

# Instruction For Use

# SYNTMATE

Accessory for MediCons<sup>®</sup> and MediBlue<sup>®</sup>

## Document Revisions Summary

<u>Version</u>	<u>Date</u>	<u>Change Order</u>	<u>Remarks</u>
01	11 Oct 22	N/A	Initial issue
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This User Leaflet contains instructions for using the SyntMate device and it is available and downloadable in pdf format at [www.emc-computers.ro/syntmate/](http://www.emc-computers.ro/syntmate/). The website also contains the form to contact technical support.

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## 1. Technical features

The SyntMate device is powered from an AC Mains outlet by a separate power supply that provides 12V 3A with a maximum consumption of 18W.

The device has a 2.8 " (7 cm) touch screen display for communicate with the user. The MediCons/MediBlue units are driven by a stepper motor that can have a fixed rotational speed but a variable duration of that can be set by the user. Throughout these instructions, wherever MediCons term is used, it will also suit the MediBlue device.

This device is intentionally not equipped with an on-off switch, but has an automatic switch off function after 1 minute of no activity.

The device is manually operated, with a future enhancement of recognising the device being used by RFID tag reading.

The ideal temperature of use is between 10 °C and 35 °C.

Please note that this device is equipped with a *rugged industrial resistive touch screen* that will assure many years of operation and it is usable with plastic or tissue gloves, nails or the blunt end of a pen/pencil. You may find that the screen is less sensitive than that of a smartphone, but it will respond to a wide range of input methods.

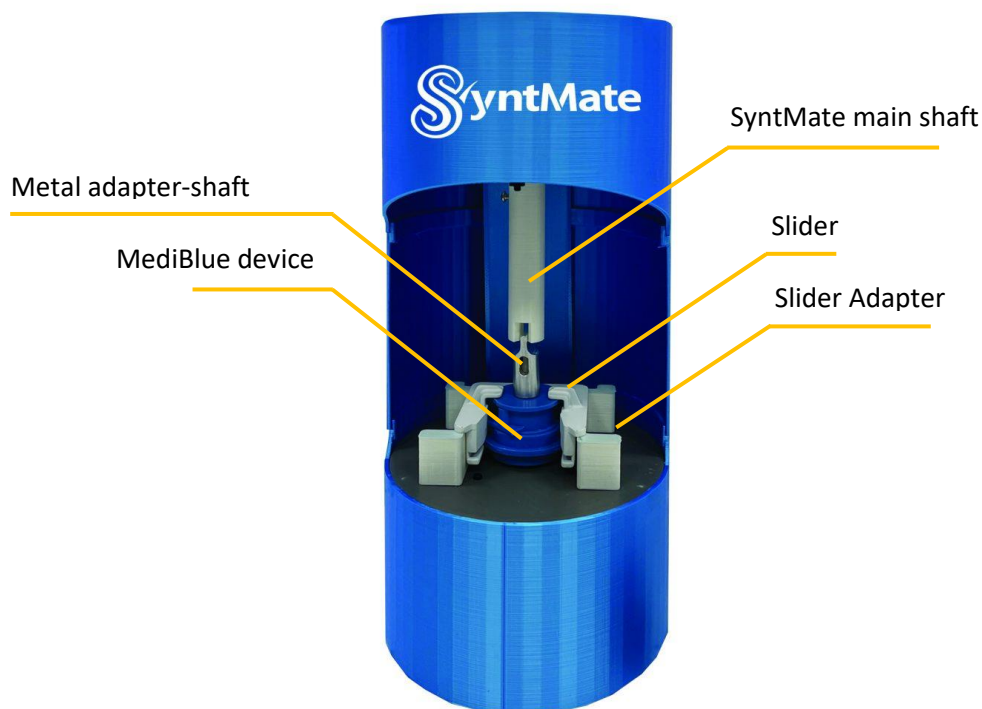


Figure 1 - SyntMate

## 1.1) Main menu



Figure 2 – Main menu

To turn on the display, click on the initially black screen. The touch screen display allows navigation in the menu (Fig. 2) which has the following virtual keys:

**HOME BUTTON:** located at the top right of the display, it starts the automatic repositioning of the rotating shaft, returning it to the home position; it allows the insertion / removal of MediCons® and its metal adapter shaft. When the house icon at the bottom right turns green, it means that the rotating shaft is in the correct home position, therefore with the coupling slot facing you. While the return to home phase is still in progress, the house icon is not green but blue (Fig. 3).



Figure 3 – Ongoing processing with shaft not in home position

**SETTINGS BUTTON (gear wheel symbol):** located on the display at the top left, it allows the setting of the default operating time.



Figure 4 - Settings

- **Default operating time setting:** by clicking on the settings button, you can set the default operating time using the +/- keys; as shown in Fig. 4, this time will be proposed by the device before each use (but it can in any case be modified using the up / down arrow keys).

**UP BUTTON:** positioned on the left of the display, increases the time by 1s for each press or 10s steps if press and hold.

**DOWN BUTTON:** positioned on the left of the display, decreases the time by 1s for each press or 10s steps if press and hold.

## 2. Initial Set Up

Place the SyntMate in a location close to a mains power outlet and on a stable base. Plug the SyntMate power supply into a mains outlet and press the blank touch screen to activate the SyntMate. The drive shaft of the SyntMate should rotate until the slot in the drive shaft is facing you. See Figure 1.

Please note that **only** the power adapter code **AD1936A120300K** manufactured by W&T ELECTRONICS CO., LTD can be used, and not any similar device.

## 3. Mechanical connection with MediCons®

Confirm that the drive shaft has rotated so that the slot is facing you. The Home symbol on the touch screen should have turned green as in Figure 2.

Place the metal adapter shaft onto the MediCons/MediBlue drive shaft and rotate it by hand so that it aligns with the slot in the SyntMate drive shaft. Then push the MediCons in its base slide inwards so that the drive shaft of the SyntMate engages with the adapter shaft. You should hear a “click” once inserted the slider correctly. See Figure 5, Figure 6 and Figure 7.



Figure 5 – Non centred slot



Figure 6 – Centred slot – home position



Figure 7 – Correct connection with the MediCons

Please note that, after many uses, it is possible that the slider may vibrate horizontally slightly during the processing cycles because of different sizes of the sterile sliders. This can be recovered by loosening or tightening the screws, as shown in the Figure 8, with a normal screw driver by forwarding or back warding them as much as it's needed to recover this space and get it properly locked. All the units are tuned in house with some sterile standard sliders but, if these vibrations occur, tighten the screws until 1-2mm forward lightly and gradually without forcing them or forward them too much to avoid interfering with the sliders motion. Please note that, for process reasons, the screws are made of plastic and, if over pressed, they may break.

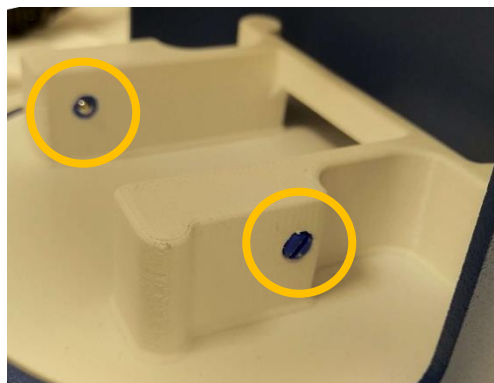


Figure 8 – Screws to tighten in case of need

## 4. Processing

### 4.1) Start of processing

If the touch screen has gone blank during the loading of the MediCons, it is just the automatic power turn off. Just touch the screen for it to power up again. It is advisable to clean your hands before using the touch screen.

Once switched on, the initial logo will appear on the display and, after a few seconds, the main menu as well (Fig. 2).



Figure 9: Main Screen

The menu will display the default pre-set time, see the Settings menu option above for how to change this default time.

The time selected for the processing time can be adjusted by

**UP BUTTON:** positioned on the left of the display, increases the time by 1s for each press or 10s steps if press and hold.

**DOWN BUTTON:** positioned on the left of the display, decreases the time by 1s for each press or 10s steps if press and hold.

**PLAY/PAUSE BUTTON:** positioned centrally at the bottom of the display, it starts the cycle or stops it.

Once the desired processing time has been set, press the PLAY button to start the SyntMate. Once in operation, the working time counter is decremented every second; 0 is displayed during the return to the home. To pause the processing, press the PAUSE button.

At the end of processing, the shaft should automatically rotate slowly to the home position to allow the MediCons to be unloaded. If the shaft has not returned to the home position, press the HOME button so that the drive shaft rotates to the load/unload position, then pull the MediCons forwards on the base slide and then remove the MediCons.

In the event of no operator input for over 1 minute when there is no processing rotation, the device will automatically go into a Power-Saving state by lowering the brightness of the display and, subsequently, into a Deep-Sleep state by turning off the display signalled by the ignition of a LED luminous crown.

#### 4.2) Interruption or pause of processing

A processing can be interrupted or paused at any time. By pressing the PAUSE button, it is possible to suspend a processing, and then resume it by pressing the PLAY button (the counter will resume from where it stopped). If you want to stop, however, press the HOME button and the device will return the shaft to the central position (to allow the MediCons® to be extracted).

It is essential not to attempt to extract the MediCons and the adapter-shaft after just pressing the PAUSE button, but you must first use the home function by pressing the HOME button.

## 5. Storage information

Store this device in a suitable, dry and clean place, at temperatures no higher than 35°C, no lower than 10°C and in conditions of humidity below 80%.

Keep away from sources of heat and flames.

Keep the device in its original packaging.

## 6. Usage Environment

The SyntMate is designed for use in the following environmental conditions:

- Indoor use only and a dry location.
- Temperature range: 10 to 35 deg C
- Relative humidity range: ≤ 80%RH, non-condensing. If the device has been stored in a cold location, allow 2 hours for it to stabilise to the usage conditions before using the SyntMate.
- Altitude: ≤ 2000m above sea level.
- Pollution degree II (standard laboratory conditions)

## 7. Warnings

- The protections provided by the equipment will be impaired if used in a manner not specified by the manufacturer.
- Use the device only with MediCons® or MediBlue tissue disaggregators. Use with any other type of tissue disaggregator or rotating tool could irreparably damage both devices.
- Take care not to touch the rotating shaft during operation and not allow anything to become entangled with the rotating shaft during the device operation.
- Only use the power supply that is supplied with the SyntMate. The power supply is an important part of the device's isolation and protection from mains electricity effects. Use with an unapproved power supply will invalidate the guarantee and may allow interference with other devices operating in close proximity.
- Connect the device and MediCons® following only the instructions provided.
- Do not handle and use the device with dirty gloves or hands or with wet hands and / or gloves.
- This is not a user serviceable equipment, do not open and / or disassemble the device.
- Do not use the device near heat sources.
- Do not use the device in conditions of humidity higher than 80%.
- At the end of the device's life, dispose of it properly in accordance with the WEEE directive
- Vibrations and minor noises are expected from normal use of the device and are within the safety limits, therefore they do not constitute a danger to the user.



## 8. Specifications

Item	Specification	Item	Specification
Input power	12V DC, max 2A	Mains Supply voltage	100 – 240V, 50 – 60 Hz
Average power consumption	18W	Overvoltage Category	OVC II, with the approved power supply
Power supply	Only use the supplied power supply, W&T AD1936A120300K. This is required for the SyntMate to be compliant with EMC standards.	Mains Power consumption	0.8 A
Storage and Use Environment	10 to 35 deg C, 80%RH	Rotational Speed	Fixed at 80 rpm
	Indoor use only	Rotational Time	Pre-set in 1 sec increments
	Maximum altitude: 2000m	Range of time	1 to 180 seconds
	Pollution degree II	IP rating	IP00