

PROVIDING TOTAL MARKING SOLUTIONS



- **For Traceability**
- **Serial numbers**
- **Identification**
- **Part numbers**

- **Independent**
- **Easy to use**
- **Versatile**
- **Robust**



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M 3000

Pneumatic or electromagnetic solutions

ERGONOMIC

The M3000's **well balanced design** makes it easy to use. The handle can be positioned for left or right-handed operation. A balancing hook is also designed as standard. The M3000 can be **powered by a Ni-Cd battery**, allowing the operator to select and mark programs anywhere in the workplace.



SELF-CONTAINED :

The M3000 does not require a PC

The M3000 comes supplied with everything required for immediate operation. The integrated marking software is **user-friendly** and allows the operator to select files using the built-in mini-keyboard and LCD screen, making it **totally independent**.

VERSATILE

The machine can mark parts with different surfaces: cast, machined, flat, concave, convex or round. The same marking tool makes a permanent and indelible mark on **metals, plastic, wood** or other materials.



TECHNICALS CHARACTERISTICS

Main characteristics:

Marking window: 60x40mm
Character size: From 1 to 30mm (incrementing by 0.1mm)
Dimensions (without handle): L = 350mm, W = 240mm, H = 200mm
Weight: 4.5kg

Environment

Power: 110VA; Operating temperature: 5 to 40°C.
Compressed air supply (pneumatic version only):
Air pressure 5,5bar nominal/80PSI
Ø6 pneumatic connector

Standards complied to

Directive «Machine» 98/37/CE
Directive «Electromagnetic compatibility» 89/336 EEC
Directive «Low Voltage» 73/23 EEC

APPLICATIONS

Fixed asset marking and inventory control



In many businesses, **industrial** (construction, naval, aircraft ...), **material rental** (computers, agricultural materials, events arrangement) and **organisation** (schools, city halls, ministries), identification and **fixed asset** marking are absolutely necessary to manage **inventories** and to **track equipment**, from purchase to maintenance to disposal. This identification is also useful to **prevent theft** from locations where the material is stocked or assigned. Identification with labels glued or riveted on the product is not permanent, they can **wear out**, **fall off** or be **destroyed**. In addition, the cost of these tags can be significant

In order to answer the need for **permanent** direct part marking without consumables, the mobile M3000 is a cost-effective solution to make indelible, clear and precise marks on **metal and plastic** materials up to 62 HRC hardness.

This user-friendly machine is versatile: The data can be downloaded from a bar code reader or programmed directly with a keyboard: the creation of marking files (text and logos) is **fully integrated** in the machine that can **automatically** change variable data (serial numbers and dates) that will be necessary for fixed asset identification.



MICRO-PERCUSSION MARKING



The principle of micro-percussion marking is based on making indents in the material using a vibrating tool. The marking can be carried out on all types of material up to a hardness of 62 HRC: treated or untreated metals, plastics, wood etc... The single marking tool creates permanent markings that are aesthetic and indelible. Due to its design, the marking tool creates low stress in the materials and can mark parts or tags (from 0.5mm).

Compared to other marking technologies this technology requires no additional consumables. It is therefore the most cost effective marking system to run.

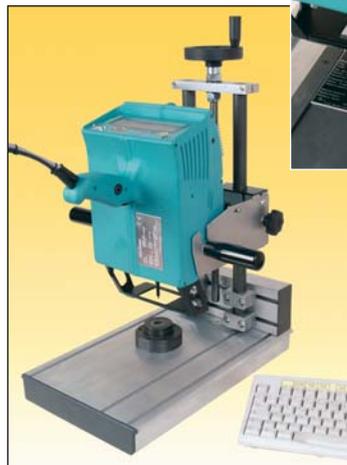
ACCESSORIES



Bar code reader



Spare batteries and rapid charger



Column frame for marking small parts
Reference 2543



Spare points
with different angles

P 5000

Pneumatic or electromagnetic benchtop machines

SIMPLE & FLEXIBLE

The P5000 is really easy **to use and to install**; it does not require any external training. This machine is **robust and easy to maintain**. The P5000 is **flexible** to the size of the part to mark (height up to 300mm) and it can mark all types of materials up to a hardness of 62 HRC. The P5000 is suitable to every country thanks to a **single electrical supply** from 100V to 230V.



ECONOMIC & PRODUCTIVE

The P5000 uses the **micro-percussion** technology which, contrary to traditional technology, does not require additional consumables. The P5000 optimises the "cost/productivity/marketing quality" ratio. This machine allows a **rapid marking** 5 characters per second, with a **high quality**.

SELF-CONTAINED & AUTONOMOUS

The P5000 is self-contained with an integrated control unit, and works without computer. Thanks to its USB plugs, the P5000 proposes an **extended memory** and a **link with peripheral**.

TECHNICALS CHARACTERISTICS

Main characteristics

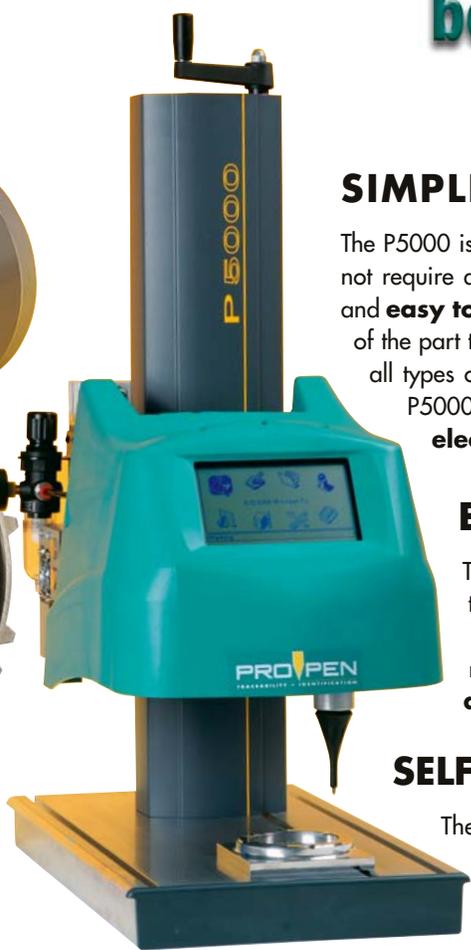
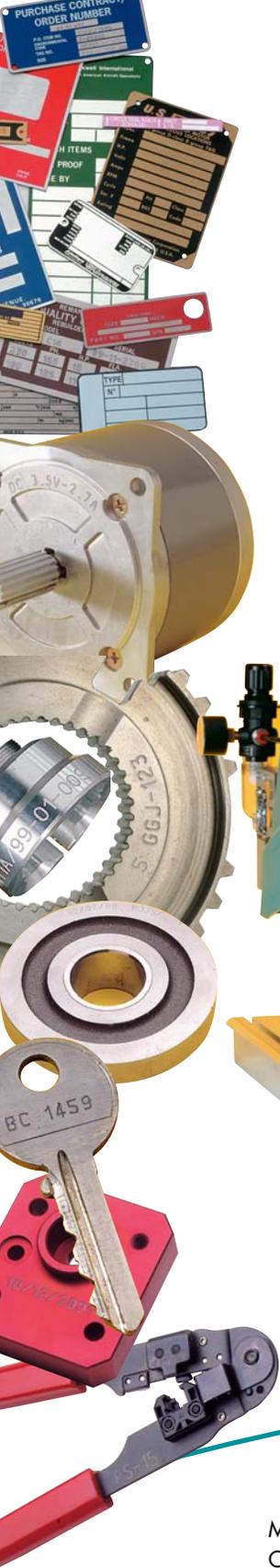
Marking zone: 100x120mm
Character size: From 1 to 100mm in steps of 0.1mm
Height of the part to be marked: up to 300mm
Dimensions: L = 580mm, W = 280mm, H = 734mm
Weight: 34kg
Standard marking tool: PN22 or EM11/C
Air filter mounted on the machine

Environment

Electrical supply: 110/240V single phase
Power: 300 W, frequency: 50 to 60Hz
Operating temperature: 5 to 45°C
Compressed air supply (pneumatic version only):
Air pressure 5.5 bar nominal / 81 PSI
Ø 1/4" pneumatic female gas connector

Standards complied to

Directive «Machine» 98/37/CE
Directive «Electromagnetic compatibility» 89/336 EEC
Directive «Low Voltage» 73/23 EEC



APPLICATIONS

Marking cylindrical parts

DP 3500 / DP 4500



OPTIMISED PRODUCTIVITY

The DP3500/4500 rotary axis has an adjustable rotating speed, which can be adapted according to the size of the part that you wish to mark. In this way, whatever the part to be marked, you can always ensure optimal productivity to your equipment.

SIMPLICITY: NO PC required

By using the **internal software** of the machine, the DP3500/4500 is very simple to program. This **user-friendly and versatile** software allows you to easily achieve the desired marking for all your parts **without the need for a PC**.

NUMEROUS POSSIBILITIES

The DP3500/4500 is very flexible. Due to its hollow chuck and its internal and external clamping, the DP3500/4500 allows a wide range of parts to be marked. The parts can be marked either around the axis or along the axis and for this reason it is easily adaptable to your marking requirements.

COMPLETE PACKAGE

The motorised rotary axis is delivered as a complete package. Due to its **set up CD-ROM**, you can install it on your P5000 machine within a few minutes. Its small size and low weight makes it easy to remove from the table to mark all kinds of parts.

TECHNICAL INFORMATION

	DP3500	DP4500
Dimensions	L = 241mm, W = 223mm, H = 158mm L = 9.488", W = 8.78", H = 6.22"	L = 276mm, W = 223mm, H = 158 mm L = 10.866", W = 8.78", H = 6.22"
Net weight (with chuck)	6.4kg - 14.11lb (without cord)	9.8kg - 21.6lb
Part max. inertia time	With chuck: 65kg.cm ² Without chuck: 50kg.cm ²	With chuck 3400kg.cm ² Without chuck: 3500kg.cm ²
Rotation speed	From 5 to 240 turns/min	From 13 to 85 turns/min
Internal clamping	Ø from 3 to 76mm	Ø from 3 to 125mm
External clamping	Ø from 23 to 98mm	Ø from 30 to 152mm

ACCESSORIES



Reference **25054**
Industrial footswitch



Reference **25154**
Marking area light



Reference **2515**
Double tank air filter



Reference **25053**
Standard footswitch



Reference **25055**
Control panel



Reference **2411**
Marking tool PN12



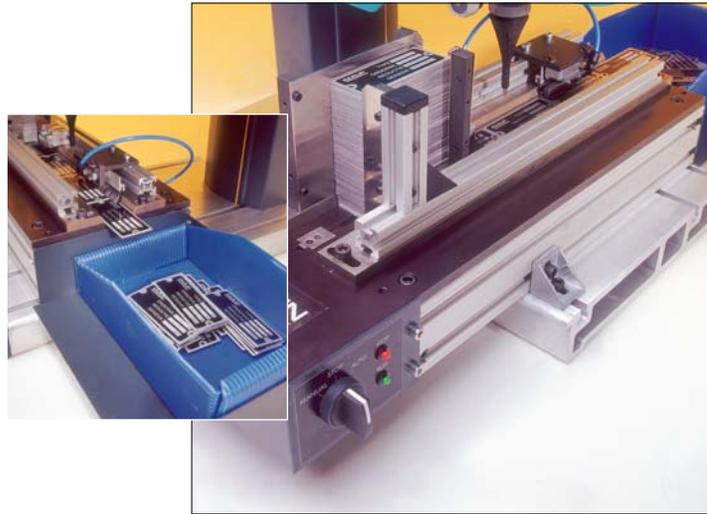
Reference **2540**
De-oiler air filter





TAG 3500

Automatic identification plate marking system



INDEPENDENT

This system is **directly connected** to the P5000 and does not require an additional computer. It expands the standard functions of the P5000 machine and will permit the **automatic** feeding, marking and ejection of identification plates without an operator (**Chimney height: 100mm**).

EASY TO ADJUST

The TAG 3500 will accept a wide variety of plates. It is very easy to change the format (Plate format: **20x20 - 98x98mm**) of the plate and to adjust for different sizes and thicknesses (Plate width: **0.6 - 2mm**).

FLEXIBLE

The TAG3500 is small (**LxWxH = 71x20x17cm**), which makes it easy to handle and to install on the P5000. When removed from the machine, it is possible to mark all types of metal and plastic parts up to 300mm tall.

FILE MAN

Standard integrated software

P5000 and M3000 marking machines are equipped with a built-in LCD screen and external keyboard. The integrated software in both machines is very **easy to program and adapt** to your marking requirements. Its simplicity allows many operators to use the equipment without in-depth training.



Main Functions of the integrated software

Creation and back up of marking files (up to 300 files) with external keyboard

Marking simulation

Programming of variable data: Date and time (date, time, week), incremental serial numbers, batch numbers and shift codes...

Linear, angular or radial marking

Centering, compression, inclination, character spacing

Geometrical shapes (circles, lines, squares...)

Several standard fonts: continuous line (Pneumatic only), Points separated, 5x7 Matrix

Standard logo : CE Mark Logo

Bar code reader connection for data Reception and marking (optional)

Graphic Preview (P5000 only)



P5000T

Manual tag marking accessory



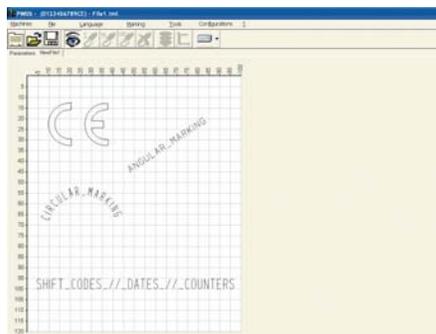
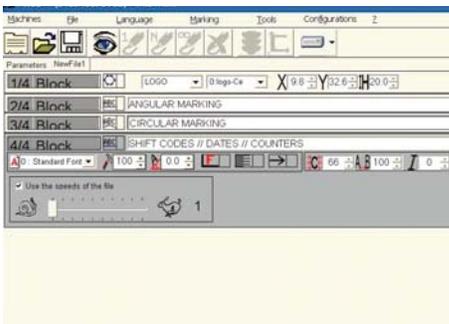
COST EFFECTIVE SOLUTION

This **low-cost option** expands the standard functions of the P5000 by allowing individual tag and nameplate marking. Due to its sound-reducing plateholder and its patented magnetic clamping system, it is possible to mark all shape of tags and nameplates (rectangular, round, square...) in **metal or plastic**, provided they are larger than **5x10mm** and thicker than **0.5mm**. It also allows marking all types of parts (tools, mechanical parts, keys...).

CONSISTENT AND AESTHETIC MARKING

The single marking tool will produce very high legibility and permanent marking. It permits the marking of variable character heights (**between 1 and 100mm**), as well as logos. Moreover, the low-impact micro-percussion marking will not deform the plates.

MANAGEMENT



Optional Windows® Enhanced software

Software's Environment: Windows® 3.1, 95, 98, 2000, NT, XP and Vista

Complete marking software:

PW03 for M3000 / PW05 for P5000

Functions:

- Screen Preview before Marking (WYSIWYG).
- Possibility of importing the part's image as a background (PW05 only).
- Logo capabilities: conversion and downloading of .dxf and .plt logos into the machine.
- Marking assistance: Several help keys are available (positioning, simulation, text parameters...)
- Link of databases : "Fusion" function with Excel or .csv type file
- Unlimited number of files
- Password control: To limit access to menus
- File transfer: When created on the computer, the software enables you to download the files in the machine and then work independently

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SAFE LOAD & INSPECTION RECORD				
Max. Safe Load	7 500			
Per Dwg. No.	XX 353			
Inspection Frequency	30			
Date Inspected	Next Due Date	Safety Inspected	Date	Inspected by
01/01/99	02/02/99	Y	01/09/99	
02/02/99	03/03/99	Y	02/07/99	
03/03/99	04/04/99	Y	03/03/99	
04/04/99	05/05/99	Y	04/04/99	



SERVICES

Servicing plans

Routine servicing of your equipment will increase its life span and ensure greater reliability. PRO-PEN offers various service plans tailored to your requirements.

Our repairs and rebuilds are all *done* by our skilled technicians, which guarantees a high level of quality.

A complete diagnostic report is sent with each repaired machine.

Service plans	Platinum	Gold	Silver
Reference	2762	2761	2760

Design of logos

PRO-PEN can create and download customised logos into your P3000 or M3000. This will allow you to mark the parts you manufacture with your company logo, improving the quality of your product identification, or to customise parts with your customer's logos.

Customised logo PN	Ref 2514
Customised logo EM	Ref 25141



Spare parts

To respond quickly to your needs, PRO-PEN stocks all the necessary spare parts for immediate shipment.



Worldwide sales network



PRO-PEN guarantees worldwide technical support close to your application, with the assistance of 14 subsidiaries and more than 150 qualified distributors ready to offer you a quick response to your request.

For more information contact us

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