

Taal: Engels



Handleiding

GYS SpeedLiner 3902

GY 035010

MSH equipment
Appelmarkt 7
1681 PE Zwaagdijk-Oost
Tel: 0228-561100
Fax: 0228-561112
Mail: info@msh-equipment.nl

Website: www.msh-equipment.nl

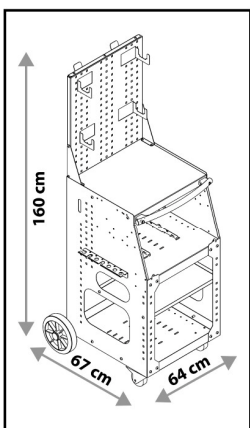
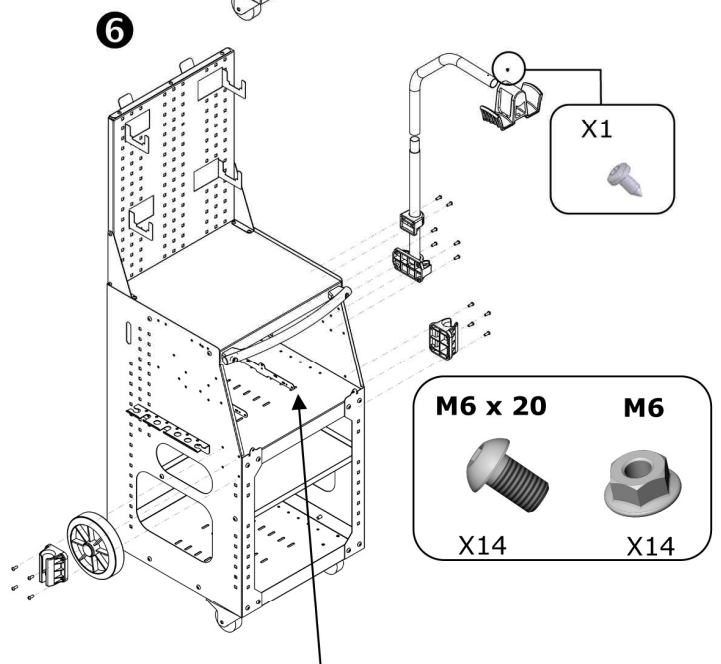
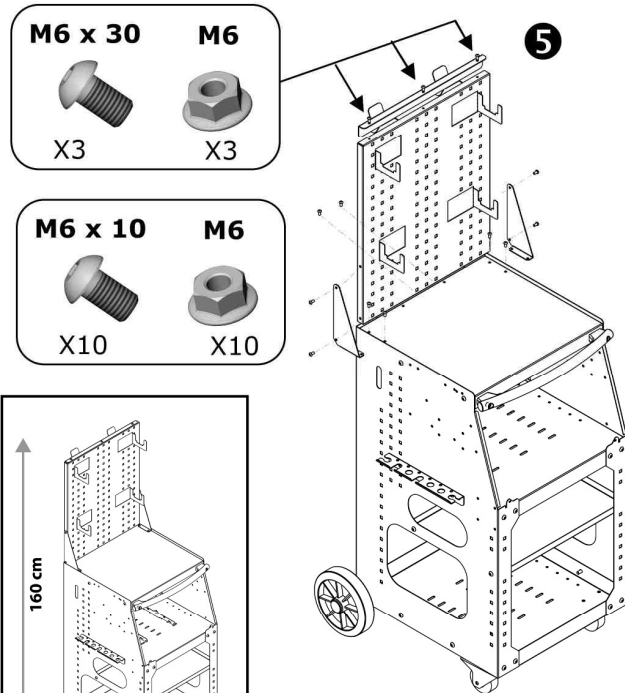
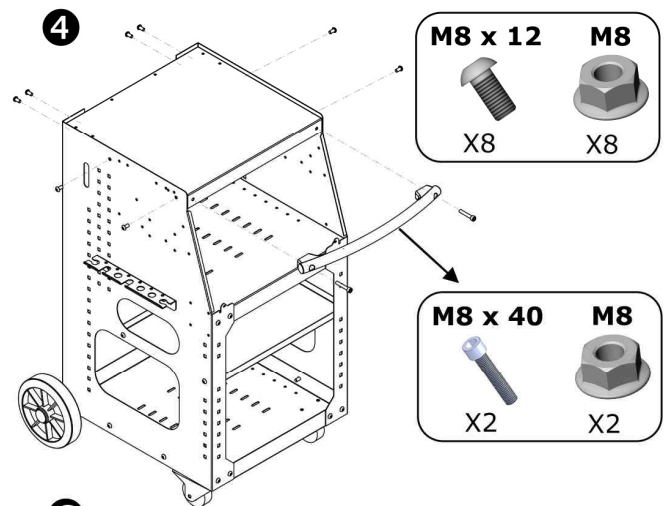
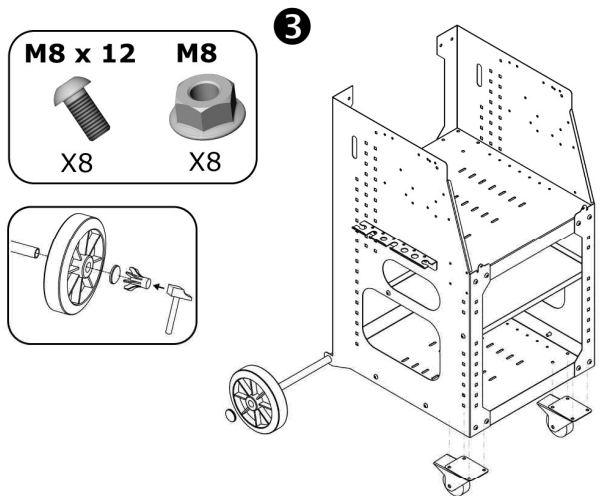
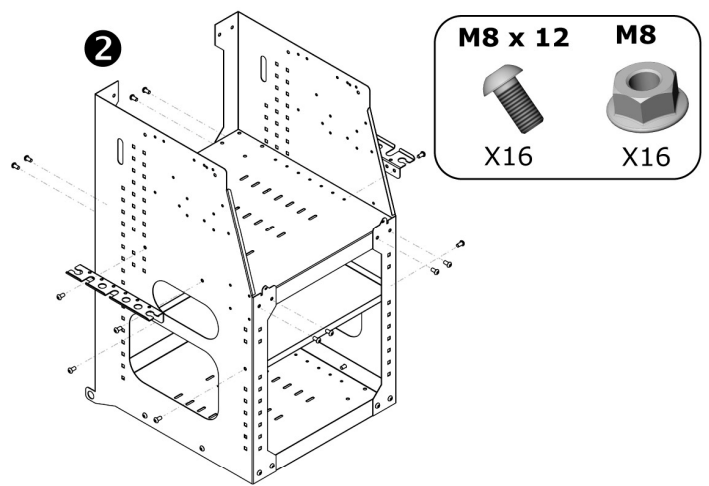
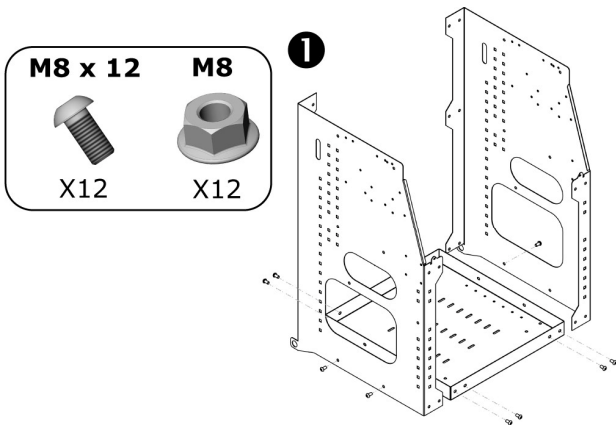


SPEEDLINER • SPEEDLINER 39.02 • SPEEDLINER 39.04 SPEEDLINER PRO 230 • SPEEDLINER PRO 400 SPEEDLINER COMBI 230 PRO

SUMMARY

| | |
|--|---|
| ASSEMBLY | 2 |
| COMPOSITION | 3 |
| STRAIGHTENING LEVER AND BARS | 3 |
| Choose your bar or your lever | 3 |
| Choose the right straightening process | 4 |
| Examples of application | 6 |
| MAGNETIC EARTH..... | 6 |
| MANUSPOT | 6 |
| Connections of the different tools..... | 6 |
| Universal dent pulling clamp..... | 7 |
| Pulling handles | 8 |
| Contact shrinking tool..... | 8 |
| Easy Gun | 8 |
| MINI PULLER | 8 |

ASSEMBLY



COMPOSITION



COMBI 230 PRO / 39.02 / 39.04 / PRO 230 / PRO 400

| | | |
|--------|---------------------------------|---|
| XXXXX | Generator | 1 |
| 051348 | Trolley SPOT 1600 | 1 |
| 050679 | Manuspot (with Easy gun) | 1 |
| 050686 | Straightening lever | 1 |
| 050693 | Straightening bar 80 cm | 1 |
| 050792 | 3 traction rods | 1 |
| 049758 | Hooks 4 claws | 1 |
| 049734 | Hooks 6 claws | 1 |
| 049666 | Steel magnetic mass | 1 |
| 051515 | Box of steel consumables | 1 |
| 052451 | Set of 2x 55mm extension joints | 1 |

+ COMBI 230 PRO ONLY

| | | |
|--------|--------------------------------|---|
| 052284 | Stand for dent puller | 1 |
| 050921 | Mini puller | 1 |
| 050945 | Alu hook 2 | 1 |
| 050051 | Inertia hammer for glue puller | 1 |
| 050938 | Alu hook 1 | 1 |
| 051683 | Alu earth gun | 1 |

STRAIGHTENING LEVER AND BAR

CHOOSE YOUR BAR OR YOUR LEVER

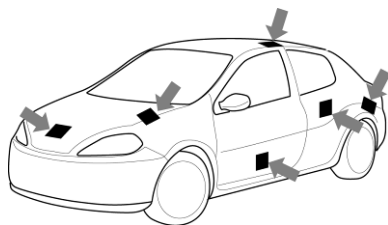
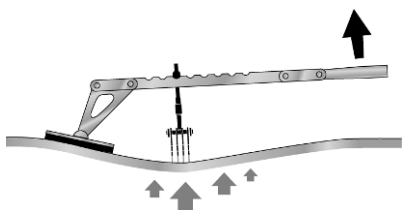


Straightening lever

ref.050686



For areas when the sheets are thin. Ex: door, fender...

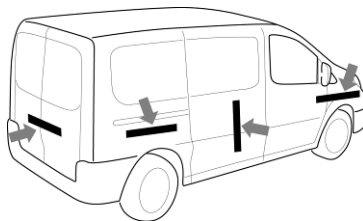
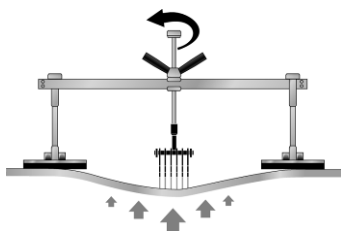


Straightening bar

ref.050693



To straighten or maintain a sheet under stress after using the pulling bar

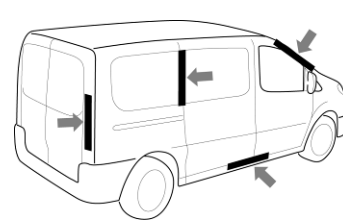
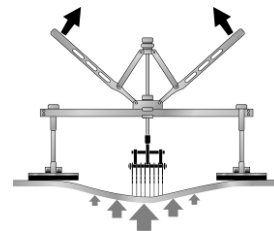


OPTION: Pulling bar

ref.050716

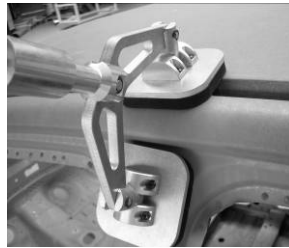


To straighten or maintain a sheet under stress after using the pulling bar



For angles and rounded corners (OPTION)

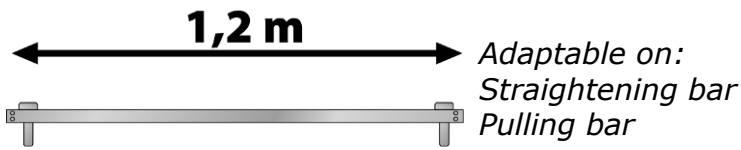
Change the original pads for the double ones (ref.050723)



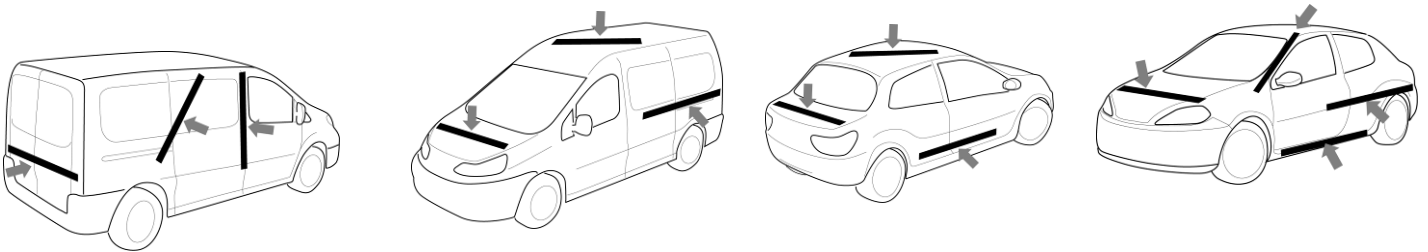
Adaptable on:
 - Straightening bar
 - Pulling bar

For wide areas (ex. utility vehicle side panel) (OPTION)

Replace the original traction bar (0,8m) by the 1,2 m bar (ref.050730)

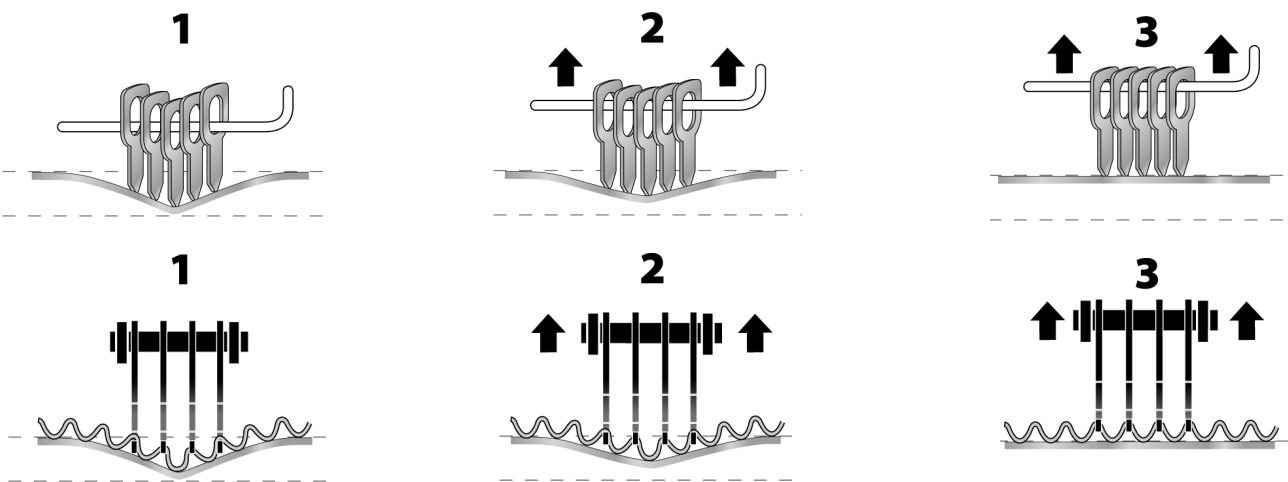


Exemple of application:





CHOOSE THE RIGHT STRAIGHTENING PROCESS

Principles



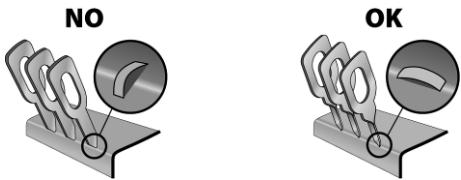


Comparison

Rings or wavy wire?

| |  Rings |  Wavy wire <i>x50 ref.049727</i> |
|------------------------|--|---|
| Use | To straighten all the bumps, middle to big bumps | To straighten light and middle bumps |
| Advantages | <ul style="list-style-type: none"> - Versatility - Pulling strength - Ideal for sills | <ul style="list-style-type: none"> - Fast set-up - Ideal for rounded areas (example : wheel arch ...) |
| Disadvantages | Long set-up | Standard space between welded points |
| To be used with | Traction rod + hooks (4 - 6 - 8 claws) | Hooks (4 - 6 - 8 claws) |
| Possible tools | <ul style="list-style-type: none"> - Lever - Straightening bar - Pulling bar | <ul style="list-style-type: none"> - Lever - Straightening bar - Pulling bar |

Straight or twisted rings?

| |  Straight rings <i>X100 ref.050648</i> |  Twisted rings <i>X50 ref.050631</i> |
|------------|---|---|
| Use | To straighten a flat or rounded surface | To pull in the plane of the edge  |

Set up:

Rings

To weld the rings, use the ring « accessory welder » of the Manuspot (page 6)



Advice

It is possible to weld the rings at a slight angle and to manually position them vertically afterwards.

When the straightening is finished, twisting the rings will enable to easily remove them.

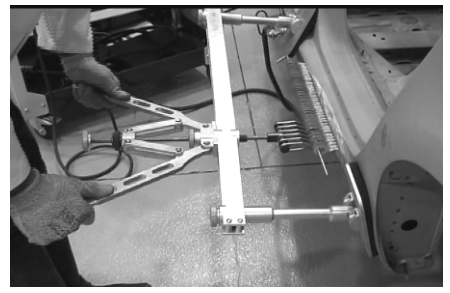
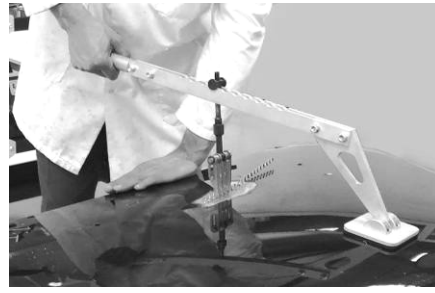
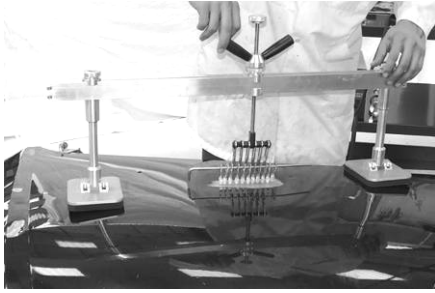
Wavy wire

To weld the wavy wire, use wavy wire « accessory welder » for Manuspot (page 6)

To unweld the wavy wire, use pliers to move the wire sideways until the weld breaks off.

Note: the rings or wavy wires can be reused, and should only be replaced if worn out.

APPLICATION EXAMPLES

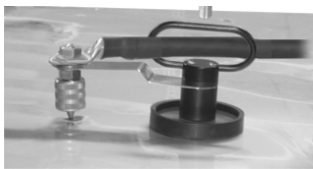


MAGNETIC EARTH

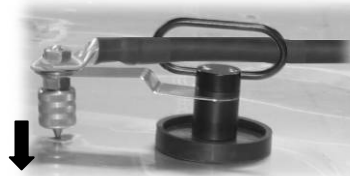
Principle and Application

This system « welded earth » system allows to fix an earth on a small stripped part (less than 2mm against 20mm with a standard earth).

Its magnets allows you to use it in every position (horizontal or vertical)



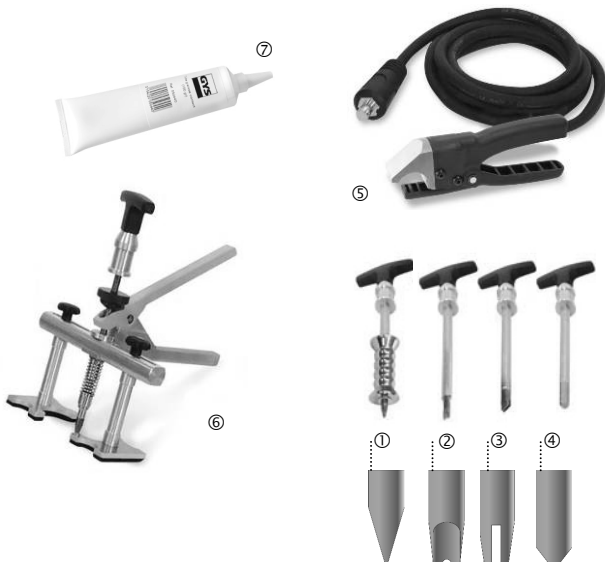
① Weld the earth thanks to contact shrinking tool (p8)



② Screw the earth to the metal sheet

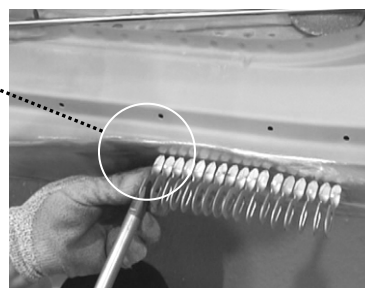
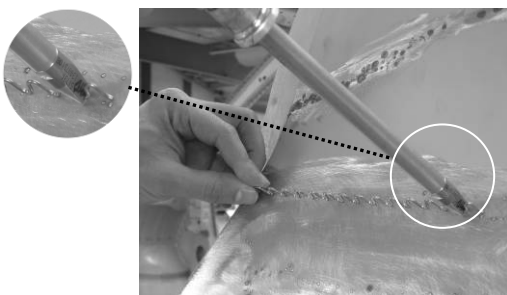


MANSPOT ref.050679



Manuspot: Complete concept including:

- 1 universal dent pulling clamp ⑥
- 1 pulling handle ①
- 2 « accessory welder » tools:
wavy ② + rings ③
- 1 contact shrinking tool ④
- contact clamp with 3m cable ⑤
- copper grease tube ⑦ ref.050440
- 1 Easy Gun



CONNECTION OF DIFERENT TOOLS

Connect the contact clamp as follows:



❶ Connect to the generator



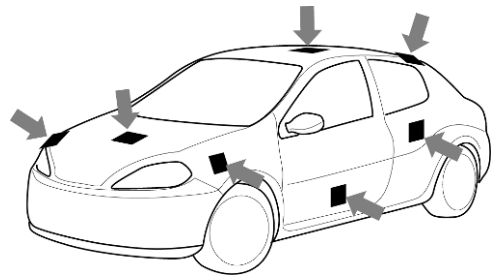
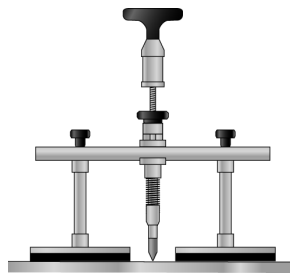
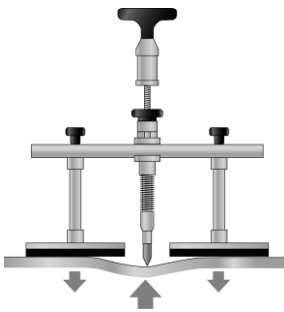
❷ Add copper grease on the inside of the clamp and on the axis of the tool.



❸ Fit the clamp on the tool

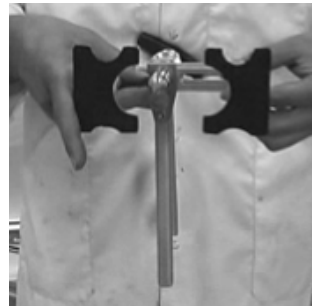
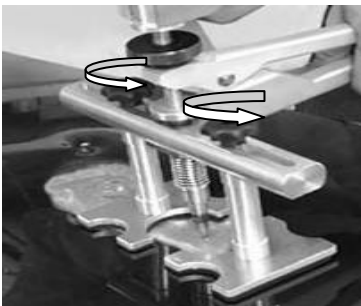
II- UNIVERSAL DENT PULLING CLAMP

Principle

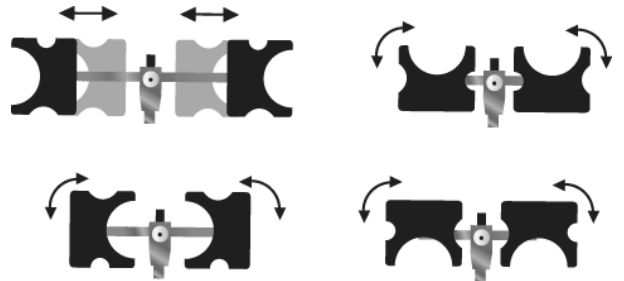


Adjustment and positioning of the pads

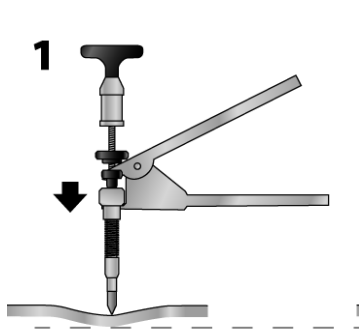
❶ Unscrew the nuts on both sides



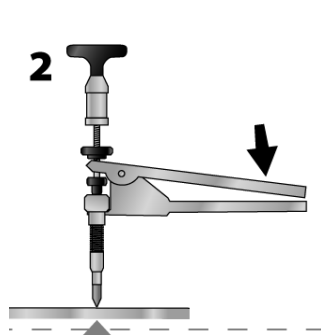
❷ Then choose the position of the pads depending on the area to work on



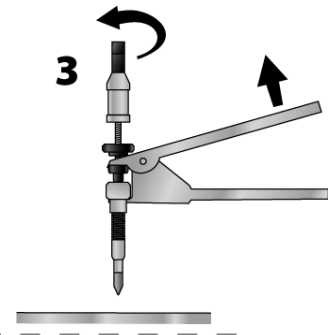
Use



❶ Weld the tip



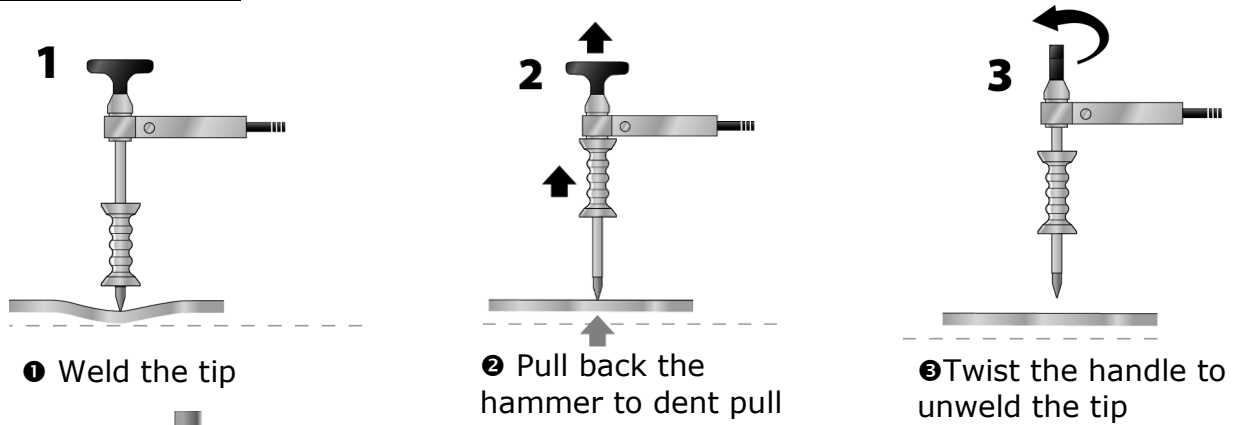
❷ Tighten the handle to dent pull



❸ Twist the handle to unwind the tip

Consumables:  3 electrodes for Manuspot handles ref.050822

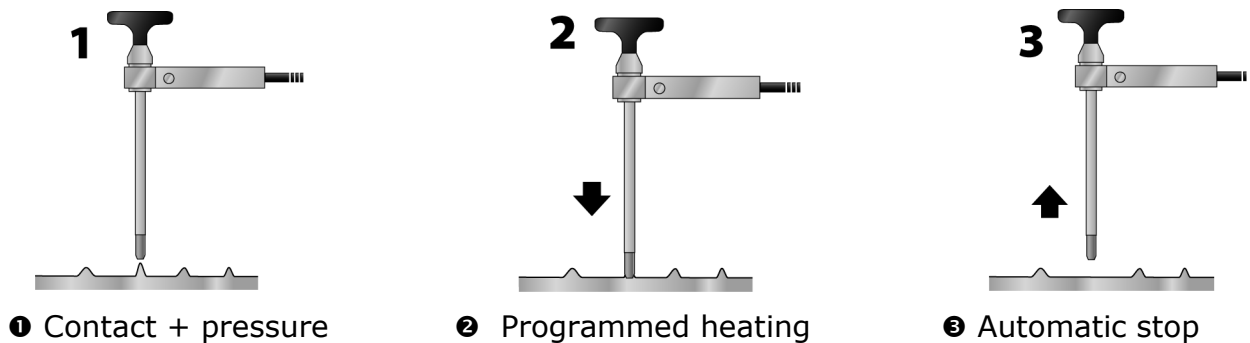
PULLING HANDLES



Consommable :  5 électrodes de tirage ref.050839

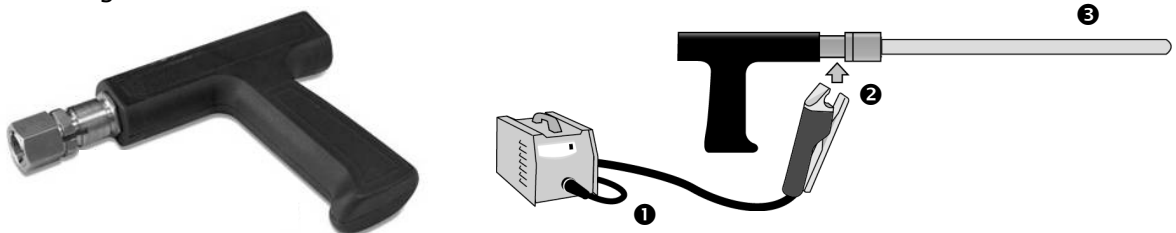
CONTACT SHRINKING TOOL

Essential tool for the finishing enables to eliminate the spikes created by the dent pulling operations.



EASY GUN

- 1 Connect the Manuliner contact clamp to the unit.
- 2 Install the tool at the end of the Easy gun then connect the Manuliner contact clamp to the Easy Gun.
- 3 Weld: The welding point is made automatically by a simple contact between the tool and the metal piece to straighten.



MINI PULLER ref 051003

(+alu hook 1 ref 050938 + alu hook 2 ref 050945)

- 1- Weld the studs to the aluminium sheet with the Combi 230 Pro.
- 2- Fix the hooks on the studs.
- 3- Pull on the hooks with the Mini Puller (diagram)

