Dotpeenator® SA14 v2

Software User Manual

v1.1 English

For all machines using the SA14 control system

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Revision History

Version	Date	Software Vers.	Changes made
1.0	30.09.2026	V9.7.S0706	First release
1.1	7.11.2026	V9.7.S0706	Supported devices described on the first page; general layout revisions

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1 Introduction and Safety

1.1 About the SA14 Control Unit

The Dotpeenator SA14 is an all-in-one marking control unit with a touchscreen, developed for dot peen marking machines. The marking software and machine control are combined in a single device.

1.2 Warning Symbols and Their Meanings

This manual uses different symbols and colours to distinguish between levels of danger, warning and information.



DANGER
Color code: Red

Indicates a hazardous situation which, if not avoided, will result in death or serious injury. This signal word is used only in the most extreme situations.



WARNING
Color Code: **Orange**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION
Color code: **Yellow**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



NOTICE
Color Code: **Blue**

Addresses practices not related to personal injury, intended to prevent damage to the machine or property.

1.3 Safety Warnings

Read this section carefully before installing and using the SA14 control unit. For questions about this manual, contact SERMATEK MAKİNA SAN. VE DIŞ TİC. LTD. ŞTİ.



WARNING: Electric shock

Do not open the covers of the machine or the control unit. Hazardous voltage is present inside. Only SERMATEK technical service may work on the electrical and electronic parts (see 6).



CAUTION: Moving pin and axes

The pin and axes move rapidly during marking. Keep your hands, fingers and tools out of the marking area. The hardware test (F5), **Park**, **Aim**, **Outer frame** and **Contour** functions also move the pin.



CAUTION: Pinching

If a pneumatic clamp (fixture) is used, keep your hands away from the clamp jaws while it is closing.



CAUTION: Flying particles and noise

Small metal particles may be ejected and loud noise may occur during marking. Wear safety glasses and, where necessary, hearing protection.



CAUTION: Securing the part

Do not mark a part without securing it in the fixture or on the table. An unsecured part may shift or be ejected during impact.



NOTICE: Operating environment

The unit is not protected against liquids; place it where it will not be exposed to splashes of water, oil or coolant.



NOTICE: User responsibility

All safety instructions relating to the system must be known and followed by the user. Safety regulations may differ from country to country; compliance with local regulations is the user's responsibility.

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2 Interface

When the SA14 is switched on, the **Main Menu** appears first. Marking jobs are prepared and marked on the **Marking Screen**, which is opened with **F1 Start**. In this manual, button and field names on the screen are written in **bold**, exactly as they appear in the English interface of the device.

2.1 Main Menu



Top Bar

① **Date/time:** System date and time. Date/time codes use this clock (see 2.2.1).

② **Network:** The device's IP address, the WiFi icon and the name of the connected WiFi network. Tap the network name to open the WiFi list; use the refresh button on the right to update the list (see Chapter 5).

③ **Function buttons**

Button	Function
F1 Start	Opens the Marking Screen (see 2.7)
F2 File management	Marking files, graphics and fonts; USB transfer and file server (see 2.3)
F3 System update	Software update and system backup (see 2.4)
F5 Hardware debugging	Jogging the axes, homing, input/output tests (see 2.5)
F6 Device parameters	Factory-set machine parameters; must not be changed (see 2.6)
F7 System settings	General settings, users, modules, display, communication and USB ports (see 2.2)

Bottom Bar

④ **User button (e.g. Admin):** Shows the active user; tap it to log in as another user (see 3.3).

⑤ ***Language:** Interface language. Settings marked with an asterisk (*) take effect after a restart.

⑥ **Version:** Software version (e.g. V9.7.S0706). Quote this number when contacting technical service.

⑦ **USB button:** Safely ejects the inserted USB flash drive.

⑧ **Power button:** Offers options to shut down or restart the system.

2.1.1 Front Panel Indicators



2.1.1.1 LEDs

Indicator	Colour	Meaning
POWER	Red	The unit is powered.
MARKING	Green	Marking is in progress.
READY	Green	The machine is ready to mark.
HOME	Yellow	The axes are at the reference (home) position.
X/Y/R/Z LIMIT	Blue	The reference/limit sensor of the corresponding axis is active.

2.1.1.2 Buttons

Indicator	Symbol	Function

PUSH TO STOP		Stops the marking process. (It does not cut all power to the machine; it stops the motors and the valve.)
AIR ON/OFF		Turns the compressed air supply to the pin on and off by energising or de-energising the solenoid.
MARK		Starts the marking process.
MARK TYPE		Sets the number of impacts per second. For best results, select the mode recommended for the pin model you are using. You can identify the selected mode by how many times per second the red light flashes.
LIGHT ON/OFF		Turns the work area lighting on/off.

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