



| MSA           | Voltage                 | Size               | Kg    |
|---------------|-------------------------|--------------------|-------|
| <b>19.349</b> | 100 - 240 V<br>50-60 Hz | 135 x 289 x 225 mm | 8.340 |

Watch winder for 2 watches.

Noiseless, reliable and modern design with large transparent windows.

Winding function : clockwise and anti-clockwise, automatic (bi-directional).

4 timer modes (TPD=Turns Per Day) :

A : 650 TPD, 13 cycles, 50 turns per cycle, then rest.

Each cycle takes 110 minutes.

B : 900 TPD, 18 cycles, 50 turns per cycle, then rest.

Each cycle takes 80 minutes.

C : 1200 TPD, 24 cycles, 50 turns per cycle, then rest.

Each cycle takes 60 minutes.

D : 1500 TPD, 30 cycles, 50 turns per cycle, then rest.

Each cycle takes 48 minutes.

*Operates via a 100 - 240 V network adapter, delivered with the device.*



| MSA           | Voltage                 | Size               | Kg    |
|---------------|-------------------------|--------------------|-------|
| <b>19.363</b> | 100 - 240 V<br>50-60 Hz | 141 x 192 x 243 mm | 1.175 |

Watch winder for 2 watches.

Noiseless, reliable and modern design with large transparent windows.

Winding function : clockwise and anti-clockwise, automatic (bi-directional).

4 timer modes :

A : 650 TPD, rotates 7 min. (50 rotations), rest 104 min., then new cycle.

B : 900 TPD, rotates 7 min. (50 rotations), rest 73 min., then new cycle.

C : 1200 TPD, rotates 7 min. (50 rotations), rest 53 min., then new cycle.

D : 1500 TPD, rotates 7 min. (50 rotations), rest 41 min., then new cycle.

cycle.

*Operates via a 100 - 240 V network adapter, delivered with the device.*



| MSA           | Voltage                 | Size               | Kg    |
|---------------|-------------------------|--------------------|-------|
| <b>19.360</b> | 100 - 240 V<br>50-60 Hz | 151 x 151 x 171 mm | 0.450 |

Watch winder for 1 watch.

Noiseless, reliable and modern design with a large transparent window and lighting spread by LED.

Winding function : clockwise and anti-clockwise, automatic (bi-directional).

4 timer modes (TPD=Turns Per Day) :

A : 650 TPD, rotates 5 min., rest 79 min., then new cycle.

B : 900 TPD, rotates 5 min., rest 56 min., then new cycle.

C : 1200 TPD, rotates 5 min., rest 41 min., then new cycle.

D : 1500 TPD, rotates 5 min., rest 32 min., then new cycle.

3 buttons on the back of the device :

- TPD (selection of the number of turns per day)

- LED (device lighting)

- Switching on and selecting the direction of rotation.

*Operates via a 100 - 240 V network adapter, delivered with the device.*



| MSA        | Apparatus                    | Voltage | Kg    |
|------------|------------------------------|---------|-------|
| 19.205     | REGLOMAT Final-Test          | 220 V   | 2.780 |
| 19.205-110 | REGLOMAT Final-Test          | 110 V   | 2.780 |
| 19.305     | (1) CYCLOTEST Automatic-Test | 220 V   | 2.905 |
| 19.305-110 | CYCLOTEST Automatic-Test     | 110 V   | 2.905 |

Watch winder for 18 watches with :  
- 3 arms with clips for 9 watches without bracelets  
- 3 arms with foam for 9 watches with bracelets.

The REGLOMAT apparatus (1 rpm) tests the following : slow winding, power on wrist, shock tests, calendar and detects hidden defects.

The CYCLOTEST apparatus (4 rpm) tests the following : accelerated winding, wheel (and pinion) speed, and power reserve.

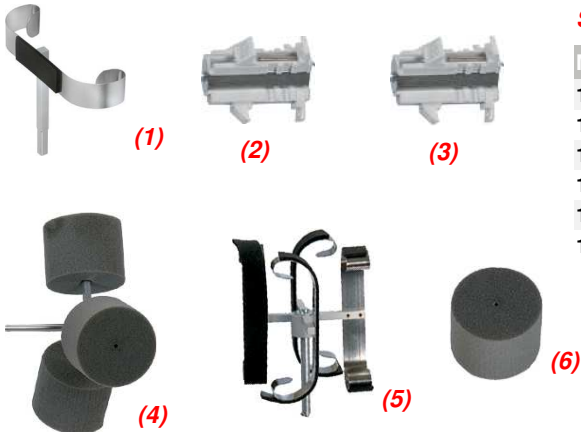


| MSA        | Apparatus                | Voltage | Kg    |
|------------|--------------------------|---------|-------|
| 19.206     | (1) REGLOMAT Final-Test  | 220 V   | 2.780 |
| 19.206-110 | REGLOMAT Final-Test      | 110 V   | 2.780 |
| 19.306     | CYCLOTEST Automatic-Test | 220 V   | 2.905 |
| 19.306-110 | CYCLOTEST Automatic-Test | 110 V   | 2.905 |

Watch Winder for 20 watches with :  
- 2 arms with clips for 6 watches without bracelets  
- 2 arms with foams for 6 watches with bracelets  
- 2 arms with springs for 8 watches with bracelets.

The REGLOMAT apparatus (1 rpm) tests the following : slow winding, power on wrist, shock tests, calendar and detects hidden defects.

The CYCLOTEST apparatus (4 rpm) tests the following : accelerated winding, winding speed and power reserve.



**Spare parts for MSA19.205, MSA19.206, MSA19.305 and MSA19.306 :**

| MSA      | Item                                           | Kg    |
|----------|------------------------------------------------|-------|
| 19.201-A | Arm with spring for 1 watch with bracelet      | 0.015 |
| 19.201-B | Arm with clips for 2 watches without bracelets | 0.052 |
| 19.205-A | Arm with clips for 3 watches without bracelets | 0.056 |
| 19.205-B | Arm with foams for 3 watches with bracelets    | 0.064 |
| 19.205-C | Arm with springs for 4 watches with bracelet   | 0.100 |
| 19.205-E | Foam without arm                               | 0.001 |



(1)

| MSA    | Version                                       | Voltage     | Size               | Kg     |
|--------|-----------------------------------------------|-------------|--------------------|--------|
| 19.450 | (1) Without arms                              | 100 - 240 V | 465 x 325 x 520 mm | 10.500 |
| 19.451 | With 6 arms<br>MSA19.450-B                    | 100 - 240 V | 635 x 325 x 585 mm | 11.000 |
| 19.454 | PRO without arms,<br>with protection<br>cover | 100 - 240 V | 635 x 325 x 585 mm | 16.000 |

CYCLOMOTION watch winder for automatic watch winding and for work testing.

Noiseless motor equipped with a clutch system suitable for heavy and big watches. It is controlled by soft touch keys on the front plate.

Maximum capacity : 24 watches (6 arms for 4 wrist watches each).

Rotation speeds : 1 or 4 rpm.

#### Spare parts :

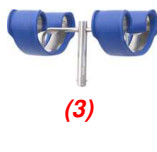
| MSA      | Item                                   |
|----------|----------------------------------------|
| 19.450-A | (1) Arm for 2 watches with bracelet    |
| 19.450-B | (2) Arm for 4 watches with bracelet    |
| 19.450-C | (3) Arm for 2 watches with bracelet    |
| 19.450-D | (4) Arm for 4 watches with bracelet    |
| 19.450-E | (5) Arm for 4 watches without bracelet |
| 19.450-F | (6) Wall mounting kit                  |
| 19.453   | (7) Box for 4 watches without bracelet |



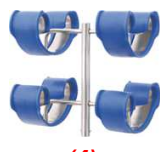
(1)



(2)



(3)



(4)



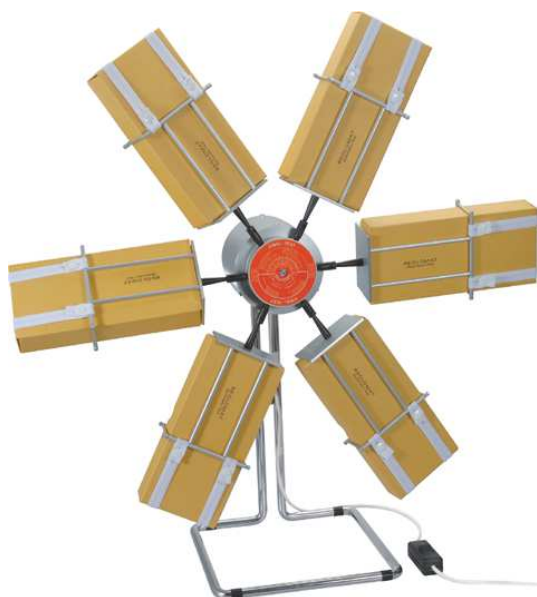
(5)



(6)



(7)



| MSA    | Voltage | Kg    |
|--------|---------|-------|
| 19.320 | 220 V   | 8.000 |

Watch winder for 60 watches with :

- 6 arms with 6 boxes for 10 watches without bracelets or 10 movements.  
The CYCLOTEST tests the following : winding acceleration, winding speed and power reserve.

Rotation speed : 4 rpm.

#### Spare parts :

| MSA       | Item                                                  |
|-----------|-------------------------------------------------------|
| 19.320-B  | Button for closing the rubber MSA19.320-E             |
| 19.320-C  | Box for 10 watches or movements                       |
| 19.320-E  | Rubber for holding the box MSA19.320-C                |
| 19.320-EB | Rubber with 2 buttons for holding the box MSA19.320-C |



(a) Delivered without support for watches with bracelet

| MSA    | Voltage | Size            | Kg     |
|--------|---------|-----------------|--------|
| 19.372 | 230 V   | 55 x 40 x 45 cm | 13.000 |

CLINAX, small capacity 45° pendulum rotary movement machine.  
For winding automatic watches in small series.

Capacity : up to 60 watch heads (or movements) and/or 16 watches with bracelets (depending on the type of assembly).

**Accessory :**

| MSA      | Item                                  |
|----------|---------------------------------------|
| 19.372-A | (a) Support for watches with bracelet |



| MSA    | Voltage | Size             | Kg     |
|--------|---------|------------------|--------|
| 19.371 | 230 V   | 110 x 48 x 49 cm | 63.000 |

STANDARD III, medium capacity 45° pendulum rotary movement machine.  
It is used for industrial winding of automatic watches, as well as for shock tests on watch heads.

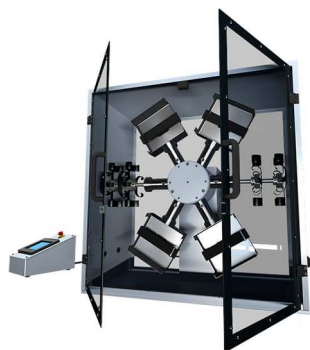
Capacity : up to 250 watch heads (or movements).



| MSA    | Voltage | Size             | Kg     |
|--------|---------|------------------|--------|
| 19.376 | 230 V   | 150 x 53 x 50 cm | 98.000 |

SUPER E, high capacity 45° pendulum rotary movement machine.  
It is used for industrial winding of automatic watches, as well as for shock tests on watch heads.

Capacity : up to 500 watch heads (or movements).



| MSA        | Voltage | Size            | Kg     |
|------------|---------|-----------------|--------|
| 19.370     | 230 V   | 56 x 60 x 33 cm | 37.000 |
| 19.370-110 | 110 V   | 56 x 60 x 33 cm | 37.000 |

DUOTEST 48, medium capacity rotary combination machine.  
This machine is specially designed for small quantities and is very suitable for after-sales service and shops.

It is used for winding automatic watches and for rate tests.

Capacity : up to 48 watch heads (or movements) or 48 watches with bracelets (depending on the type of assembly).



| MSA        | Voltage           | Size              | Kg      |
|------------|-------------------|-------------------|---------|
| 19.399     | 230 V / 50 Hz     | 110 x 110 x 50 cm | 128.000 |
| 19.399-110 | (a) 110 V / 50 Hz | 110 x 110 x 50 cm | 128.000 |

DUOTEST 4, high capacity rotary combination machine.

It is used for winding automatic watches and for rate tests.

Capacity : up to 300 watch heads (or movements) or 120 watches with bracelets (depending on the type of assembly).

(a) Requires a 110 V transformer



| MSA             | Size              | Kg    |
|-----------------|-------------------|-------|
| <b>19.373-F</b> | 312 x 128 x 23 mm | 0.100 |

Blue plastic container.



| MSA             | Size              | Kg    |
|-----------------|-------------------|-------|
| <b>19.374-F</b> | 312 x 128 x 18 mm | 0.100 |

Transparent cover for plastic containers.



(1)



(2)



(3)



(4)

| MSA             | Shape             | Cases | Cases Size   | Notch   | Kg    |
|-----------------|-------------------|-------|--------------|---------|-------|
| <b>19.373-A</b> | Rectangular       | 8     | 70 x 50 mm   | Without | 0.010 |
| <b>19.373-B</b> | (1) Television    | 5     | 66 x 53 mm   | 2       | 0.100 |
| <b>19.373-C</b> | (2) Television    | 10    | 51 x 50.5 mm | 1       | 0.100 |
| <b>19.373-E</b> | (3) TV + Bracelet | 5+1   | 51 x 50.5 mm | 1       | 0.100 |
| <b>19.374-A</b> | Round             | 10    | Ø 50 mm      | 1       | 0.100 |
| <b>19.374-B</b> | Round             | 10    | Ø 40 mm      | 1       | 0.100 |
| <b>19.374-C</b> | (4) Round         | 10    | Ø 45 mm      | 1       | 0.100 |
| <b>19.374-D</b> | Round             | 10    | Ø 48 mm      | 1       | 0.100 |
| <b>19.374-E</b> | Watch + Bracelet  | 2     | -            | Without | 0.100 |

Blue plastic container with cut foams in different shapes.  
To be used with apparatus MSA19.370, 19.371, 19.372, 19.376 and 19.399.  
For watches with or without bracelets and movements.  
*Delivered without cover (see MSA19.374-F).*



| MSA             | Size              | Kg    |
|-----------------|-------------------|-------|
| <b>19.373-D</b> | 330 x 165 x 40 mm | 0.100 |

Blue plastic container with cut foam and transparent cover.  
Cases shape : television 62 x 55 mm with 2 notches.

*To be used with apparatus MSA19.370, 19.371, 19.372, 19.376 and 19.399 (according to tray holder).*



| MSA           | Size              |
|---------------|-------------------|
| <b>19.373</b> | 240 x 110 x 20 mm |

Green plastic container (10 compartments) and transparent lid with protection foams.

*To be used with apparatus MSA19.370, 19.371, 19.372, 19.376 and 19.399 (according to tray holder).*