



**REPICH SPORT
& SHOOTING SA**

PARTNER OF



USER MANUAL

NEW ELECTRONIC



TRADITIONAL SWISS PRECISION



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NEW ELECTRONIC

ENGLISH 3

DEUTSCH 7

ITALIANO 11

FRANÇAIS 15

**The app can be
downloaded** for
Android as well on iOS.
Please download the
app by scanning this
QR Code:

Or just search for:
"Morini Competition
Arm SA" in **Play Store**
or **Apple Store**



1 IMPORTANT INFORMATION

The ISSF rules have been updated and now explicitly state that the use of any Application during competition is not permitted. This includes the use of a smartphone connected via Bluetooth. The Bluetooth connection is indicated by the blue LED located on the battery holder, ensuring clear visibility when an external device is connected. We therefore strongly recommend not using the Application via smartphone during any competition. Please also note that, to avoid any shipping issues, the battery is not included and must be purchased separately.

2 INTRODUCTION

This new electronic system developed by Repich Sport & Shooting SA is specifically designed to enhance training at home.

Reduced time at the shooting range can negatively impact performance. Based on this need, Repich Sport & Shooting SA has developed a new electronic system featuring the following functions:

- Monitoring of shooting movement during training sessions
- Recording of training sessions with the possibility to review results over time
- Precise analysis of shooter movement during trigger release, just before the pellet is fired
- Verification of movement immediately before and after the shot
- Visualization of the angle relative to the horizontal axis
- Adjustment of the solenoid reaction time.

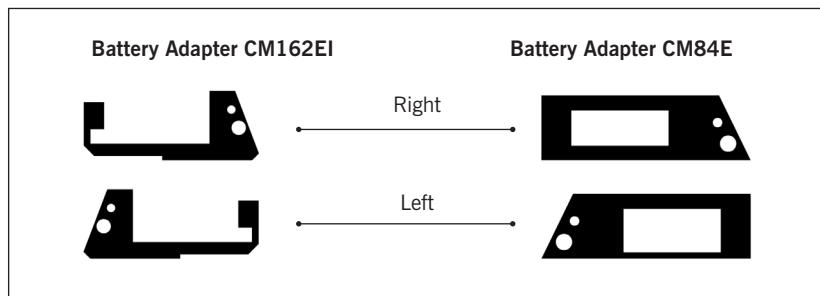
Thanks to this advanced electronic system, it is possible to digitally track the shooter's movements with high precision and in real time, providing valuable insights to improve consistency and performance.

3 SMARTPHONE CONNECTION VIA BLUETOOTH

Connecting the Pistol via Bluetooth:

- Press the "Connect Pistol" button.
- Enable Bluetooth on your device to allow the connection.
- Select "Search Pistol" to start scanning.
- Choose your pistol from the list of available devices.

If your pistol is not yet registered, enter the model and serial number, then complete the registration.



4 SETTINGS

In settings you can select the following functions:

LANGUAGE

Italian, English, German, French, Chinese and Spanish.

REACTION TIME

The reaction time defines the speed at which the trigger is released and can be individually adjusted to suit the shooter's preference.

The Morini CM162EI remains one of the most renowned pistols in the world. Its previous electronic system features a reaction time of approximately 1.6 ms. With the Morini CM200EI, this value has been significantly reduced to around 0.3 ms, resulting in a much faster and more responsive trigger. For beginner shooters, such a fast reaction time may be difficult to manage, which is why adaptability is essential.

For reference, the typical trigger speeds of Morini models are:

- Morini CM162M: approx. 3.5 ms
- Morini CM162EI: 1.6 ms
- Morini CM200EI: 0.3 ms

This new generation of electronic boards allows the shooter to individually adjust the reaction time from 0.1 ms to 1.6 ms, offering maximum flexibility to match personal shooting style and training needs.

SHOOTING ALIGNMENT

If the target line on the "Training" page is not accurate:

- Press "Calibrate" to start the alignment procedure.
- Follow the on-screen instructions to complete the calibration.

FIRMWARE UPDATE

- Tap "Update".
 - Do not disconnect the pistol or switch it off during the process.
- The LED will remain solid red until the update is complete.
- Once the update is finished, the device will perform:
 - 3 red flashes
 - 2 blue flashes
- At that point, you can switch off the pistol, turn it back on, and reconnect it.

Note: With the new firmware 2.0, we have optimized the LED indications on the board, with the following meanings:

- When the board is powered on, the software performs a general functional check, flashing as follows: 3 red blinks followed by 2 blue blinks. The board is functioning perfectly.
- After the initial check blinks, the board will display 1, 2, or 3 blinks depending on the battery charge level:
 - 3 blinks: battery between 75% and 100%
 - 2 blinks: battery between 25% and 50%
 - 1 blink: battery between 0% and 25%

The error codes from previous firmware versions remain unchanged and, if applicable, are displayed after the first blue blink during the initial functional check procedure.

TRACKING SENSITIVITY

Tracking sensitivity can be adjusted from Very Low to Very High.

This parameter affects how the line is displayed in the “Tracking” section during training, making it smoother or more responsive depending on the selected setting.

WHY IT IS IMPORTANT TO SET A PIN

According to International Shooting Sport Federation regulations, the use of any external device during an official competition is not permitted.

Setting a PIN helps prevent unauthorized access. This ensures that no one can accidentally connect to your pistol during a competition, avoiding the risk of disqualification.

SHOT COUNTER & RESET

This function tracks the total number of shots fired.

After replacing the battery, the counter provides an accurate shot count.

We recommend resetting the “Number of Shots” each time the battery is changed.

Based on our tests, a new battery allows approximately 32,000–33,000 shots.

5 TRAINING

The new training interface allows you to choose between free training mode or ISSF qualification simulations, available for both air pistol and free pistol.

This section represents the core of the new app, providing advanced insights into shooting performance through the following functions:

TARGET

Displays the horizontal movement of the pistol relative to the axis, helping you evaluate aiming stability.

Two visualization modes are available:

- **Line Mode:** shows the target with the shooting line, allowing you to clearly follow the direction and stability of your aim.
- **Trace Mode:** displays the target with a full trace of your shooting movement, providing a detailed view of your aiming path.

PITCH / ROLL

- Pitch: indicates vertical tilt (up/down).
- Roll: indicates lateral tilt (left/right).

CARTESIAN GRAPH

Displays the pistol's movement in real time. The aiming motion is represented by a blue trace, showing the live trajectory of the pistol.

When the trigger is pressed, a red dot marks the exact point at which the movement is recorded, enabling precise analysis of trigger control.

This graph provides a clear visualization of your movement pattern during aiming and at the exact moment of the shot, helping to improve consistency and overall trigger management.

The stability value is expressed on a scale from 0 to 100: higher values (close to 100) indicate greater instability, while lower values (close to 0) indicate greater stability.

ANALYSE HISTORY

On the new Training History page, you can view all your past training sessions and easily review them at any time.

You can either review individual training sessions (organized by series) or download them as a PDF file for further analysis or record-keeping.

6 ARM MUSCLE TRAINING & SUSPENSION TIME

ARM MUSCLE TRAINING

Welcome to the Arm Muscle Training guide. This feature allows you to perform a series of targeted exercises designed to improve arm strength and stability.

You can choose from a range of predefined training programs or create a customized routine based on your specific needs.

The graph helps you monitor your movements during the aiming phase, making it easier to identify moments of instability and improve overall control.

SUSPENSION TIME

The Suspension Time feature helps you develop a better perception and control of timing during the aiming phase.

Set a target time (for example, 10 seconds) and start your training session. The system automatically detects when the pistol is raised from the resting position and begins measuring the time.

- When you press “Start”, your phone screen will switch to aiming mode.
- A grey screen indicates that you should prepare and begin aiming.
- When you enter the aiming phase, the screen turns green.
- After pressing the trigger, the color changes based on your time setting:
 - Blue: the shot was taken exactly at the set time (e.g. perfect 10 seconds)
 - Yellow: the shot was taken within the time limit
 - Red: the time limit was exceeded
 - Follow the on-screen instructions to continue the exercise.

7 TROUBLESHOOTING

With this new electronic circuit, we aimed to simplify troubleshooting in case of a pistol malfunction.

Error codes are indicated by LED flashes immediately after the electronic board is powered on (initial sequence: 3 red flashes and 2 blue flashes).

After this initial sequence, if the electronic board starts emitting rapid flashes, it indicates that an anomaly is present. The error codes are then displayed immediately after the rapid flashing sequence, as follows:

- 1 flash: the trigger contacts are open. It is recommended to increase the second-stage trigger weight.
- If the problem persists, please contact your dealer.
- 2 flashes: the solenoid is not functioning. Please contact your dealer.
- 3 flashes: the electronic board is not functioning. Please contact your dealer.



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