

MSA	Size	Kg
10.550	290 x 140 x 120 mm	5.750

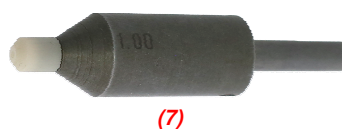
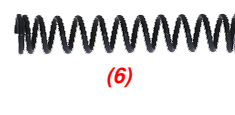
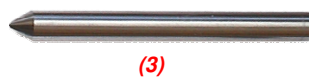
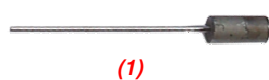
Device for fitting the bracelet pins.

**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 pin punches	0.060
10.503-B	10 pin punches	0.050
10.503-C	6 pin 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	MSA10.503-040	MSA10.503-040
MSA10.503-060	MSA10.503-060	MSA10.503-060
MSA10.503-070	MSA10.503-070	MSA10.503-080
MSA10.503-080	MSA10.503-080	MSA10.503-100
MSA10.503-090	MSA10.503-090	MSA10.503-150
MSA10.503-100	MSA10.503-100	MSA10.503-200
MSA10.503-110	MSA10.503-120	
MSA10.503-120	MSA10.503-140	
MSA10.503-140	MSA10.503-150	
MSA10.503-150	MSA10.503-200	
MSA10.503-200		

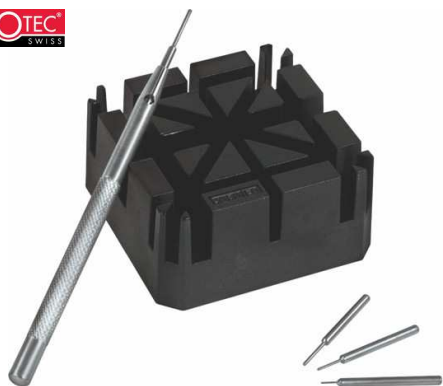


MSA	Size	Kg
10.510	95 x 80 x 36 mm	0.295

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

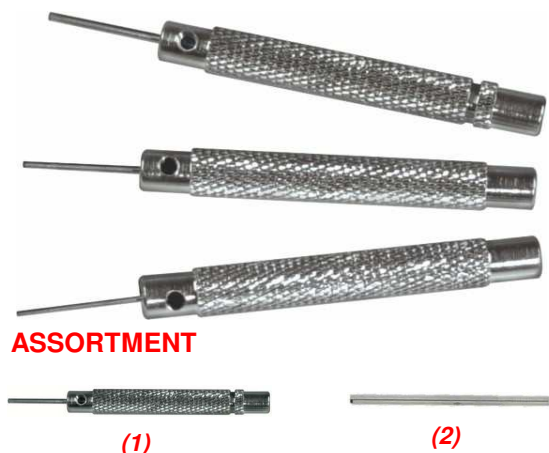
Assortment of pin punch tools for removing the bracelet pins.

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



ASSORTMENT

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.



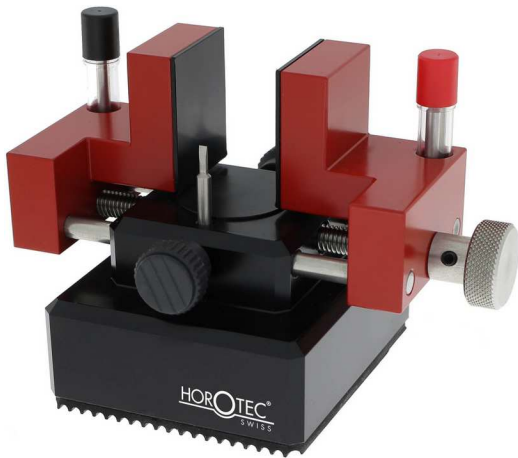
MSA	Size	Kg
10.513	55 x 35 x 22 mm	0.050

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.

## BRACELET TOOLS

**HOROTEC**  
SWISS



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

**HOROTEC**  
SWISS



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.

**HOROTEC**  
SWISS



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  $\varnothing$  0.80 mm.

**Spare part :**

MSA	Item	Kg
10.005-A	(1) Pin punch $\varnothing$ 0.80, body $\varnothing$ 2.50, length 31.40 mm	0.001

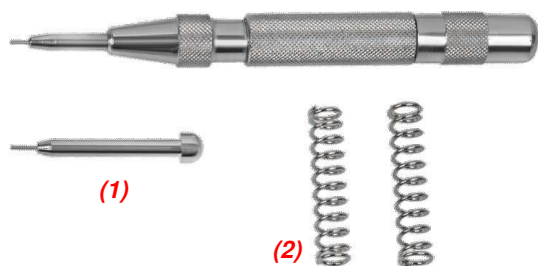


MSA	Size	Kg
10.532	55 x 22 x 25 mm	0.016

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

**Spare parts :**

MSA	Item	Kg
10.532-A	(1) Pin punches $\varnothing$ 0.80, body $\varnothing$ 2.50, length 17 mm	0.004
10.532-B	(2) Pin punches $\varnothing$ 0.80, body $\varnothing$ 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 $\varnothing$ 0.80 mm	0.004
10.008-B	(2) Spring $\varnothing$ 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

