

# 12



HOROTEC® TWEEZERS FOR WATCHMAKING

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HOROTEC® ALUMINIUM TWEEZERS

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HOROSWISS® TWEEZERS

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VARIOUS TWEEZERS

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HOROTEC® tweezers are made for the most demanding watchmakers. The tips are perfectly aligned and the inside is hand polished to assure the best possible finishing. The steels and other alloys are carefully selected to assure top quality.



MSA12.380



MSA12.385



MSA12.386

| MSA    | Tweezers        | Material                                                            | Packaging size   | Kg    |
|--------|-----------------|---------------------------------------------------------------------|------------------|-------|
| 12.380 | 1 - 3 - 5 - 7   | Carbon steel                                                        | 90 x 165 x 27 mm | 0.148 |
| 12.381 | 1 - 3 - 5 - 7   | Stainless steel                                                     | 90 x 165 x 27 mm | 0.148 |
| 12.382 | 1 - 3 - 5 - 7   | Antimagnetic steel 904L                                             | 90 x 165 x 27 mm | 0.148 |
| 12.383 | 2 - 2A - 5 - 51 | Antimagnetic steel 904L, sand blasted body and mirror polished tips | 90 x 165 x 27 mm | 0.142 |
| 12.384 | 3 - 5 - 7 - 27  | Antimagnetic steel 904L, sand blasted body and mirror polished tips | 90 x 165 x 27 mm | 0.144 |
| 12.385 | 2 - 3           | Stainless steel                                                     | 90 x 165 x 27 mm | 0.149 |
|        | 2 - 3           | Antimagnetic steel 904L, sand blasted body and mirror polished tips |                  |       |
| 12.386 | 1 - 3 - 4 - 5   | Antimagnetic steel 904L                                             | 90 x 165 x 27 mm | 0.147 |
| 12.387 | 1 - 2 - 3 - 5   | Stainless steel                                                     | 90 x 165 x 27 mm | 0.151 |
| 12.388 | 1 - 2 - 3 - 5   | Antimagnetic steel 904L                                             | 90 x 165 x 27 mm | 0.151 |
| 12.389 | 00              | Carbon steel                                                        | 90 x 165 x 27 mm | 0.152 |
|        | 1 - 3 - F1      | Antimagnetic steel 904L, sand blasted body and mirror polished tips |                  |       |
| 12.390 | 2 - 3 - 4 - 5   | Antimagnetic steel 904L, sand blasted body and mirror polished tips | 90 x 165 x 27 mm | 0.142 |

Assortment of tweezers.  
Delivered in a wooden box.



MSA12.300-x ..... Hard carbon steel  
MSA12.301-x ..... Stainless steel  
MSA12.302-x ..... Antimagnetic steel 904L  
MSA12.303-x ..... Brass  
MSA12.304-x ..... 100% antimagnetic nickel  
MSA12.305-x ..... Beryllium copper  
MSA12.306-x ..... Bronze

## STANDARD POLISHED BODY AND TIPS !



00

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.300-00 | Carbon steel            | 120 mm | 0.022 |
| 12.301-00 | Stainless steel         | 120 mm | 0.022 |
| 12.302-00 | Antimagnetic steel 904L | 120 mm | 0.022 |

Thick tweezers with flat tips, Geneva shape.



0

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-0 | Carbon steel            | 120 mm | 0.018 |
| 12.301-0 | Stainless steel         | 120 mm | 0.018 |
| 12.302-0 | Antimagnetic steel 904L | 120 mm | 0.018 |

Fine tweezers, Geneva shape.



0C

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.302-0C | Antimagnetic steel 904L | 110 mm | 0.008 |

Fine and short tweezers for hairsprings.



1

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-1 | Carbon steel            | 120 mm | 0.016 |
| 12.301-1 | Stainless steel         | 120 mm | 0.016 |
| 12.302-1 | Antimagnetic steel 904L | 120 mm | 0.016 |
| 12.305-1 | Beryllium copper        | 120 mm | 0.016 |

Strong tweezers.



2

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-2 | Carbon steel            | 120 mm | 0.018 |
| 12.301-2 | Stainless steel         | 120 mm | 0.018 |
| 12.302-2 | Antimagnetic steel 904L | 120 mm | 0.018 |

Strong tweezers with fine and flat tips.



2A

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.302-2A | Antimagnetic steel 904L | 120 mm | 0.014 |

Tweezers with large and round tips for straightening hands.

## HOROTEC® TWEEZERS FOR WATCHMAKING



3

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-3 | Carbon steel            | 120 mm | 0.014 |
| 12.301-3 | Stainless steel         | 120 mm | 0.014 |
| 12.302-3 | Antimagnetic steel 904L | 120 mm | 0.014 |
| 12.305-3 | Beryllium copper        | 120 mm | 0.014 |

Fine tweezers for hairsprings.



3C

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.300-3C | Carbon steel            | 110 mm | 0.013 |
| 12.301-3C | Stainless steel         | 110 mm | 0.013 |
| 12.302-3C | Antimagnetic steel 904L | 110 mm | 0.013 |

Fine and short tweezers for hairsprings.



4

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-4 | Carbon steel            | 110 mm | 0.014 |
| 12.301-4 | Stainless steel         | 110 mm | 0.014 |
| 12.302-4 | Antimagnetic steel 904L | 110 mm | 0.014 |
| 12.303-4 | Brass                   | 110 mm | 0.014 |

Tweezers with long and fine tips for hairsprings.



5

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-5 | Carbon steel            | 110 mm | 0.013 |
| 12.301-5 | Stainless steel         | 110 mm | 0.013 |
| 12.302-5 | Antimagnetic steel 904L | 110 mm | 0.013 |

Short and extra-fine tweezers for hairsprings.



5-SP

| MSA        | Material                | Length | Kg    |
|------------|-------------------------|--------|-------|
| 12.302-5SP | Antimagnetic steel 904L | 105 mm | 0.008 |

Short and extra-fine tweezers for hairsprings.



6

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-6 | Carbon steel            | 115 mm | 0.018 |
| 12.301-6 | Stainless steel         | 115 mm | 0.018 |
| 12.302-6 | Antimagnetic steel 904L | 115 mm | 0.018 |

Tweezers hook shape and fine tips.



7

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-7 | Carbon steel            | 115 mm | 0.015 |
| 12.301-7 | Stainless steel         | 115 mm | 0.015 |
| 12.302-7 | Antimagnetic steel 904L | 115 mm | 0.015 |

Curved and extra-fine tweezers for hairsprings.





11

| MSA       | Material                 | Length | Kg    |
|-----------|--------------------------|--------|-------|
| 12.304-11 | 100% antimagnetic nickel | 120 mm | 0.019 |

Tweezers with strong tips.



12

| MSA       | Material                 | Length | Kg    |
|-----------|--------------------------|--------|-------|
| 12.304-12 | 100% antimagnetic nickel | 120 mm | 0.019 |

Tweezers with fine tips.



14

| MSA       | Material     | Length | Kg    |
|-----------|--------------|--------|-------|
| 12.300-14 | Carbon steel | 110 mm | 0.030 |

Simple tweezers for removing and holding hands.



14A

| MSA        | Material     | Length | Kg    |
|------------|--------------|--------|-------|
| 12.300-14A | Carbon steel | 115 mm | 0.021 |

Tweezers with sliding locker for removing and holding hands.



15

| MSA       | Material     | Length | Kg    |
|-----------|--------------|--------|-------|
| 12.300-15 | Carbon steel | 105 mm | 0.014 |

Tweezers for marking hairsprings.



15A

| MSA        | Material     | Length | Kg    |
|------------|--------------|--------|-------|
| 12.300-15A | Carbon steel | 115 mm | 0.035 |

Strong tweezers for cutting hairsprings.



27

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.301-27 | Stainless steel         | 135 mm | 0.017 |
| 12.302-27 | Antimagnetic steel 904L | 135 mm | 0.017 |

Strong and pointed tweezers for stones.

## HOROTEC® TWEEZERS FOR WATCHMAKING



**AA**

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.300-AA | Carbon steel            | 125 mm | 0.020 |
| 12.301-AA | Stainless steel         | 125 mm | 0.020 |
| 12.302-AA | Antimagnetic steel 904L | 125 mm | 0.020 |
| 12.303-AA | Brass                   | 125 mm | 0.020 |

Strong and elegant tweezers for ordinary use.



**AM**

| MSA       | Material           | Length | Kg    |
|-----------|--------------------|--------|-------|
| 12.303-AM | Antimagnetic brass | 130 mm | 0.022 |

Tweezers for hairsprings, Parisian shape.



**B1**

| MSA       | Material | Length | Kg    |
|-----------|----------|--------|-------|
| 12.303-B1 | Brass    | 130 mm | 0.019 |

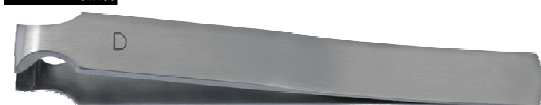
Simple tweezers with fine tips.



**B5**

| MSA       | Material                 | Length | Kg    |
|-----------|--------------------------|--------|-------|
| 12.300-B5 | Carbon steel             | 125 mm | 0.019 |
| 12.301-B5 | Stainless steel          | 125 mm | 0.019 |
| 12.303-B5 | Brass                    | 125 mm | 0.019 |
| 12.304-B5 | 100% antimagnetic nickel | 125 mm | 0.019 |
| 12.306-B5 | Bronze                   | 125 mm | 0.019 |
| 12.307-B5 | Gilt brass               | 125 mm | 0.022 |

Strong and pointed tweezers.



**D**

| MSA      | Material     | Length | Kg    |
|----------|--------------|--------|-------|
| 12.300-D | Carbon steel | 95 mm  | 0.026 |

Tweezers for cutting and removing rollers, pivots and pinions.



**F**

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.300-F | Carbon steel            | 115 mm | 0.016 |
| 12.301-F | Stainless steel         | 115 mm | 0.016 |
| 12.302-F | Antimagnetic steel 904L | 115 mm | 0.016 |

Tweezers with flat tips for straightening hands.



**MM**

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.300-MM | Carbon steel            | 125 mm | 0.019 |
| 12.301-MM | Stainless steel         | 125 mm | 0.019 |
| 12.302-MM | Antimagnetic steel 904L | 125 mm | 0.019 |
| 12.303-MM | Brass                   | 125 mm | 0.019 |

Tweezers for hairsprings, Parisian shape.



**P**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.300-P</b> | Carbon steel            | 120 mm | 0.014 |
| <b>12.301-P</b> | Stainless steel         | 120 mm | 0.014 |
| <b>12.302-P</b> | Antimagnetic steel 904L | 120 mm | 0.014 |

Simple tweezers with strong tips.



**S**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.300-S</b> | Carbon steel            | 120 mm | 0.015 |
| <b>12.301-S</b> | Stainless steel         | 120 mm | 0.015 |
| <b>12.302-S</b> | Antimagnetic steel 904L | 120 mm | 0.015 |

Simple tweezers with fine tips.



**S5**

| MSA              | Material                 | Length | Kg    |
|------------------|--------------------------|--------|-------|
| <b>12.303-S5</b> | Brass                    | 130 mm | 0.022 |
| <b>12.304-S5</b> | 100% antimagnetic nickel | 130 mm | 0.022 |
| <b>12.306-S5</b> | Bronze                   | 130 mm | 0.019 |

Simple tweezers with fine tips.



**S5C**

| MSA               | Material | Length | Kg    |
|-------------------|----------|--------|-------|
| <b>12.303-S5C</b> | Brass    | 135 mm | 0.021 |

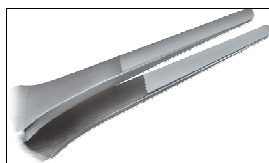
Bent tweezers with fine tips.



**SS**

| MSA              | Material                | Length | Kg    |
|------------------|-------------------------|--------|-------|
| <b>12.300-SS</b> | Carbon steel            | 140 mm | 0.015 |
| <b>12.301-SS</b> | Stainless steel         | 140 mm | 0.015 |
| <b>12.302-SS</b> | Antimagnetic steel 904L | 140 mm | 0.015 |

Long and narrow tweezers with fine tips.



## HIGH QUALITY FINISHING. SAND BLASTED BODY AND MIRROR POLISHED TIPS !



1

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-1 | Antimagnetic steel 904L | 120 mm | 0.013 |

Strong tweezers, sand blasted body and mirror polished tips.



2

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-2 | Antimagnetic steel 904L | 120 mm | 0.014 |

Strong tweezers with fine and flat tips, sand blasted body and mirror polished tips.



2A

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.312-2A | Antimagnetic steel 904L | 120 mm | 0.014 |

Large tweezers with round tips for straightening hands, sand blasted body and mirror polished tips.



3

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-3 | Antimagnetic steel 904L | 120 mm | 0.013 |

Fine tweezers for hairsprings, sand blasted body and mirror polished tips.



4

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-4 | Antimagnetic steel 904L | 110 mm | 0.013 |

Tweezers with long and fine tips for hairsprings, sand blasted body and mirror polished tips.



5

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-5 | Antimagnetic steel 904L | 110 mm | 0.012 |

Extra-fine tweezers for hairsprings, sand blasted body and mirror polished tips.



7

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-7 | Antimagnetic steel 904L | 115 mm | 0.013 |

Curved and extra-fine tweezers for hairsprings, sand blasted body and mirror polished tips.



27

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.312-27 | Antimagnetic steel 904L | 135 mm | 0.016 |

Strong and pointed tweezers for stones, sand blasted body and mirror polished tips.



51

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.312-51 | Antimagnetic steel 904L | 115 mm | 0.012 |

Bent and extra-fine tweezers for hairsprings, sand blasted body and mirror polished tips.



F

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.312-F | Antimagnetic steel 904L | 120 mm | 0.015 |

Tweezers with standard flat tips for straightening hands, sand blasted body and mirror polished tips.

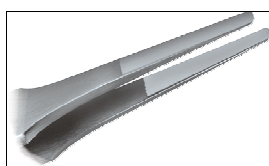


F1

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.312-F1 | Antimagnetic steel 904L | 120 mm | 0.016 |

Tweezers with fine round tips for straightening hands, sand blasted body and mirror polished tips.





## STANDARD POLISHED BODY AND MIRROR POLISHED TIPS !



1

| MSA        | Material                | Length | Kg    |
|------------|-------------------------|--------|-------|
| 12.302-1/1 | Antimagnetic steel 904L | 120 mm | 0.016 |

Strong tweezers with mirror polished tips.



2

| MSA        | Material                | Length | Kg    |
|------------|-------------------------|--------|-------|
| 12.302-2/1 | Antimagnetic steel 904L | 120 mm | 0.015 |

Strong tweezers with fine and flat mirror polished tips.



2A

| MSA         | Material                | Length | Kg    |
|-------------|-------------------------|--------|-------|
| 12.302-2A/1 | Antimagnetic steel 904L | 120 mm | 0.016 |

Large tweezers with round mirror polished tips, for straightening hands.



3

| MSA        | Material                | Length | Kg    |
|------------|-------------------------|--------|-------|
| 12.302-3/1 | Antimagnetic steel 904L | 120 mm | 0.014 |

Fine tweezers for hairsprings, mirror polished tips.



5

| MSA        | Material                | Length | Kg    |
|------------|-------------------------|--------|-------|
| 12.302-5/1 | Antimagnetic steel 904L | 110 mm | 0.013 |

Short and extra-fine tweezers for hairsprings, mirror polished tips.



7

| MSA        | Material                | Length | Kg    |
|------------|-------------------------|--------|-------|
| 12.302-7/1 | Antimagnetic steel 904L | 115 mm | 0.013 |

Curved and extra-fine tweezers with mirror polished tips.



51

| MSA         | Material                | Length | Kg    |
|-------------|-------------------------|--------|-------|
| 12.302-51/1 | Antimagnetic steel 904L | 115 mm | 0.012 |

Tweezers for hairsprings with bent and extra-fine mirror polished tips.



F1

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.301-F1 | Stainless steel         | 115 mm | 0.017 |
| 12.302-F1 | Antimagnetic steel 904L | 115 mm | 0.017 |

Tweezers with round mirror polished tips, for straightening hands.

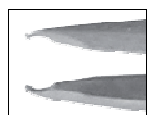
## HOROtec® tweezers for special works.



2A-H

| MSA         | Material                | Length | Kg    |
|-------------|-------------------------|--------|-------|
| 12.312-2A-H | Antimagnetic steel 904L | 118 mm | 0.016 |

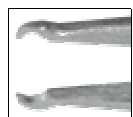
Stacked tweezers for hands fitting, mirror finishing.



LG

| MSA        | Material        | Ø Tightening | Kg    |
|------------|-----------------|--------------|-------|
| 12.301-LG1 | Stainless steel | 2.00 mm      | 0.016 |

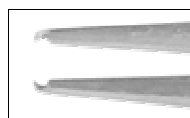
Tweezers with round tips for tubes and pins.



LP

| MSA        | Material        | Ø Tightening | Kg    |
|------------|-----------------|--------------|-------|
| 12.301-LP2 | Stainless steel | 0.80 mm      | 0.016 |
| 12.301-LP3 | Stainless steel | 0.90 mm      | 0.016 |
| 12.301-LP1 | Stainless steel | 1.60 mm      | 0.016 |

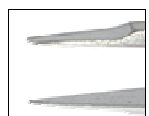
Tweezers with round tips for tubes and pins.



27

| MSA           | Material                          | Ø Tightening | Kg    |
|---------------|-----------------------------------|--------------|-------|
| 12.302-27/030 | Stainless steel 100% antimagnetic | 0.30 mm      | 0.016 |
| 12.302-27/040 | Stainless steel 100% antimagnetic | 0.40 mm      | 0.016 |
| 12.302-27/080 | Stainless steel 100% antimagnetic | 0.80 mm      | 0.016 |

Tweezers with round tips for pins.



2

| MSA         | Material        | Kg    |
|-------------|-----------------|-------|
| 12.301-33/2 | Stainless steel | 0.014 |

Tweezers for correcting darts.

## HOROtec® tweezers for curving hairsprings.



10B

| MSA        | Material     | Length | Kg    |
|------------|--------------|--------|-------|
| 12.300-10B | Carbon steel | 115 mm | 0.015 |

Tweezers for curving hairsprings.

## HOROTEC® TWEEZERS FOR WATCHMAKING

### 100% antimagnetic nickel HOROTEC® special tweezers with red vulcanized fibre tips.



| MSA    | Material                 | Length | Kg    |
|--------|--------------------------|--------|-------|
| 12.150 | 100% antimagnetic nickel | 125 mm | 0.020 |

Tweezers with red vulcanized fibre tips, extra-fine tips 0.50 mm.



| MSA    | Material                 | Length | Kg    |
|--------|--------------------------|--------|-------|
| 12.727 | 100% antimagnetic nickel | 125 mm | 0.020 |

Tweezers with red vulcanized fibre tips, fine tips.



| MSA    | Material                 | Length | Kg    |
|--------|--------------------------|--------|-------|
| 12.710 | 100% antimagnetic nickel | 125 mm | 0.020 |

Tweezers with red vulcanized fibre tips, medium tips.



| MSA    | Material                 | Length | Kg    |
|--------|--------------------------|--------|-------|
| 12.726 | 100% antimagnetic nickel | 125 mm | 0.020 |

Tweezers with red vulcanized fibre tips, large tips.



| MSA    | Material                 | Length | Kg    |
|--------|--------------------------|--------|-------|
| 12.729 | 100% antimagnetic nickel | 125 mm | 0.020 |

Tweezers with red vulcanized fibre and felt tips for oiling mainsprings, large tips.

### HOROTEC® tweezers with ceramic tips.



| MSA    | Material | Length | Kg    |
|--------|----------|--------|-------|
| 12.151 | 000      | 130 mm | 0.026 |

Tweezers with ceramic tips 1.30 x 0.50 mm.  
These tweezers are resistant to acids and high temperatures without transmitting heat.

**HOROTEC® aluminium tweezers with interchangeable hard tips made of black carbonic-fibre or white Delrin®. Used for handling delicate pieces without marking them. They are so light that they allow you to prolong the work without any tiredness.**

## ANTIMAGNETIC AND ULTRA LIGHT, 10 g !



| MSA    | Kg    |
|--------|-------|
| 12.728 | 0.001 |

Pair of clips for replacement tips. A patented clip system allows a fast and accurate change of the used tips.



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.711 | Aluminium | 123 mm | 0.010 |

Tweezers with large and square black carbon fibre hard tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.711-A | Pair of tips for MSA12.711 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.712 | Aluminium | 130 mm | 0.010 |

Tweezers with large and round black carbon fibre hard tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.712-A | Pair of tips for MSA12.712 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.713 | Aluminium | 130 mm | 0.010 |

Tweezers with fine black carbon fibre hard tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.713-A | Pair of tips for MSA12.713 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.714 | Aluminium | 130 mm | 0.010 |

Tweezers with very fine black carbon fibre hard tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.714-A | Pair of tips for MSA12.714 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.715 | Aluminium | 120 mm | 0.010 |

Tweezers with curved and fine black carbon fibre hard tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.715-A | Pair of tips for MSA12.715 | 0.002 |

## HOROTEC® ALUMINIUM TWEEZERS



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.750 | Aluminium | 120 mm | 0.090 |

Tweezers with black large and round serrated carbon fibre hard tips for battery change.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.750-A | Pair of tips for MSA12.750 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.721 | Aluminium | 123 mm | 0.010 |

Tweezers with large and square white Delrin® soft tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.721-A | Pair of tips for MSA12.721 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.722 | Aluminium | 130 mm | 0.010 |

Tweezers with large and round white Delrin® soft tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.722-A | Pair of tips for MSA12.722 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.723 | Aluminium | 130 mm | 0.010 |

Tweezers with fine white Delrin® soft tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.723-A | Pair of tips for MSA12.723 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.724 | Aluminium | 130 mm | 0.010 |

Tweezers with very fine white Delrin® soft tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.724-A | Pair of tips for MSA12.724 | 0.002 |



| MSA    | Material  | Length | Kg    |
|--------|-----------|--------|-------|
| 12.725 | Aluminium | 120 mm | 0.010 |

Tweezers with curved and fine white Delrin® soft tips.

### Spare part :

| MSA      | Item                       | Kg    |
|----------|----------------------------|-------|
| 12.725-A | Pair of tips for MSA12.725 | 0.002 |

Watch making HOROSWISS® tweezers are specially made in standard polish and at competitive prices.  
The tips are perfectly aligned with a neat finish.  
Steels and other alloys are carefully selected to ensure a very good Swiss Made quality.  
For daily jobs requiring precise and fine tweezers.



MSA12.811-x ..... Stainless steel  
MSA12.812-x ..... Antimagnetic steel 316L  
MSA12.813-x ..... Brass

**HoroSwiss**  
SWISS MADE



**00**

| MSA              | Material                | Length | Kg    |
|------------------|-------------------------|--------|-------|
| <b>12.811-00</b> | Stainless steel         | 120 mm | 0.022 |
| <b>12.812-00</b> | Antimagnetic steel 316L | 120 mm | 0.022 |

Thick tweezers with flat tips, Geneva shape.

**HoroSwiss**  
SWISS MADE



**0**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.811-0</b> | Stainless steel         | 120 mm | 0.015 |
| <b>12.812-0</b> | Antimagnetic steel 316L | 120 mm | 0.015 |

Fine tweezers, Geneva shape.

**HoroSwiss**  
SWISS MADE



**1**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.811-1</b> | Stainless steel         | 120 mm | 0.015 |
| <b>12.812-1</b> | Antimagnetic steel 316L | 120 mm | 0.015 |

Strong tweezers.

**HoroSwiss**  
SWISS MADE



**2**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.811-2</b> | Stainless steel         | 120 mm | 0.016 |
| <b>12.812-2</b> | Antimagnetic steel 316L | 120 mm | 0.014 |

Strong tweezers with fine and flat tips.

**HoroSwiss**  
SWISS MADE



**3**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.811-3</b> | Stainless steel         | 120 mm | 0.015 |
| <b>12.812-3</b> | Antimagnetic steel 316L | 120 mm | 0.015 |

Fine tweezers for hairsprings.



## HOROSWISS® TWEEZERS

**HoroSwiss**  
SWISS MADE



**3C**

| MSA              | Material                | Length | Kg    |
|------------------|-------------------------|--------|-------|
| <b>12.811-3C</b> | Stainless steel         | 110 mm | 0.013 |
| <b>12.812-3C</b> | Antimagnetic steel 316L | 110 mm | 0.013 |

Fine tweezers for hairsprings.

**HoroSwiss**  
SWISS MADE



**4**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.811-4</b> | Stainless steel         | 110 mm | 0.013 |
| <b>12.812-4</b> | Antimagnetic steel 316L | 110 mm | 0.013 |

Tweezers with long and fine tips for hairsprings.

**HoroSwiss**  
SWISS MADE



**5**

| MSA             | Material                | Length | Kg    |
|-----------------|-------------------------|--------|-------|
| <b>12.811-5</b> | Stainless steel         | 100 mm | 0.014 |
| <b>12.812-5</b> | Antimagnetic steel 316L | 110 mm | 0.014 |

Short and extra-fine tweezers for hairsprings.

**HoroSwiss**  
SWISS MADE



**AA**

| MSA              | Material                | Length | Kg    |
|------------------|-------------------------|--------|-------|
| <b>12.811-AA</b> | Stainless steel         | 125 mm | 0.017 |
| <b>12.812-AA</b> | Antimagnetic steel 316L | 125 mm | 0.017 |
| <b>12.813-AA</b> | Brass                   | 125 mm | 0.021 |

Strong and elegant tweezers for ordinary use.

**HoroSwiss**  
SWISS MADE



**B5**

| MSA              | Material                | Length | Kg    |
|------------------|-------------------------|--------|-------|
| <b>12.812-B5</b> | Antimagnetic steel 316L | 128 mm | 0.019 |

Strong tweezers with very hard tips.

**HoroSwiss**  
SWISS MADE



**MM**

| MSA              | Material | Length | Kg    |
|------------------|----------|--------|-------|
| <b>12.813-MM</b> | Brass    | 120 mm | 0.023 |

Tweezers for hairsprings.

PRECITEC® tweezers. For occasional work requiring tweezers at a very competitive price.



MSA12.901-x ..... Stainless steel  
MSA12.902-x ..... 100% antimagnetic steel  
MSA12.903-x ..... Brass

PRECITEC  
QUALITY

00

| MSA       | Material        | Length | Kg    |
|-----------|-----------------|--------|-------|
| 12.901-00 | Stainless steel | 115 mm | 0.021 |

Thick tweezers with flat tips, Geneva shape.

PRECITEC  
QUALITY

0

| MSA      | Material        | Length | Kg    |
|----------|-----------------|--------|-------|
| 12.901-0 | Stainless steel | 115 mm | 0.018 |

Fine tweezers, Geneva shape.

PRECITEC  
QUALITY

1

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-1 | Stainless steel         | 120 mm | 0.019 |
| 12.902-1 | 100% antimagnetic steel | 120 mm | 0.019 |

Strong tweezers.

PRECITEC  
QUALITY

2

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-2 | Stainless steel         | 120 mm | 0.020 |
| 12.902-2 | 100% antimagnetic steel | 120 mm | 0.020 |

Strong tweezers with fine and flat tips.

PRECITEC  
QUALITY

3

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-3 | Stainless steel         | 120 mm | 0.020 |
| 12.902-3 | 100% antimagnetic steel | 120 mm | 0.022 |

Fine tweezers for hairsprings.

PRECITEC  
QUALITY

3C

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.901-3C | Stainless steel         | 110 mm | 0.014 |
| 12.902-3C | 100% antimagnetic steel | 110 mm | 0.016 |

Fine tweezers for hairsprings.

PRECITEC  
QUALITY

4

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-4 | Stainless steel         | 110 mm | 0.018 |
| 12.902-4 | 100% antimagnetic steel | 110 mm | 0.020 |

Tweezers with long and fine tips for hairsprings.

PRECITEC  
QUALITY

5

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-5 | Stainless steel         | 110 mm | 0.016 |
| 12.902-5 | 100% antimagnetic steel | 110 mm | 0.020 |

Extra-fine tweezers for hairsprings.

## PRECITEC® TWEEZERS

PRECITEC  
QUALITY



6

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-6 | Stainless steel         | 115 mm | 0.023 |
| 12.902-6 | 100% antimagnetic steel | 115 mm | 0.022 |

Tweezers hook shape and fine tips.

PRECITEC  
QUALITY



7

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-7 | Stainless steel         | 120 mm | 0.020 |
| 12.902-7 | 100% antimagnetic steel | 120 mm | 0.022 |

Curved and extra-fine tweezers for hairsprings.

PRECITEC  
QUALITY



AA

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.901-AA | Stainless steel         | 125 mm | 0.022 |
| 12.902-AA | 100% antimagnetic steel | 125 mm | 0.024 |
| 12.903-AA | Brass                   | 125 mm | 0.022 |

Strong and elegant tweezers, for ordinary use.

PRECITEC  
QUALITY



F

| MSA      | Material                | Length | Kg    |
|----------|-------------------------|--------|-------|
| 12.901-F | Stainless steel         | 115 mm | 0.017 |
| 12.902-F | 100% antimagnetic steel | 115 mm | 0.019 |

Tweezers with flat tips for straightening hands.

PRECITEC  
QUALITY



MM

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.902-MM | 100% antimagnetic steel | 125 mm | 0.019 |
| 12.903-MM | Brass                   | 125 mm | 0.023 |

Tweezers for assembling.

PRECITEC  
QUALITY



SS

| MSA       | Material                | Length | Kg    |
|-----------|-------------------------|--------|-------|
| 12.901-SS | Stainless steel         | 135 mm | 0.019 |
| 12.902-SS | 100% antimagnetic steel | 135 mm | 0.019 |

Simple tweezers.

### Storage support.

HOROTEC  
SWISS



| MSA    | Size               | Kg    |
|--------|--------------------|-------|
| 12.398 | 145 x 150 x 120 mm | 0.278 |

Storage support in solid beech for 12 tweezers.  
Useful for storing the tweezers in the best conditions.



| MSA      | Model              | Length | Kg    |
|----------|--------------------|--------|-------|
| 12.651-A | 3 claws            | 125 mm | 0.016 |
| 12.651-C | 3 claws (economic) | 125 mm | 0.016 |
| 12.651-B | 4 claws            | 125 mm | 0.016 |

Nickel-plated tweezers for stones, with return spring.



| MSA    | Model | Length | Kg    |
|--------|-------|--------|-------|
| 12.662 | P35   | 120 mm | 0.005 |

SIPEL® tweezers in synthetic material, tips width 3.20 mm.



| MSA    | Material        | Length | Kg    |
|--------|-----------------|--------|-------|
| 12.910 | Stainless steel | 208 mm | 0.049 |

Stainless steel tweezers with sheathed tips for handling parts under steam jet of ELMASTEAM.



See chapter PERF.



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 12.649 | Ø 12.5 x 150 mm | 0.040 |

Kit Vacuum PEN-VAC Original ESD SAFE with 6 silicone probes + cups, high temperature resistant (230° C). Aluminium body pen with clip. Ideal for picking up flat and very fragile parts up to 200 grams (dials, main plate, etc.).

Contents :

| MSA          | Item                      | Kg    |
|--------------|---------------------------|-------|
| 12.649-A     | Pen-Vac body              | 0.030 |
| 12.649-B (1) | Bent probe, Ø 9.53 mm     | 0.001 |
| 12.649-C (2) | Straight probe, Ø 9.53 mm | 0.001 |
| 12.649-D (1) | Bent probe, Ø 6.35 mm     | 0.001 |
| 12.649-E (2) | Straight probe, Ø 6.35 mm | 0.001 |
| 12.649-F (1) | Bent probe, Ø 3.18 mm     | 0.001 |
| 12.649-G (2) | Straight probe, Ø 3.18 mm | 0.001 |
| 12.649-H (3) | Cup, Ø 9.53 mm            | 0.001 |
| 12.649-J (3) | Cup, Ø 6.35 mm            | 0.001 |
| 12.649-K (3) | Cup, Ø 3.18 mm            | 0.001 |