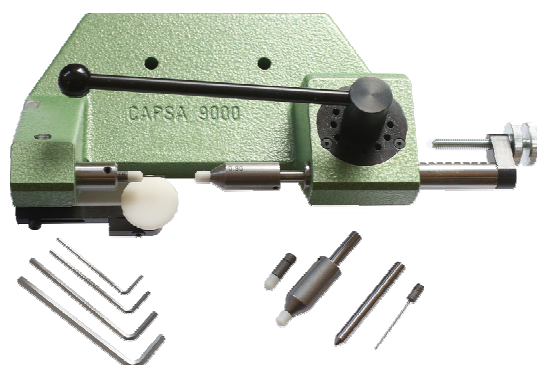




| MSA    | Size               | Kg    |
|--------|--------------------|-------|
| 10.550 | 290 x 140 x 120 mm | 5.750 |

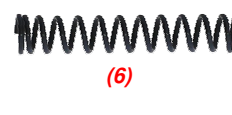
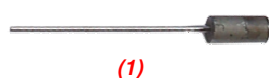
Device for fitting the bracelet pins.

Contents :

- 1x MSA10.550-TD090 : Complete chuck with pin Ø 0.90 mm and Delrin® end piece, right-hand side
- 1x MSA10.550-TD110 : Complete chuck with pin Ø 1.10 mm and Delrin® end piece, right-hand side
- 1x MSA10.550-TG080 : Complete chuck with pin Ø 0.80 mm and Delrin® end piece, left-hand side
- 1x MSA10.550-TG100 : Complete chuck with pin Ø 1.00 mm and Delrin® end piece, left-hand side
- 1x MSA10.550-PC : Hollowed point
- 1y set of Allen keys.

#### Spare parts and accessories :

| MSA           | Item                                             | MSA          | Item                                                                        |
|---------------|--------------------------------------------------|--------------|-----------------------------------------------------------------------------|
| 10.550-AD060  | (1) Pin for right-hand chuck, L35 x Ø 0.60 mm    | 10.550-PC    | (3) Hollowed point                                                          |
| 10.550-AD070  | Pin for right-hand chuck, L35 x Ø 0.70 mm        | 10.550-RR    | (4) Return spring                                                           |
| 10.550-AD080  | Pin for right-hand chuck, L35 x Ø 0.80 mm        | 10.550-RTD   | (5) Spring for chuck left side                                              |
| 10.550-AD090  | Pin for right-hand chuck, L35 x Ø 0.90 mm        | 10.550-RTG   | (6) Spring for chuck right side                                             |
| 10.550-AD100  | Pin for right-hand chuck, L35 x Ø 1.00 mm        | 10.550-TD070 | Complete chuck with pin Ø 0.70 mm and Delrin® end piece right-hand side     |
| 10.550-AD110  | Pin for right-hand chuck, L35 x Ø 1.10 mm        | 10.550-TD080 | Complete chuck with pin Ø 0.80 mm and Delrin® end piece right-hand side     |
| 10.550-AD120  | Pin for right-hand chuck, L35 x Ø 1.20 mm        | 10.550-TD090 | Complete chuck with pin Ø 0.90 mm and Delrin® end piece right-hand side     |
| 10.550-AD130  | Pin for right-hand chuck, L35 x Ø 1.30 mm        | 10.550-TD100 | (7) Complete chuck with pin Ø 1.00 mm and Delrin® end piece right-hand side |
| 10.550-AD140  | Pin for right-hand chuck, L35 x Ø 1.40 mm        | 10.550-TD110 | Complete chuck with pin Ø 1.10 mm and Delrin® end piece right-hand side     |
| 10.550-AG060  | Pin for left-hand chuck, L40 x Ø 0.60 mm         | 10.550-TD120 | Complete chuck with pin Ø 1.20 mm and Delrin® end piece right-hand side     |
| 10.550-AG070  | Pin for left-hand chuck, L40 x Ø 0.70 mm         | 10.550-TD140 | Complete chuck with pin Ø 1.40 mm and Delrin® end piece right-hand side     |
| 10.550-AG080  | Pin for left-hand chuck, L40 x Ø 0.80 mm         | 10.550-TG060 | Complete chuck with pin Ø 0.60 mm and Delrin® end piece left-hand side      |
| 10.550-AG090  | Pin for left-hand chuck, L40 x Ø 0.90 mm         | 10.550-TG070 | Complete chuck with pin Ø 0.70 mm and Delrin® end piece left-hand side      |
| 10.550-AG100  | Pin for left-hand chuck, L40 x Ø 1.00 mm         | 10.550-TG080 | Complete chuck with pin Ø 0.80 mm and Delrin® end piece left-hand side      |
| 10.550-AG110  | Pin for left-hand chuck, L40 x Ø 1.10 mm         | 10.550-TG090 | (8) Complete chuck with pin Ø 0.90 mm and Delrin® end piece left-hand side  |
| 10.550-AG120  | Pin for left-hand chuck, L40 x Ø 1.20 mm         | 10.550-TG100 | Complete chuck with pin Ø 1.00 mm and Delrin® end piece left-hand side      |
| 10.550-AG130  | Pin for left-hand chuck, L40 x Ø 1.30 mm         | 10.550-TG110 | Complete chuck with pin Ø 1.10 mm and Delrin® end piece left-hand side      |
| 10.550-AG140  | Pin for left-hand chuck, L40 x Ø 1.40 mm         | 10.550-TG120 | Complete chuck with pin Ø 1.20 mm and Delrin® end piece left-hand side      |
| 10.550-EDD050 | (2) Delrin® end piece right-hand, hole Ø 0.50 mm | 10.550-TG130 | Complete chuck with pin Ø 1.30 mm and Delrin® end piece left-hand side      |
| 10.550-EDD060 | Delrin® end piece right-hand, hole Ø 0.60 mm     |              |                                                                             |
| 10.550-EDD070 | Delrin® end piece right-hand, hole Ø 0.70 mm     |              |                                                                             |
| 10.550-EDD080 | Delrin® end piece right-hand, hole Ø 0.80 mm     |              |                                                                             |
| 10.550-EDD090 | Delrin® end piece right-hand, hole Ø 0.90 mm     |              |                                                                             |
| 10.550-EDD100 | Delrin® end piece right-hand, hole Ø 1.00 mm     |              |                                                                             |
| 10.550-EDD110 | Delrin® end piece right-hand, hole Ø 1.10 mm     |              |                                                                             |
| 10.550-EDD120 | Delrin® end piece right-hand, hole Ø 1.20 mm     |              |                                                                             |
| 10.550-EDD130 | Delrin® end piece right-hand, hole Ø 1.30 mm     |              |                                                                             |
| 10.550-EDD140 | Delrin® end piece right-hand, hole Ø 1.40 mm     |              |                                                                             |
| 10.550-EDG050 | Delrin® end piece left-hand, hole Ø 0.50 mm      |              |                                                                             |
| 10.550-EDG060 | Delrin® end piece left-hand, hole Ø 0.60 mm      |              |                                                                             |
| 10.550-EDG070 | Delrin® end piece left-hand, hole Ø 0.70 mm      |              |                                                                             |
| 10.550-EDG080 | Delrin® end piece left-hand, hole Ø 0.80 mm      |              |                                                                             |
| 10.550-EDG090 | Delrin® end piece left-hand, hole Ø 0.90 mm      |              |                                                                             |
| 10.550-EDG100 | Delrin® end piece left-hand, hole Ø 1.00 mm      |              |                                                                             |
| 10.550-EDG110 | Delrin® end piece left-hand, hole Ø 1.10 mm      |              |                                                                             |
| 10.550-EDG120 | Delrin® end piece left-hand, hole Ø 1.20 mm      |              |                                                                             |
| 10.550-EDG130 | Delrin® end piece left-hand, hole Ø 1.30 mm      |              |                                                                             |
| 10.550-EDG140 | Delrin® end piece left-hand, hole Ø 1.40 mm      |              |                                                                             |



BRACELET TOOLS



| MSA        | Ø       | Kg    |
|------------|---------|-------|
| 10.502-080 | 0.80 mm | 0.004 |
| 10.502-100 | 1.00 mm | 0.004 |
| 10.502-120 | 1.20 mm | 0.004 |
| 10.502-140 | 1.40 mm | 0.004 |
| 10.502-160 | 1.60 mm | 0.004 |
| 10.502-250 | 2.50 mm | 0.006 |

Blade for press MSA10.500 (shank Ø 2 mm).

| MSA      | Quantity    | Kg    |
|----------|-------------|-------|
| 10.502-A | 2x 6 blades | 0.006 |

Assortment of 12 blades for press MSA10.500.



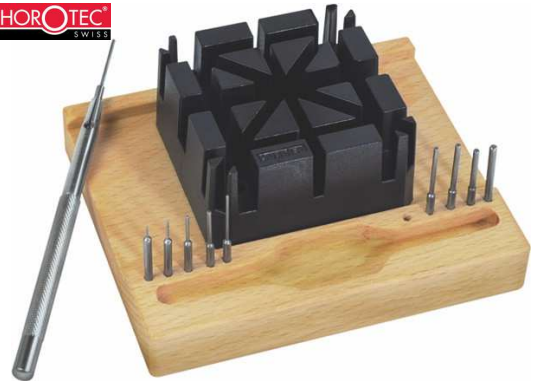
| MSA        | Ø       | Kg    |
|------------|---------|-------|
| 10.503-040 | 0.40 mm | 0.005 |
| 10.503-060 | 0.60 mm | 0.005 |
| 10.503-070 | 0.70 mm | 0.005 |
| 10.503-080 | 0.80 mm | 0.005 |
| 10.503-090 | 0.90 mm | 0.005 |
| 10.503-100 | 1.00 mm | 0.005 |
| 10.503-110 | 1.10 mm | 0.005 |
| 10.503-120 | 1.20 mm | 0.005 |
| 10.503-140 | 1.40 mm | 0.005 |
| 10.503-150 | 1.50 mm | 0.005 |
| 10.503-200 | 2.00 mm | 0.005 |

Pin punches for presses MSA10.499 et MSA10.500 + tools MSA10.510 and MSA10.511 (shank Ø 2 mm).

| MSA      | Quantity       | Kg    |
|----------|----------------|-------|
| 10.503-A | 11 pun punches | 0.060 |
| 10.503-B | 10 pun punches | 0.050 |
| 10.503-C | 6 pun punches  | 0.040 |

Assortment of pin punches for presses MSA10.499 et MSA10.500 + tools MSA10.510 and MSA10.511 (shank Ø 2 mm).

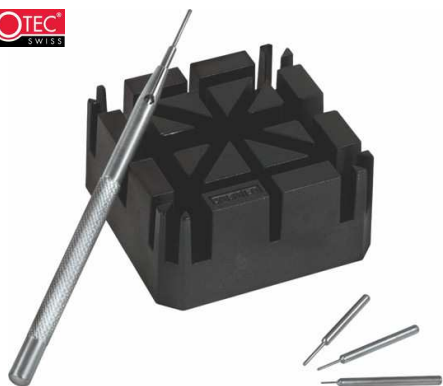
- MSA10.503-A :
- MSA10.503-B :
- MSA10.503-C :
- MSA10.503-040
- MSA10.503-060
- MSA10.503-070
- MSA10.503-080
- MSA10.503-090
- MSA10.503-100
- MSA10.503-110
- MSA10.503-120
- MSA10.503-140
- MSA10.503-150
- MSA10.503-200
- MSA10.503-040
- MSA10.503-060
- MSA10.503-070
- MSA10.503-080
- MSA10.503-090
- MSA10.503-100
- MSA10.503-120
- MSA10.503-140
- MSA10.503-150
- MSA10.503-200
- MSA10.503-040
- MSA10.503-060
- MSA10.503-080
- MSA10.503-100
- MSA10.503-150
- MSA10.503-200



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.510 | 95 x 80 x 36 mm | 0.295 |

Pin punch tool with 1 universal bracelet holder on a wooden base.

- Contents :
- 1 pin punch tool MSA10.510-A.
  - 1 bracelet holder MSA10.501.
  - 10 pin punches MSA10.503-xxx : Ø 0.40, 0.60, 0.70, 0.80, 1.00, 1.10, 1.20, 1.40, 1.50 and 2.00 mm
  - 1 wooden base MSA10.510-B.



| MSA    | Kg    |
|--------|-------|
| 10.511 | 0.040 |

Pin punch tool with 1 universal bracelet holder.

Contents :

- 1 pin punch tool MSA10.510-A
- 1 bracelet holder MSA10.501
- 4 pin punches MSA10.503-xxx : Ø 0.40, 0.60, 0.80 and 1.00 mm.



| MSA      | Length | Ø reaming | Kg    |
|----------|--------|-----------|-------|
| 10.510-A | 80 mm  | 2.00 mm   | 0.029 |

Metal knurled pin punch tool.

Accessory for MSA10.510 and MSA10.511.



| MSA    | Packaging size  | Kg    |
|--------|-----------------|-------|
| 10.533 | 85 x 55 x 15 mm | 0.040 |

Pin punch tool with anodised brass handle and stainless steel anvil.

Contents :

- 1 handle MSA10.527 compatible with all pin punches MSA10.503-x
- 11 pin punches MSA10.503-x : Ø 0.40, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.40, 1.50 and 2.00 mm.

#### Spare parts :

| MSA        | Item                           | Kg    |
|------------|--------------------------------|-------|
| 10.503-040 | Pin punch Ø 0.40 mm            | 0.005 |
| 10.503-060 | Pin punch Ø 0.60 mm            | 0.005 |
| 10.503-070 | Pin punch Ø 0.70 mm            | 0.005 |
| 10.503-080 | Pin punch Ø 0.80 mm            | 0.005 |
| 10.503-090 | Pin punch Ø 0.90 mm            | 0.005 |
| 10.503-100 | Pin punch Ø 1.00 mm            | 0.005 |
| 10.503-110 | Pin punch Ø 1.10 mm            | 0.005 |
| 10.503-120 | Pin punch Ø 1.20 mm            | 0.005 |
| 10.503-140 | Pin punch Ø 1.40 mm            | 0.005 |
| 10.503-150 | Pin punch Ø 1.50 mm            | 0.005 |
| 10.503-200 | Pin punch Ø 2.00 mm            | 0.005 |
| 10.527     | (1) Handle, Ø 6 x length 54 mm | 0.011 |



(1)



| MSA    | Packaging size  | Kg    |
|--------|-----------------|-------|
| 10.534 | 85 x 55 x 15 mm | 0.031 |

Pin punch tool with anodised brass handle and stainless steel anvil.

Contents :

- 1 handle MSA10.527 compatible with all pin punches MSA10.503-x
- 3 pin punches MSA10.503-x : Ø 0.70, 0.80 and 1.00.

Spare parts :

| MSA        | Item                           | Kg    |
|------------|--------------------------------|-------|
| 10.503-070 | Pin punch Ø 0.70 mm            | 0.005 |
| 10.503-080 | Pin punch Ø 0.80 mm            | 0.005 |
| 10.503-100 | Pin punch Ø 1.00 mm            | 0.005 |
| 10.527     | (1) Handle, Ø 6 x length 54 mm | 0.011 |



| MSA    | Packaging size  | Kg    |
|--------|-----------------|-------|
| 10.528 | 85 x 55 x 15 mm | 0.037 |

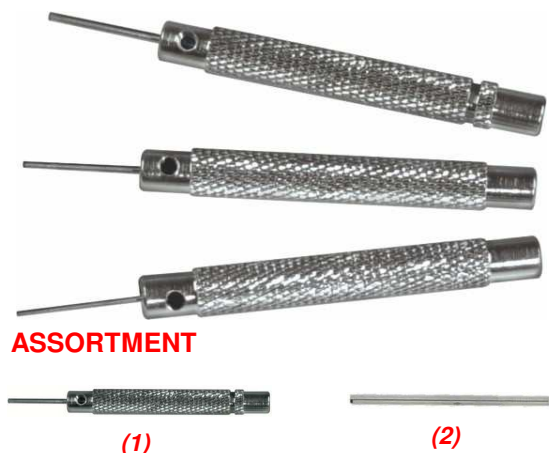
Assortment of pin punch tools for removing the bracelet pins.

Contents :

- 1 pin punch tool MSA10.528-070 with nickel plated brass handle Ø 5 mm, Ø 0.70 mm
- 1 pin punch tool MSA10.528-080 with nickel plated brass handle Ø 5 mm, Ø 0.80 mm
- 1 pin punch tool MSA10.528-100 with nickel plated brass handle Ø 5 mm, Ø 1.00 mm.

Spare parts :

| MSA        | Item                                                  | Kg    |
|------------|-------------------------------------------------------|-------|
| 10.528-070 | Pin punch tool with handle Ø 5 mm, Ø 0.70 mm          | 0.006 |
| 10.528-080 | Pin punch tool with handle Ø 5 mm, Ø 0.80 mm          | 0.006 |
| 10.528-100 | (1) Pin punch tool with handle Ø 5 mm, Ø 1.00 mm      | 0.006 |
| 10.529-070 | Pin punch Ø 0.70 mm, total/usable length 22/15 mm     | 0.001 |
| 10.529-080 | Pin punch Ø 0.80 mm, total/usable length 22/15 mm     | 0.001 |
| 10.529-100 | (2) Pin punch Ø 1.00 mm, total/usable length 22/15 mm | 0.001 |
| 10.529-V   | (3) Screw for pin punch tools                         | 0.001 |



| MSA    | Kg    |
|--------|-------|
| 10.508 | 0.029 |

Assortment of 3 pin punches tools (Ø 0.60, 0.80 and 1.00 mm) for removing the bracelet pins.

Spare parts :

| MSA        | Item                                                     | Kg    |
|------------|----------------------------------------------------------|-------|
| 10.508-060 | (1) Tool with handle Ø 5.20, length 52.60, pin Ø 0.60 mm | 0.006 |
| 10.508-080 | Tool with handle Ø 5.20, length 52.60, pin Ø 0.80 mm     | 0.006 |
| 10.508-100 | Tool with handle Ø 5.20, length 52.60, pin Ø 1.00 mm     | 0.006 |
| 10.509-060 | (2) Pin punches Ø 0.60 mm                                | 0.001 |
| 10.509-080 | Pin punches Ø 0.80 mm                                    | 0.001 |
| 10.509-100 | Pin punches Ø 1.00 mm                                    | 0.001 |



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.501 | 52 x 52 x 25 mm | 0.022 |

Universal black plastic bracelet holder, with 9 holes and 8 slots of 2.8 to 6.3 mm.

Accessory for MSA10.499, 10.500, 10.510 and 10.511.



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.507 | 55 x 55 x 40 mm | 0.030 |

Black plastic bracelet holder, 22 slots of 3.5 to 9.0 mm.



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.519 | 50 x 45 x 40 mm | 0.105 |

Bracelet holder vice with screw.

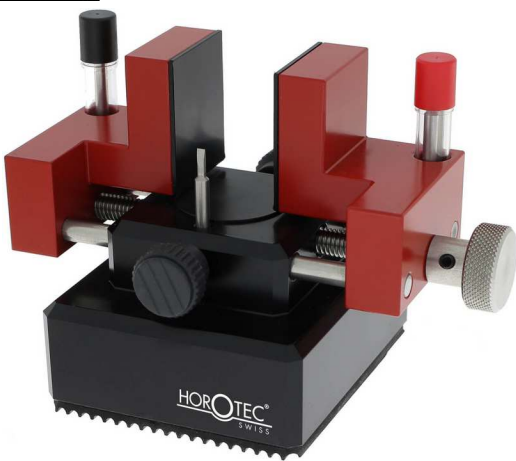
- Maximum bracelet thickness : 10 mm
- Useful dimensions : length 49 mm and height 24 mm
- Suitable for presses MSA10.499 and 10.500 illustrated on page 10-2.



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.513 | 55 x 35 x 22 mm | 0.050 |

Bracelet holder vice with screw.

- Maximum bracelet thickness : 9.50 mm
- Useful dimensions : length 35 mm and height 12 mm
- Suitable for presses MSA10.499 and 10.500 illustrated on page 10-2.



| MSA    | Size             | Kg    |
|--------|------------------|-------|
| 10.010 | 110 x 70 x 75 mm | 1.100 |

Multifunctional 3rd hand vice, case holder and bracelet holder.

Composition :

- 1 base with table equipped with a POM protection Ø 25 mm
- 1 removable and sliding vice for tightening cases and bracelets ; maximum opening 30 mm
- 4 stainless steel blades (hardening 57 HRC) Ø 1.00, 1.40, 1.80 and 3.00 mm. Shank Ø 3 mm.

Spare parts :

| MSA        | Item              | Kg    |
|------------|-------------------|-------|
| 10.010-100 | Blade Ø 1.00 mm   | 0.005 |
| 10.010-140 | Blade Ø 1.40 mm   | 0.005 |
| 10.010-180 | Blade Ø 1.80 mm   | 0.005 |
| 10.010-300 | Blade Ø 3.00 mm   | 0.005 |
| 10.010-A   | Maintaining screw | 0.010 |
| 10.010-B   | Blade spring      | 0.001 |



| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.520 | 25 x 25 x 27 mm | 0.037 |

Small tool for bracelet screws.

- 3 blades Ø 1.00, 1.40 and 3.00 mm
- Metal anti-skid base.



| MSA    | Size             | Kg    |
|--------|------------------|-------|
| 10.007 | 105 x 60 x 60 mm | 0.355 |

Tool to keep plastic band watches opened.

Give free hands to users for easy works in the watch.

Non-skid aluminium base and curved Delrin® die Ø 39 mm (also for domed crystals).



| MSA    | Size             | Kg    |
|--------|------------------|-------|
| 10.531 | 110 x 50 x 25 mm | 0.066 |

Tool for removing bracelet pins.

Spare part :

| MSA      | Item                                    | Kg    |
|----------|-----------------------------------------|-------|
| 10.531-A | (1) Pin punch Ø 0.80 mm, shank Ø 1.90mm | 0.003 |





| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.005 | 60 x 20 x 25 mm | 0.015 |

Small black plastic tool for removing the bracelet pins.  
Delivered with 2 pin punches Ø 0.80 mm.

**Spare part :**

| MSA      | Item                                               | Kg    |
|----------|----------------------------------------------------|-------|
| 10.005-A | (1) Pin punch Ø 0.80, body Ø 2.50, length 31.40 mm | 0.001 |

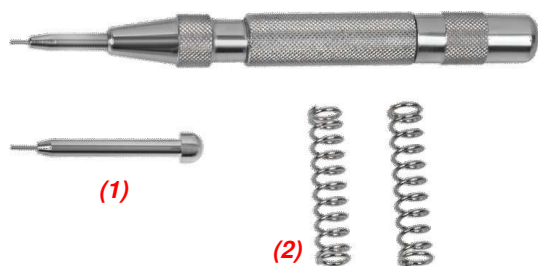


| MSA    | Size            | Kg    |
|--------|-----------------|-------|
| 10.532 | 55 x 22 x 25 mm | 0.016 |

Small black plastic tool for removing the bracelet pins.  
Delivered with 3 pin punches Ø 0.80 mm (2x length 17 mm and 1x length 20 mm).

**Spare parts :**

| MSA      | Item                                              | Kg    |
|----------|---------------------------------------------------|-------|
| 10.532-A | (1) Pin punches Ø 0.80, body Ø 2.50, length 17 mm | 0.004 |
| 10.532-B | (2) Pin punches Ø 0.80, body Ø 2.50, length 20 mm | 0.004 |



| MSA    | Kg    |
|--------|-------|
| 10.008 | 0.072 |

Shock tool for removing the bracelet pins.  
Delivered in a plastic pouch with :  
- 1 pin MSA10.008-A  
- 2 springs MSA10.008-B.

**Spare parts :**

| MSA      | Item                         | Kg    |
|----------|------------------------------|-------|
| 10.008-A | (1) Pin Ø 0.80 mm            | 0.004 |
| 10.008-B | (2) Spring Ø 8.00 x 38.00 mm | 0.004 |



| MSA    | Length | Kg    |
|--------|--------|-------|
| 10.003 | 145 mm | 0.089 |

Combination pliers for fitting and removing the bracelet pins.  
 Delivered with 1 pin punch holder + 1 mounted pin punch and 5 pin punches Ø 0.80 mm.

Spare parts :

| MSA      | Item                                                           | Kg    |
|----------|----------------------------------------------------------------|-------|
| 10.003-A | (1) Pin punch holder + 1 pin punch, length 36 mm, shank Ø 4 mm | 0.001 |
| 10.003-B | (2) Pin punch Ø 0.80 mm, length 13.50 mm, shank Ø 1.50 mm      | 0.001 |



| MSA    | Length | Kg    |
|--------|--------|-------|
| 10.006 | 150 mm | 0.295 |

Combination pliers for fitting and removing the bracelet pins.  
 Delivered with 5 pin punches Ø 0.60, 0.80, 1.00, 1.20 and 1.50 mm.

Spare parts :

| MSA        | Item                                    | Kg    |
|------------|-----------------------------------------|-------|
| 10.004-060 | Pin punches Ø 1.50, length 49.00 mm     | 0.001 |
| 10.004-080 | Pin punches Ø 1.20, length 48.50 mm     | 0.001 |
| 10.004-100 | (1) Pin punches Ø 1.00, length 47.50 mm | 0.001 |
| 10.004-120 | Pin punches Ø 0.80, length 47.00 mm     | 0.001 |
| 10.004-150 | Pin punches Ø 0.60, length 47.00 mm     | 0.001 |

