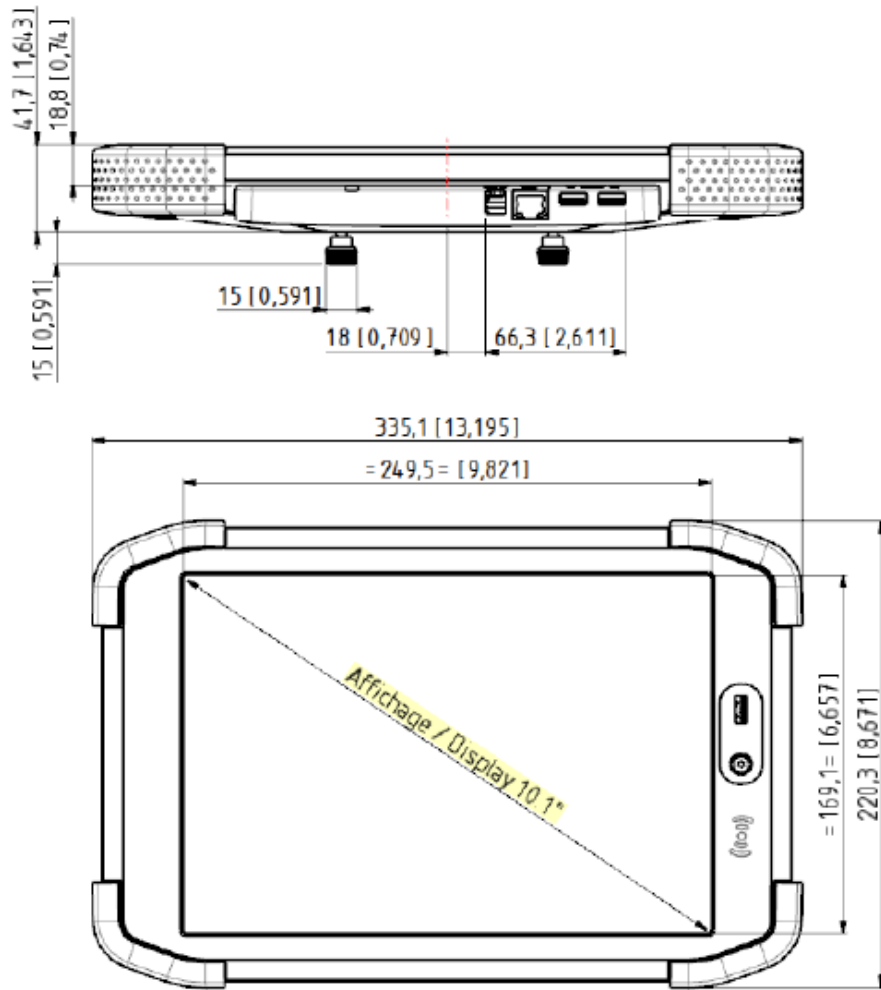
SOFTWARE

- ❖ MAIN WINDOW SCREEN.
- ❖ Very lean & visual display



Touch screen
can be locked

CONTROLLER FEATURES



This item includes:

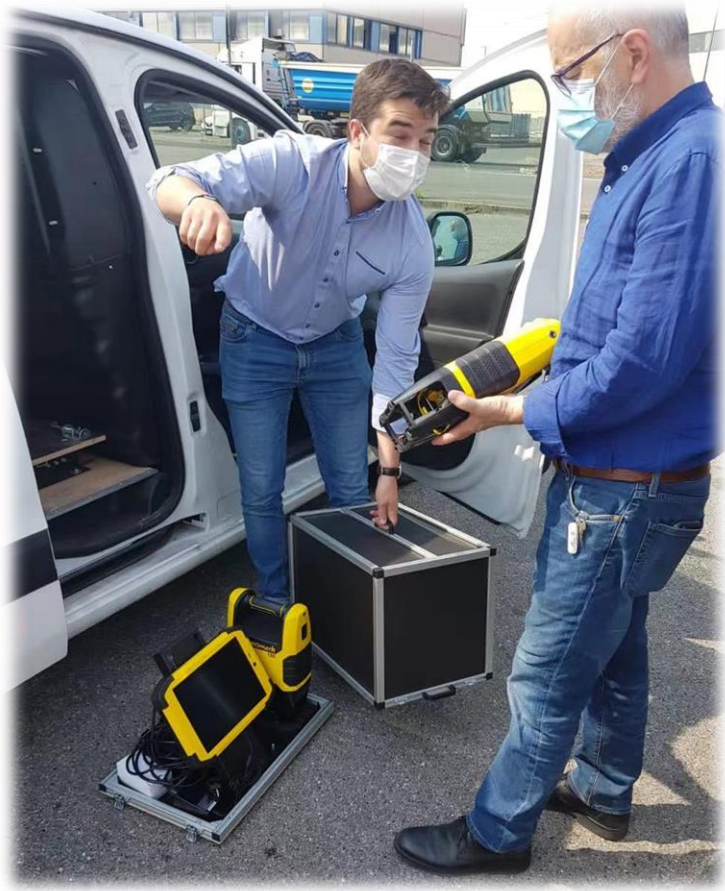
- 1 power supply
- 4 knurled knobs for bracket mounting

Technical specifications

| Name | Dimensions mm (in) | Weight kg | Screen size |
|--|--|---|-------------|
| Control box | 335.1 (13.19) × 220.3 (8.67) × 41.7 (1.64) | 1 | 10.1" |
| Capacity: <ul style="list-style-type: none"> - Head connection via Wifi (10 m maximum) - Identification, controller/head pairing by RFID - 1 RJ45 port for Ethernet connection - 3 USB ports, (1 front, 2 at the back) for connection of: <ul style="list-style-type: none"> o USB stick for importing and exporting files and marking data* o Input device: keyboard, 1D/2D reader - Display <ul style="list-style-type: none"> o 10.1" touch screen o WYSIWYG display with customizable dashboard* - VESA 100 compatible mounting: different supports available - Production of marking files that can contain: <ul style="list-style-type: none"> o Linear or radiating alphanumeric texts o Serial numbers o Time stamping, shift scheduling o 2D codes* o Logos* - « Easy Shift » function: real-time visualisation on the machine of the positions and movements of the element being edited - Programmable character height - 4 matrix fonts: 5×7, 9×13 (OCR/OCR-A), Arial - 1 vector font with point density setting - Storage capacity: 2 Go | | Environment and power: <ul style="list-style-type: none"> - Operating temperature: 0°C (32°F) to 45°C (115°F) - Power supply: 85 V to 264 V - 50 Hz to 60 Hz - 25 W | |
| | | Licenses: <ul style="list-style-type: none"> - Logo marking - Logo creation - Datamatrix - « Font Creator » - « Custom HMI » - « RFID - Log on head » - « RFID - Data input » - « USB-CSV manager » - « USB Production tracker » - « Duplicate check » - « Network access » | |
| | | Standards: <ul style="list-style-type: none"> - Machinery directive: 2006/42/CE - Electro-magnetic compatibility: 2014/30/UE - Low power directive: 2014/35/CE - FCC directive- chapter 15 | |

*Function associated with a licence

6. APPLICATIONS & CASE STUDIES



EXPERIENCE SHARING
DEMO TESTS AT CUSTOMER SITE
WITH CONNECT SERIES 60 & 120....



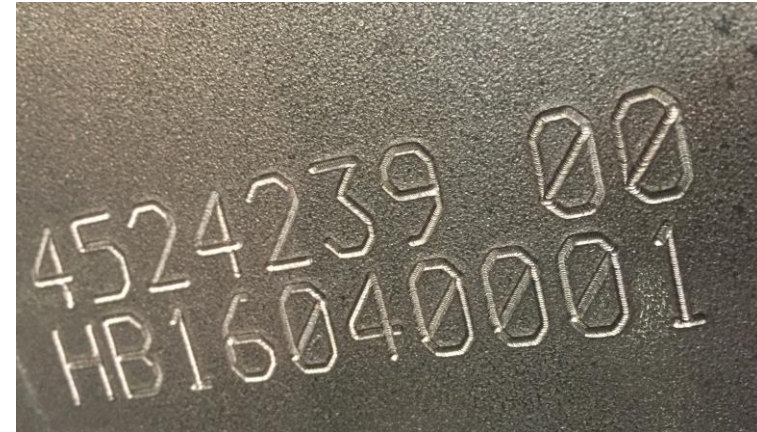
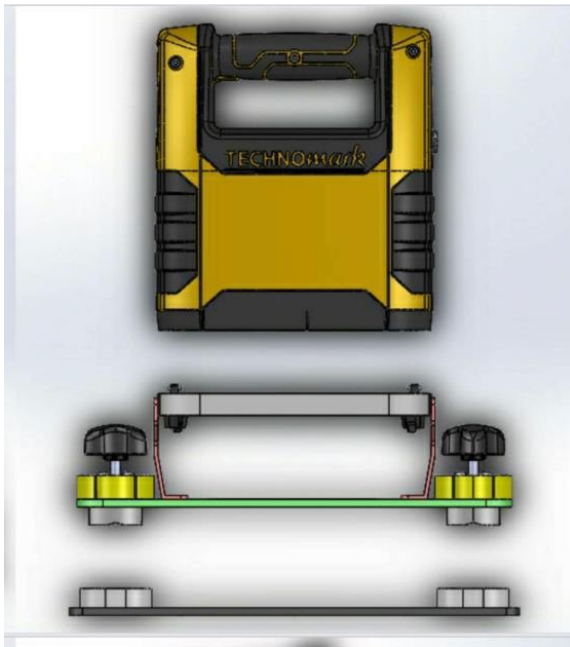
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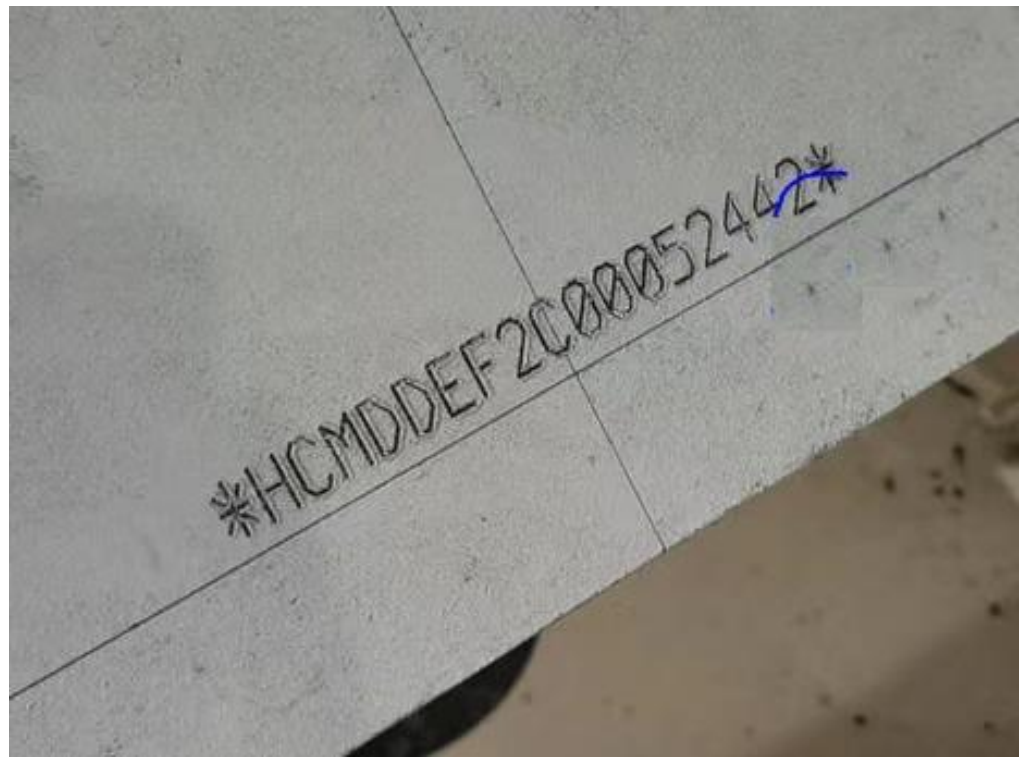
- HEAVY DUTY REQUIREMENTS
- DEEP MARKING, TOUGH ENVIRONMENT

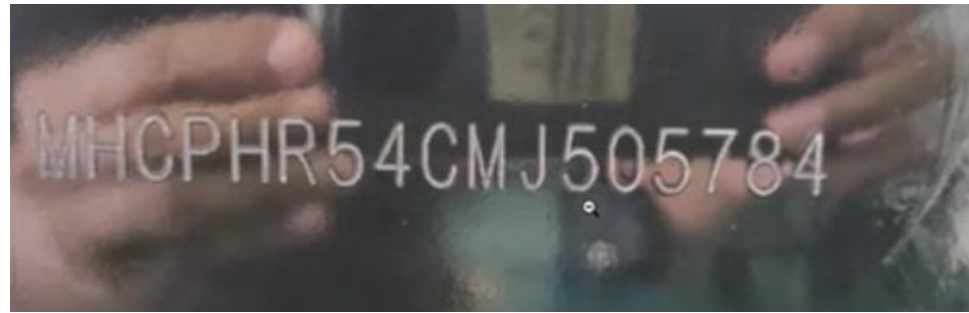
CHINA, USA, BELGIUM,
INDONESIA, JAPAN
BRAZIL, ARGENTINA, UK, **INDIA**



- HEAVY DUTY REQUIREMENTS
- SPECIAL MAGNET FIXTURE
- DEEP MARKING, TOUGH ENVIRONMENT
- PAINTED & NON PAINTED SURFACE

- HEAVY DUTY REQUIREMENTS
- DEEP MARKING, TOUGH ENVIRONMENT





- VIN number marking for truck trailers
- Need to avoid repeating same VIN marking
- Difficult to access marking area : benefit of wireless



- Mitsui Engineering & Shipbuilding
- Marking unique tracking number
- Horizontal position on curved surface
- Deep marking to resist tough environment



Axial Flow Compressor



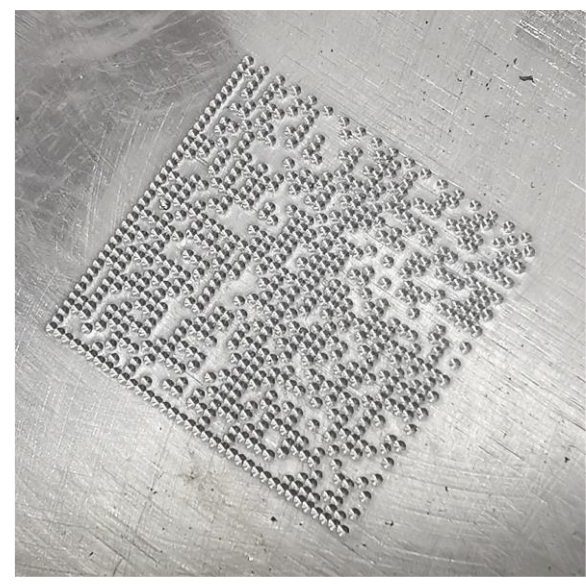
Top Pressure Recovery Turbine Generating





**Special steel material for
Aeronautic & power industry**

Marking on steel parts
Datamatrix 65 characters, 25mm side
Excellent readability





Construction equipment/ excavator

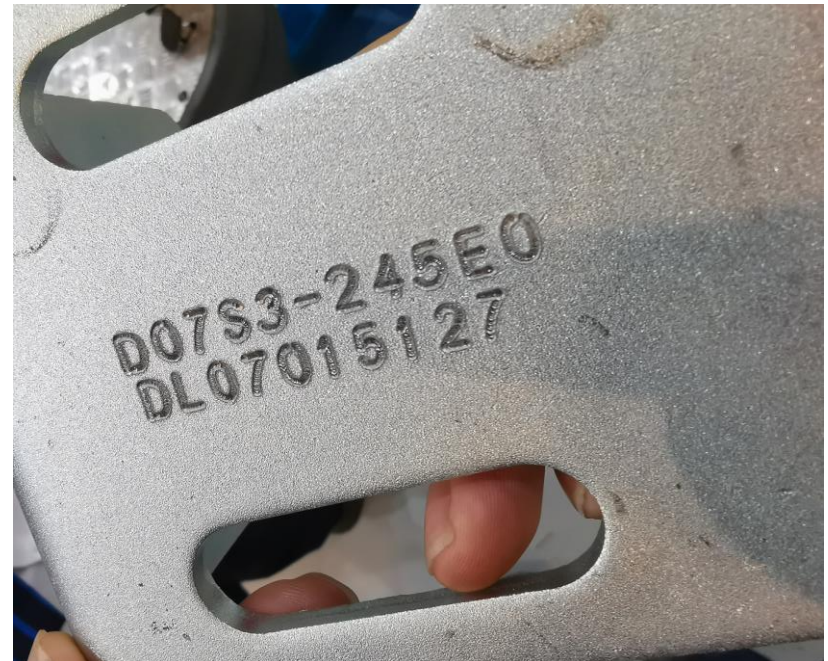
Marking on excavator engine after assembly.

Aluminum surface

2 lines of 11&10 characters

Connect 60x30mm KEY POINTS OF INTEREST

- Marking head size to access narrow area
- Font customization (Song Font)
- Interface suitable to connect to MES System, while being portable system at same time
- Very stable JIG

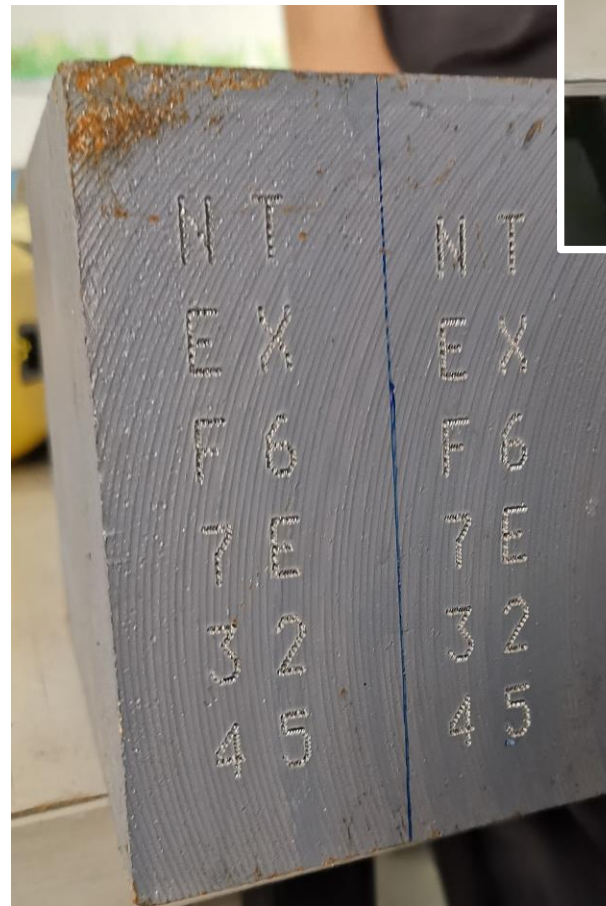


structural steel industry

Marking on steel parts

Looking deep mark to pass sandblasting

2 lines of 6 characters



Connect 120x60mm
KEY POINTS OF INTEREST

- Marking head size enough to be suitable for narrow work pieces
- No cable, useful for large factory
- Deep marking

COME & ASK FOR FREE *ONSITE DEMONSTRATION*



THANK YOU FOR YOUR ATTENTION

TECHNOmark[®]
—— smart traceability

Technomark Group (France, HQ & manufacturing)
Technomark Asia Marking Equipment Trading (Shanghai) Co. Ltd
Technomark Inc (USA)



INVESTORS
IN PEOPLE

