

[Marking products]

Dot marking technology is a most flexible and time saving method of marking various components. Dot marking is also called peen marking, stylus pin marking or micro-percussion marking. This technique intends a series of dots into materials to form human readable alphanumeric identification, logos and 2D data matrix codes.

The Marktronic system is well known in various industries where a high quality of marks must be reached. These machines work extremely reliable due to its robust construction.

The marking depth can reach 1 mm in mild steel, 1.5 mm in aluminium on flat or uneven surfaces. These machines are available either electrically or pneumatically powered.

These machines are easy to operate and need only a minimum of maintenance. Due to large scale production and therefore decreasing prices, this technology is already used for numerous applications in the industrial production process. The software of the machines is easy to handle, even newcomers are able to reach high-quality markings within shortest period.

Bench mounted dot marking machine

With a bench mounted dot marking machines, flat workpieces and even conical components can be marked. The marking head itself is fastened on a robust column. Each workpiece must be loaded and unloaded manually to the working table. The Z-axis of the machine is adjusted to the component to be marked. A wide range of options simplify the fixture and the marking of the component.

This machine is typically used for marking name plates, identification plates, small work pieces and many more. This size of the plate or component may vary, the maximum size which can be marked is 300x150 mm.

Each dot marking machine can either be programmed with a familiar PC windows interface or manually with a controller.

Portable dot marking machine

Portable dot marking machines have a patented aluminium marking head protected in a tough polymer case. With this portable marking head, you do not have to transport heavy items to the marking machine (like with the bench mounted dot marking machine). In this case, the marking head with only 2.3 kgs is transported to the workpiece for on-site marking.

In-line dot marking unit

Marktronic integrator dot marking units can be installed in assembly lines and customized production lines for the 24/7 usage.

Dot marking machine



Advantages

- High flexibility
- Easy to use
- Quick installation
- User-friendly service
- Software based on Windows software
- Extensive accessories
- Huge number of marking options
- High marking speed
- Electromagnetically driven, compressed air necessary
- Pneumatically driven marking machines for even more power

Applications

- Programmeable marking
- Component identification
- Component traceability
- Serial numbering
- Logo marking
- Security marking
- Health & safety appliance marking
- Certification marking
- Trophy and award marking
- Time and date marking
- Batch and shift coding
- Part numbering
- Calibration systems
- Label and tag marking
- Direct part marking
- Steel stock marking



[Marking products]

Dot marking machine

Dot marking machine MarkMate USB

The MarkMate USB is a bench mounted dot marking machine for a wide range of industrial and commercial applications.

The USB connectivity brings printer like functionality to the field of component marking. The marking area of 100 mm by 75 mm allows multi-component marking. The MarkMaster software is simple to use and offers many options to the operator. Operator training is minimized and production efficiency is maximized. The multilingual user interface allows users to choose between different character fonts and type sizes as well as angular and arc marking, serial numbers, date and time marking. Variable force control ensures the optimum mark depth for all engineering materials up to 62 Rc. The lead-screw driven marking head guarantees dot precision unmatched on other low cost systems.

The MarkMate USB requires no air supply and is powered only by a standard 220 Volt electric source. Therefore, these machines operate significantly quieter than pneumatically powered systems.

This marking unit is easy to use out of the box. The installation of the machine takes only a few minutes, after having the software installed you can almost immediately start with the marking of your layouts.

Marking area and layouts

With a marking area of 100 mm by 75 mm, most industrial marking requirements can be met even with our low-cost dot marking unit MarkMate USB.

Within the marking area, various information can be programmed and marked on the workpiece. A wide range of standard options like serial numbers, time and date marking and other options simplify your marking tasks significantly. Logos and graphics can either be created in the graphics tool or be imported from other CAD systems.

Software MarkMaster

The software Mark master standard is provided to every MarkMate USB. With this software numerous layouts can be also programmed in short time.

The MarkMaster software is an easy to use windows based package which enables on-screen creation of marking layouts using a simple drag and drop graphical interace. With this software, you can easily create and mark logos using the in-built graphics tools. Alternatively, DXF and HPGL formats can be imported from other CAD systems. With the trial run feature, you can rapidly check the layouts before the part is marked. The marked text is positioned on screen while the machine outlines the marking position on the part itself.

Advanced features of the MarkMaster Advanced are:

- Support of all TTF fonts
- Database connectivity for marking data queries
- Database connectivity for duplicate data checking
- Security password features
- Data logging for marking report generation



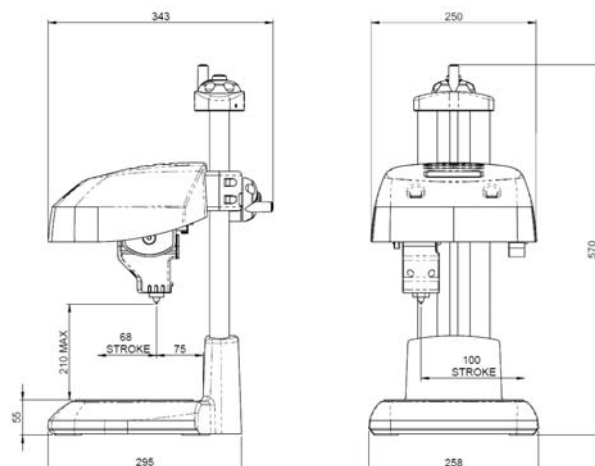
Technical details

- Marking area: 100 x 75 mm
- Character size: 0.18 - 99.9 mm (in 0.18 mm of steps)
- Standard fonts: 5x7, 7x9, Varidot, TTF fonts with MarkMaster advanced
- Graphics import: DXF, HPGL
- Weight: 13 kg
- Power supply: 220 V, 50 hertz

Additional options

- Magnetic table – manually activated magnetic base plate for holding ferrous items
- "T"-slotted table – extruder or machined aluminium T-slotted base
- Standard label fixture – Simple manually operated label fixture
- Extra marking stylus
- Additional guarantee
- MarkMaster advanced software
- Windows software (WinMax)
- External start/stop counter
- External foot trigger

Technical drawing



[Marking products]

Dot marking machine

Dot marking machine MarkMate LCD

The MarkMate LCD is a bench mounted dot marking machine for a wide range of industrial and commercial applications.

The MarkMate LCD is a "stand alone" machine which can be used without PC. The marking head is connected to an extra controller. The layouts are programmed directly in the controller on a LCD screen. This dot marking machine is easy to use out of the box. Even unskilled operators are able to program various layouts even with a minimum of training. The multilingual user interface allows users to choose between different character fonts and type sizes as well as angular and arc marking, serial numbers, date and time marking. However, we offer also trainings for this machine if requested.

Requiring no air supply and powered only by a standard 220 volt electric source, the MarkMate LCD is both highly efficient and significantly quieter than pneumatically actuated systems.

Marking area and layouts

With a marking area of 100 mm by 75 mm, most industrial marking requirements can be met even with our low-cost dot marking unit MarkMate LCD.

Within the marking area, various information can be programmed and marked on the workpiece. A wide range of standard options like serial numbers, time and date marking and other options simplify your marking tasks significantly. Logos and graphics can either be created in the graphics tool (logo editor). However, you are also able to import graphics through the RS232 serial port.

With the trial run feature, you can rapidly check the layouts before the part is marked. Each single line within the layout can be marked while the machine outlines the marking position on the part itself.

Stand alone or PC operated

The separate controller protects the electronics from the mechanical shock loading generated in the marking head and the large high contrast LCD screen gives users clear control over the marking operation without the need for a separate PC. The controller however provides also connectivity options through RS232 serial and digital I/O ports. You can also program the layouts with an additional software (WinMax).



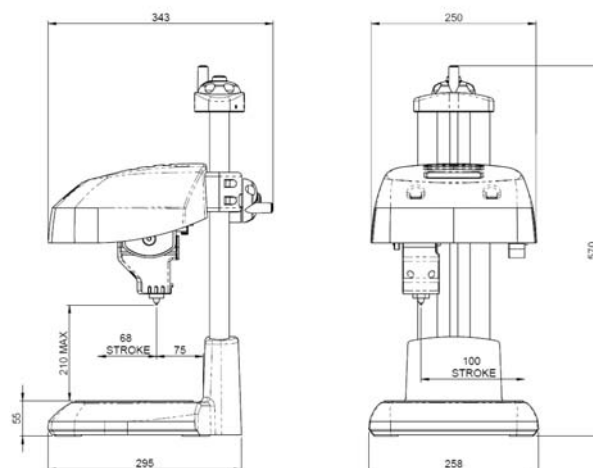
Technical details:

- Marking area: 100 x 75 mms
- Character size: 0.18 - 99.9 mm (in 0.18 mm of steps)
- Standard fonts: 5x7, 7x9, Varidot, TTF fonts with MarkMaster advanced
- Controller can save up to 600 layouts
- Weight: Marking head: 13 kg, Controller: 7 kg
- Power supply: 220 V, 50 hertz

Additional options

- Magnetic table – manually activated magnetic base plate for holding ferrous items
- "T"-slotted table – extruder or machined aluminium T-slotted base
- Standard label fixture – Simple manually operated label fixture
- Extra marking stylus
- Additional guarantee
- MarkMaster advanced software
- Windows software (WinMax)
- External start/stop counter
- External foot trigger
- Automatic label supply

Technical drawing



[Marking products]

Dot marking machine BenchDot

Our dot marking machine BenchDot is a robust and fully programmable dot marking machine designed for accuracy, speed, power and reliability. It is available in various different in four different series and several variations to meet the different operators' requirements.

All models include a high quality ball screw mechanism with unique twin linear rails and twin linear bearings on each axis and a rigid cast column and base.

This marking tool can either be controlled by a standard PC using Windows-based software (MarkMaster) or with an extra controlling unit (controller 3000). The controller unit 3000 has a robust keyboard and a large and high contrast graphical screen to allow easy programming & previewing of marks. Up to 1350 layouts can be saved in this controller unit. Various interfaces and communications ports allow additional options.

Marking area and layouts

With a marking area of up to 300 x 150 mm, almost any kind industrial marking requirements can be met even with our high-quality marking machine.

Even in the standard version, you are able to program layouts using the multilingual user interface with straight, angled, arc and revers marking in various character sizes and fonts. Basic machine fonts are 5x7, 7x9, Varidot and OCR fonts, using the MarkMaster advanced software, you will also be able to use all True Type fonts available in your PC system. Time and date marking, serial numbers and variables are easy to program as well. Logos and graphics can either be created in the logo editor or imported from other CAD systems (PLT, DXF).

With the trial run feature, you can rapidly check the layouts before the part is marked. Each single line within the layout can be marked while the machine outlines the marking position on the part itself.

Dot marking machine BenchDot - Available models

Benchdot E: Electromagnetic dot marking

This is our standard machine where no air supply is required. Using no air supply, this machine works remarkable quieter than pneumatically operated machines. With this dot marker you will reach a high consistency of marking depth.

Benchdot EZA - Electromagnetic dot marking, digital Z axis with Autosense

This machine is based on the series "Benchdot E" but offers additionally a powered programmable Z digital axis for marking head height adjustment. The AutoSense system allows self adjustment to variation of part batch height with the best precision, repeatability and consistency. This dot marking machine is especially well suited to Data Matrix marking. With this machine, you will be able to mark different part levels with no manual adjustment.

Benchdot EZAV - Electromagnetic dot marking, digital Z axis, Autosense, VeriSmart

The Benchdot EZAV is based on the series EZA, additional this dot marking machine offers you an integrated in-process Data Matrix verification system (VeriSmart). With a 5 mega-pixel sensor, you can verify a wide range of codes. The Mark2Verify Software provides simple traffic light feedback to the operator, verification results and advanced features.

Benchdot DP: Deep Pneumatic dot marking

This dot marking machine is the pneumatically operated version of the Benchdot marking tool. With this dot marker, you will be able to mark up to 1.5 mm in mild steel due to its powerful pneumatic option.

Dot marking machine



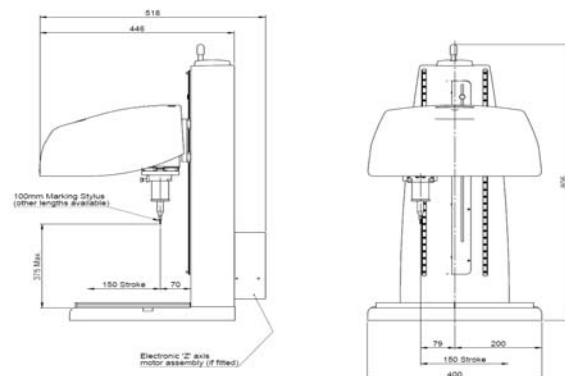
Technical details:

- Marking area: 60x60, 100x100, 150x150, 300x150
- Character size: 0.18 - 99.9 mm (in 0.18 mm of steps)
- Standard font: 5x7, 7x9, Varidot, TTF writings
- Memory: up to 1350 layouts saveable
- Weight: Marking head: 34 kg, Controller: 10 kg
- Power supply: 220 V, 50 hertz
- Windows software: MarkMaster optional

Additional options

- Windows software MarkMaster
- Magnetic bred fixture - manually activated for holding ferrous items
- T-slotted tables
- Circumferential (rotary) axis - to allow marking around shafts, tubes and other circular components
- Standard label fixture - simple manually operated label fixture
- External start / stop counter
- External foot trigger
- Automatic tag/plate feeder - electric or pneumatic fixture for automatically loading, clamping, marking and ejecting name plates and labels
- Stylus options - Solid carbide styli with different length and different tip angles
- Electric Z axis
- Pneumatic depth mark

Technical drawing



[Marking products]

Dot marking machine

Dot marking machine PortaDot

Our dot marking machine PortaDot 5025 is a portable, fully programmable dot marking machine for use in all environments where bringing the marking device to the work piece is a prerequisite. Uncompromising build quality and lightweight design ensure the Portadot 5025 portable marking system is suitable for use in almost any environment.

The marking head is ergonomically formed and - weighing only 2.3 kg - ensures operator fatigue is minimized while productivity is maximized. The patented aluminium marking head protected in a tough polymer chase allows the Portadot 5025 to be used in most industrial environments. With this portable dot marking machine, you will no longer need to transport heavy items requiring marking to the machine.

The PortaDot is easy to use out of the box. The operator will be able to program layouts after a few minutes, the functional software ensures operator training is minimized. The multilingual user interface facilitates the creation and administration of layouts. This dot marking machine can be operated as a stand alone machine or networked. For the networked usage, Windows-based software solutions are available. However, the PortaDot is delivered normally with the controller 3000 using only standard electric

Marking area and layouts

With this marking machine you will be able to create and mark various layouts up to a maximum size of 50x25 mm. Serial numbers, time and date, logos and graphics can be integrated easily. Up to 1.350 layouts can be stored in the Controller 3000.

With the trial run feature, you can rapidly check the layouts before the part is marked. Each single line within the layout can be marked while the machine outlines the marking position on the part itself.

The PortaDot is supplied either as a stand-alone marking machine (with which controller 3000) or with a Windows-based software.

Controller 3000

The separate 3000 controller protects electronics from shock loading of mechanical marking operation. This controller comes with a durable integrated membrane keyboard and LCD linked function keys. The very large graphical display is embedded also in the controller.

The menu system software is very simple to use and offers a trial run feature. Advanced features like serial numbering, passwords, arc marking, time/date and logo marking are easy to integrate in your layouts. Various communication options and I/O are available. A wide range of options make this dot marking machine even more flexible.



Technical details:

- Marking area: 50 x 25 mms
- Character size: 0.15 - 24.9 mm (in 0.15 mm of steps)
- Standard fonts: 5x7, 7x9, Varidot, TTF writings
- Memory capacity: up to 1350 layouts
- Weight: Marking head 2.3 kg, Controller 10 kg
- Power supply: 220 V, 50 hertz
- Windows software available

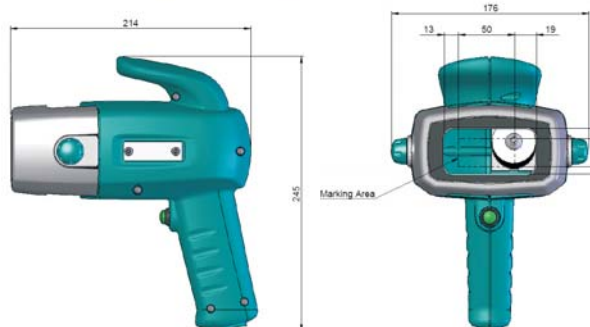
Additional options

- Windows software MarkMaster or MarkMaster advanced
- Module TCP/IP Ethernet
- Base and Column for bench mounted application
- External start / stop counter
- Extra stylus - replacement stylus
- V-face plate for marking along circular components
- pneumatic depth mark
- 6 m umbilical cable
- Spring balance and bracket for ease of use

Advanced features of the MarkMaster Advanced are:

- Support of all TTF fonts
- Database connectivity for marking data queries
- Database connectivity for duplicate data checking
- Security password features
- Data logging for marking report generation

Technical drawing



[Marking products]

Dot marking machine

Dot marking machine PortaDot 130-30

The PortaDot 3000 130 is a professional portable dot mark machine for the hardest marking requirements. This marking tool has a high torque motor, precision lead screws and robust components in a steel housing for very fast and accurate marking. This powerful electromagnetic dot marking machine requires no air supply, just one standard electrical power supply is needed. Deep permanent marks and a high consistency of marking depth can be achieved, you can mark most engineering materials, metals and plastic to 62 HRc steel.

The quality of the marking is excellent, highest marking legibility of numbers and letters, company logos and Data Matrix marks can be achieved.

This dot marking machine is used primarily for the marking of heavy and bulky work pieces where a transport of the work piece to the marking unit is too costly or time consuming.

The PortaDot 3000 130 is delivered normally with the controller 3000 and needs for the company merely electric stream (220 V, 50 hertz).

Marking area and layouts

With this marking machine you will be able to create and mark various layouts up to a maximum size of 130x30 or 130x40 mm. Serial numbers, time and date, logos and graphics can be integrated easily. Up to 1.350 layouts can be stored in the Controller 3000.

With the trial run feature, you can rapidly check the layouts before the part is marked. Each single line within the layout can be marked while the machine outlines the marking position on the part itself.

The PortaDot is supplied either as a stand-alone marking machine (with which controller 3000) or with a Windows-based software.

Controller 3000

The separate 3000 controller protects electronics from shock loading of mechanical marking operation. This controller comes with a durable integrated membrane keyboard and LCD linked function keys. The very large graphical display is embedded also in the controller.

The menu system software is very simple to use and offers a trial run feature. Advanced features like serial numbering, passwords, arc marking, time/date and logo marking are easy to integrate in your layouts. Various communication options and I/O are available. A wide range of options make this dot marking machine even more flexible.



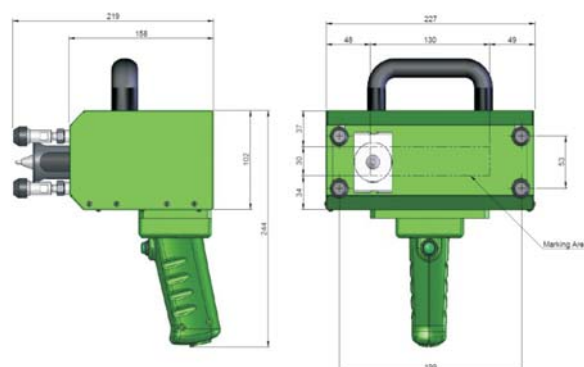
Technical details:

- Marking area: 130x30 or 130x40 mms
- Character size: 0.30 - 29.9 mm (in 0.30 mm of steps)
- Standard fonts: 5x7, 7x9, Varidot, TTF writings
- Memory: up to 1350 layouts
- Weight: Marking head: 5 kg, Controller: 10 kg
- Power supply: 220 V, 50 hertz
- Windows software: optionally possibly

Additional options

- Windows software MarkMaster or MarkMaster advanced
 - Module TCP/IP Ethernet
 - Base and Column for bench mounted application
 - External start / stop counter
 - Extra stylus - replacement stylus
 - V-face plate for marking along circular components
 - pneumatic depth mark
 - 6 m umbilical cable
 - Spring balance and bracket for ease of use
- Advanced features of the MarkMaster Advanced are:
- Support of all TTF fonts
 - Database connectivity for marking data queries
 - Database connectivity for duplicate data checking
 - Security password features
 - Data logging for marking report generation

Technical drawing



[Marking products]

Dot marking machine

Dot marking machine PortaDot 100-75

Our dot marking machine PortaDot 100-75 is a portable, fully programmable dot marking machine for use in all environments where bringing the marking device to the work piece is a prerequisite. Uncompromising build quality and lightweight design ensure the Portadot 100-75 portable marking system is suitable for use in almost any environment.

The PortaDot 100-75 is easy to use out of the box. The operator will be able to program layouts after a few minutes, the functional software ensures operator training is minimized. The multilingual user interface facilitates the creation and administration of layouts. This dot marking machine can be operated as a stand alone machine or networked. For the networked usage, Windows-based software solutions are available. However, the PortaDot is delivered normally with the controller 3000 using only standard electric power supply (220 V, 50 Hz).

For deep marking is needed (up to 1.5 mm in mild steel), a pneumatic version is recommended.

Marking area and layouts

With this marking machine you will be able to create and mark various layouts up to a maximum size of 100x75 mm. Serial numbers, time and date, logos and graphics can be integrated easily. Up to 1.350 layouts can be stored in the Controller 3000.

With the trial run feature, you can rapidly check the layouts before the part is marked. Each single line within the layout can be marked while the machine outlines the marking position on the part itself.

The PortaDot is supplied either as a stand-alone marking machine (with which controller 3000) or with a Windows-based software.

Controller 3000

The separate 3000 controller protects electronics from shock loading of mechanical marking operation. This controller comes with a durable integrated membrane keyboard and LCD linked function keys. The very large graphical display is embedded also in the controller.

The menu system software is very simple to use and offers a trial run feature. Advanced features like serial numbering, passwords, arc marking, time/date and logo marking are easy to integrate in your layouts. Various communication options and I/O are available. A wide range of options make this dot marking machine even more flexible.



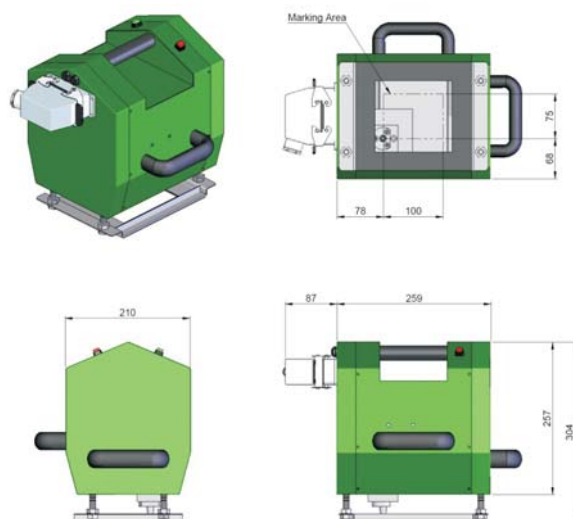
Technical details:

- Marking area: 100 x 75 mm
- Character size: 0.18 - 74.9 mm (in 0.18 mm of steps)
- Standard fonts: 5x7, 7x9, Varidot, TTF writings
- Memory: up to 1350 layouts
- Weight: Marking head: 12 kg, Controller: 10 kg
- Power supply: 220 V, 50 hertz
- Windows software: optional
- Air pressure connection possibly

Additional options

- Windows software MarkMaster or MarkMaster advanced
- Module TCP/IP Ethernet
- Base and Column for bench mounted application
- External start / stop counter
- Extra stylus – replacement stylus
- V-face plate for marking along circular components
- Pneumatic depth mark
- 6 m umbilical cable
- Spring balance and bracket for ease of use

Technical drawing



[Marking products]

Dot marking machine

Dot marking unit InDot - Integrator

The Marktronic 3000 Integrator range are fully programmable dot marking machines which can be integrated into any existing industrial/commercial application.

The compact design has been created with ease of use in mind. High functionality embedded software or PC Windows option ensures operator training is minimized and production efficiency is maximized. The multilingual interface allows users to choose between different character fonts and type sizes as well as angular and arc marking, serial numbers, date and time marking. The lead screw driven marking head guarantees dot precision second to none, making the dot marking Integrator range capable of meeting the rigorous demands of 2D Data Matrix Code marking.

The Integrator range is electrically actuated requiring no compressed air supply. Therefore, these dot marking machines are significantly quieter than pneumatically operated dot peen systems. The programmable force feature provides accurate marking depth control. With this machine, you can easily mark all engineering materials, plastics and steel up to 62 HRC. The precision ball screw driven marking head guarantees dot precision unmatched on other systems.

The Indot dot marking unit comes with a controller 3000. However, in connection with a PC system, a huge number of operation modes are possible. A connection with a PC or a network is simply possible over the RS232 connection as well as through a TCP/IP port. The dot marking units "InDot" are available with four different marking areas. Also the variation as compressed air powered engraving unit (InScribe) with which the text is shown as a continuous line is possible.

Marking area and layouts

The dot marking machine of the series "InDot" can be supplied with four different marking areas. The standard sizes are 50x25 mm, 60x60 mm, 150x150 mm as well as 130x40 mm. Serial numbers, time and date, logos and graphics can be integrated easily. Up to 1.350 layouts can be stored in the Controller 3000.

With the trial run feature, you can rapidly check the layouts before the part is marked. Each single line within the layout can be marked while the machine outlines the marking position on the part itself. The "Indot" dot marking machine is supplied either as a stand-alone marking machine (with which controller 3000) or with a Windows-based software.

Controller 3000

The separate 3000 controller protects electronics from shock loading of mechanical marking operation. This controller comes with a durable integrated membrane keyboard and LCD linked function keys. The very large graphical display is embedded also in the controller.

The menu system software is very simple to use and offers a trial run feature. Advanced features like serial numbering, passwords, arc marking, time/date and logo marking are easy to integrate in your layouts. Various communication options and I/O are available. A wide range of options make this dot marking machine even more flexible.



Technical details:

- Marking area: 50x25, 60x60, 150x150 and 130x40 mm
- Character size: 0.18 - 49.9 mm (in 0.18 mm of steps)
- Standard fonts: 5x7, 7x9, Varidot, TTF writings
- Memory: up to 1350 layouts
- Weight: Controller: 10 kg
- Power supply: 220 V, 50 hertz
- Windows software: optional
- Air pressure connection possibly

Additional options

- Windows software
- Module TCP/IP Ethernet
- Compact electric Z axis with AutoSense
- Pneumatic approach axis
- Digital approach axis
- Custom designed fixtures on request
- Footswitch start pedal
- Replacement stylus
- Pneumatic depth mark
- Remote Start/Stop box

Technical drawing

