

# Watch Testing Equipment



**PERRIN**  
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**#64-2310 Elma Cleaning Basket**

Cleaning basket for use with the Elmasolvex RM & SE and Super-Elite machines. Consists of plastic frame and 3 stainless mesh trays, a small parts basket with screw top and lid. 2 of the trays are partitioned. Trays are 64mm diameter.



**#64-2308 Elma Multi-movement Holder**

Holder for 6 assembled Movements. For use with the Elmasolvex SE & RM cleaning machine.



**#64-2309 Elma Basket Frame**

Basket frame for use with the Elmasolvex RM & SE and Super-Elite machines. Consists of plastic frame 70mm diameter.



**#64-2311 Elma Basket with Impeller**

For use with the Elmasolvex SE & RM cleaning machines.



**#64-2312 Elma Basket Lid**

Stainless steel basket lid for 64 mm basket for Elmasolvex VA SE RM & RM90 machines.



**#64-2313 Elma Square Glass Jar**

Square glass jar for Elma cleaning machine.



**#64-2314 Elma Jar Top**

Black jar top only for use on square glass jar for Elma cleaning machine.



**#64-2315 Elma Miniature Basket**

Elma miniature basket with lid



**#64-2317 Elma Cork ring at basket**

Outside diameter 95mm  
Inside diameter 75mm,  
and height 8mm



**#64-2318 Elma Cork Washer**

Outside diameter 95mm  
Inside diameter 22mm,  
and height 3mm



**#64-2319 Elma Cork Strip at Basket**

Outside diameter 95mm  
Inside diameter 31mm,  
and height 3mm

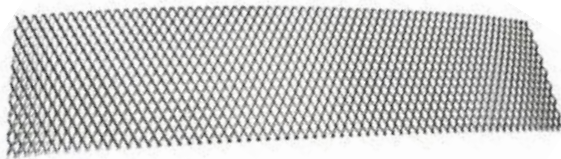


**#64-2320 Elma Cork Ring for Jar Lid**



**#64-1048417 Elma Wave Breaker**

Stainless steel wave breaker for  
Elmasolvex SE & RM cleaning machines.



**#64-1049708 Elma Round Jar**

Round glass jar  
for use with the  
Elmasolvex SE  
& RM cleaning  
machines.



**#64-6401-10 Elma Vacu-Proof**

Vacu-Proof  
for Elma  
Leak Controller



**#64-6401-D Elma Dome**

Replacement  
Dome for the  
64-6401 Elma  
Leak Controller



**#64-6401-G Elma Micrometer Gauge**

Micrometer gauge  
for the 64-6401  
Elma Leak Controller



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**#LR-415 L&R Industrial Dryer**

The Dryer evenly distributes hot air at a stable temperature. Small enough to fit on a countertop, The Dryer can be set up anywhere near a standard 110 Volt AC outlet. Made in USA and built to last. L&R Dryers are unconditionally guaranteed for one year. Dimensions: L 2540mm x W 157mm x H 102mm Heating area 180 sq. cm.



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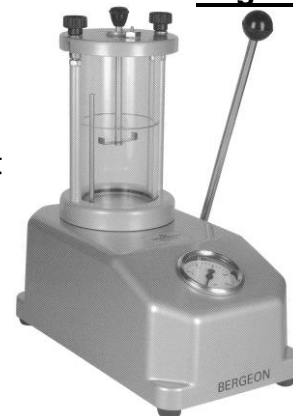
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# Bergeon Testing Equipment

## #64-5555/98 Bergeon® 6 Atmosphere WaterProof Tester

The advantage of using a water type tester is that when pressure is released and the watch is plunged into water, bubbles of air exiting the case will pinpoint where the case is leaking. IE; Crown, case gasket, crystal seal, etc. Watch is suspended above the water and air pressure is increased using the built-in manual pump. If the case leaks, the increased air pressure will seep into the case. Press the air release valve and plunge watch into water. The air, which leaked into the case under pressure will now exit the case, providing a visual indicator of the leak source. Tests to 6 atmospheres. (1 atm. = 10 meters)



## #64-5555-10 Bergeon 10 Atmosphere WaterProof Tester

A new execution of the original Bergeon 5555 tester. This tester is capable of pressure testing watches to 10 atmospheres. The manual built-in pump can be used for testing up to 6 atmospheres. For testing pressures higher than 6 atmospheres a compressor must be used. The compressor links with the tester by a nozzle connection on the side of the unit. All other functions and use methods are the same as 5555/98. New unit has a larger diameter water cylinder than the original unit for easier handling of larger cases and features a drop guard that prevents accidental sinking of cases. Removable cylinder allows for easier draining. (1 atm. = 10 meters)



## #64-5402 Bergeon Waterproof Tester (for watches with 2 piece stems)

Specially designed air pressure apparatus to test water tightness of watches with two piece stems, without the penetration of water. Procedure is simple. Remove the crown then place the watch on the fan-shaped support, engaging the case tube into the nylon pump nozzle. Pull the piston as far as it will go and then release. If the piston moves back towards the pump, then the watch is leaking and will have to be re-examined. If the piston remains still, place the watch in the water and observe. If no air bubbles appear, then watch is considered waterproof.



## Bergeon Auto-Test and Final -Test

Winder for automatic watches to test the winding function and mainspring breaking. Holds up to six watches at once. Can be used horizontally or vertically. Indicates on average, to within 5 seconds, the performance of a watch on the wrist. Replaces the static control of positions with a lifelike test, as if it was worn on the wrist.

The Auto-test turns at 4 revolutions per minute.

The Final-test turns at 1 revolution per minute.

#64-7802-110 .....final-test

#64-7803-110.....auto-test



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## 67-19106 Horotec® "Impulse Detector"

Detects and amplifies the impulses given off by the electronic side of a quartz watch. The impulses are represented by flashing diodes and an audible beep for each impulse emitted. Place the non-working watch on the detector if an impulse is shown, then the problem is mechanical. If no impulse, then the problem is electrical. Check battery, if cell is dead, replace and repeat test. If the battery is good and no impulse was detected, then the problem is electrical. This is a basic, fast and easy diagnostic tool. (Operates on 1-9V battery)



## 67-19107 Horotec® "Turbo"

Device for unjamming and testing the wheel train of quartz watches. The TURBO emits a series of high speed impulses which cause the gear train to operate 60 times its usual speed. Can be used to kick start movements, find defects in the wheel train or to check that the hands are clearing the dial markers and each other all around the dial etc. Operates on 1-9V battery.



## #67-19115 Horotec® "FlashTest"

Horotec Flashtest a multifunctional portable touchscreen tester FLASHTEST specifically designed for the control of watches and quartz mechanisms. This precision device is easy to handle and is intended to test analogue quartz watches and movements with both closed and open watchcases. Measurements and functions as follows:



Measuring tension of unloaded batteries from 0 to 19.999 V (BATTERY)

Measuring the movement supply voltage (1.5 V or 3.0 V) (BATTERY)

Measuring the coil resistance (COIL)

Unjamming the wheel trains (TURBO)

Measuring (gain/loss) the stability of the rate of analogue quartz watches (ACCURACY)

Checking the correct functioning of the circuit: electrical impulse and consumption of the electric circuit (CIRCUIT)

Measuring the consumption of a watch during its operation. (CIRCUIT)

Display: colour touchscreen 48 x 36 mm.  
Delivered with 2 precision probes, 12V adaptor (input 115 - 230V AC / output 12V DC), 9V battery and operating manual

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## #67-19214 MTG-1100

Timegrapher tester for mechanical watches.

With Microphone  
SMIC-1 / 90 - 240 V

Test the performance of mechanical watches with ease. The MTG-1100 tests and displays amplitude, along with displaying on the 4.3" LCD screen the beat noise, rate in seconds per day is displayed as either fast or slow and the beat error in "ms" milli-seconds is also tested. Beat rates from 18000, 19800, 21600, 25200, 28800 up to 36000 bph of mechanical watches can be tested. The beat rates are automatically identified by this tester in just a few seconds or you can change and manually set the beat rate to be tested. The lift angle is pre-set to default value of 52 degrees. If you know the correct lift angle of the watch you are testing, you can manually set the correct lift angle to get the most accurate amplitude measurement possible. Uses the standard microphone rotates to six different positions. While testing using the TYMC tester, you can hear the beat noise from a built-in speaker, you can turn on and off the sound as you wish.



single phase power supply AC100V-240V (power consumption is about 8 watts)

- Displays daily rate in seconds per day (+/-300 s/d), Accurate to (+/-1 s/d)
- Amplitude: 90 - 350 degree, allowable tolerance (+/-3 degree)
- Beat error: 0-4.0ms, allowable tolerance (+/-0.1ms)
- Life angle: 20-70 degree, ex-works value: 52 degree
- 



## #67-19213 MTG-2200 Timegrapher tester for mechanical watches.

With Standard Microphone / 90 - 240 V

This device is an economic tester. It is equipped with a standard microphone and a 5" high-resolution digital coloured LCD screen. There are three keys to operate. The tester has all the basic test functions. It has three display models of diagram of beat noises. This is the 2<sup>nd</sup> most affordable model available, compact, and easy to use.



**#67-19209 TESTER TIMEGRAPHER MTG-9900 FOR MECHANICAL WATCHES, WITH MICROPHONE /**

**90V-240V** The MTG-9900 is a new generation timegrapher. Equipped with digital color LCD touch screen, and a regular manual microphone. Test and display the beat noise, amplitude and beat error of normal mechanical watches and coaxial watches. Beat rates from 12000, 14400, 18000, 19800, 21600, 25200, 28800, and 36000



b/h can be tested. The beat rates are automatically identified by this tester in just a few seconds or you can change and manually set the beat rate to be tested. The lift angle is pre-set to default value of 52 degrees for normal watches and 38 degrees for coaxial watches. If you know the correct lift angle of the watch you are testing, you can manually set the correct lift angle to get the most accurate Amplitude measurement possible. Single phase power supply AC100V-240V (power consumption is about 8 watts)

- Displays daily rate in seconds per day (+/-300 s/d), Accurate to (+/-1 s/d)
- Amplitude: 90 - 350 degree, allowable tolerance (+/-3 degree)
- Beat error: 0-4.0ms, allowable tolerance (+/-0.1ms)
- Life angle: 20-70 degree, default value: 52 degree



**#67-19209-A TESTER TIMEGRAPHER MTG-9900A FOR MECHANICAL WATCHES, WITH MICROPHONE + PRINTER / 90V-240V**

The MTG-9900A is a new generation timegrapher with top configuration and optimal performance. Equipped with digital color LCD touch screen, automatic microphone, and mini heat sensitive printer. Test and display the beat noise, amplitude and beat error of normal mechanical watches and coaxial watches. Beat rates from 12000, 14400, 18000, 19800, 21600, 25200, 28800, and 36000 b/h can be tested. Rate/Amplitude monitoring for up to 100 hours. The beat rates are automatically identified by this tester in just a few seconds or you can change and manually set the beat rate to be tested. The lift angle is pre-set to default value of 52 degrees for normal watches and 38 degrees for coaxial watches. If you know the correct lift angle of the watch you are testing, you can manually set the correct lift angle to get the most accurate Amplitude measurement possible. The automatic microphone can be manually rotated by hand or by program.

- Single phase power supply AC100V-240V (power consumption is about 8 watts)
- Displays daily rate in seconds per day (+/-300 s/d), Accurate to (+/-1 s/d)
- Amplitude: 90 - 350 degree, allowable tolerance (+/-3 degree)
- Beat error: 0-4.0ms, allowable tolerance (+/-0.1ms)
- e: 20-70 degree, default value: 52 degree



**#67-19175B AUTOMATIC MICROPHONE AUTOMIC-2 FOR TIMEGRAPHER MTG TESTERS**



## #67-19000 Universal Battery Tester

General use analogue cell tester. Tests 1.5V & 3V watch cells plus AA – AAA – C – D – N – 9V. Also tests the 12V batteries for lighters and car remotes. Watch cells can be inserted into the side of the unit for a quick "push of the button" test. Other types can be tested using the attached leads. Also features a negative and positive contact spot on the surface of the tester.



## #67-19004 "Renata" Watch Cell Tester & Impulse Detector

Compact and rugged analogue watch cell tester. Tests 1.5V & 3V cells. Features a built-in impulse detector, which indicates with sound and lights if the electronic portion of the watch is working and putting out a drive impulse to the rotor without even opening the watch. Can be used to determine if the movement is having electronic or mechanical problems.



## #67-19105 Battery, Impulse & Coil Tester

- Tests silver oxide (high drain & low drain) plus 3V lithium cells.
- Tests for coil continuity using detachable leads.
- Features a built-in impulse detector.



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## #59-01743 The Pearl Watch Cleaning Machine

An economical watch cleaning machine made in India. Constructed with chrome plated spring loaded self-centering column with handle. It is robustly built, with a self-lubricating noiseless AC motor. Comes with 2 stainless steel baskets for cleaning watches without mixing parts. The heater is enclosed which gives no direct heat during the drying process. It also features 3 separate switches for controlling the heater and motor and forward/reverse functions.

Comes complete with:

- 5 glass jars
- 2 stainless steel baskets with 3 inner baskets
- Instructions

## #59-01744 Replacement jars for Pearl Watch Cleaning Machine



need more product info?  
See manufacturer websites.

[www.bergeon.ch](http://www.bergeon.ch)  
[www.lrultrasonics.com](http://www.lrultrasonics.com)

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