

  
**CARPANO**  
EQUIPMENT

welding automation



| ENG

# WAVE

Radio-controlled self-aligning  
chariot provided with oscillator  
powered by rechargeable battery  
useful also for vertical welding

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# WAVE

## Self-aligning chariot provided with oscillator

- Wave is provided with four drive wheels and with a permanent magnet that guarantees their grip. Magnet allows also to work in vertical and frontal position.
- Because of its light weight (8 kg) and small dimensions it is very maneuverable and practical.
- Drive wheels can work either on flat surfaces or curves with minimum diameter 800mm.
- Two driving idle rolls let the chariot move along a profile.
- The use of rechargeable battery allows to work with safeness and without cable connections.
- Oscillator allows to choose five different work mode.
- An optional wireless control is available on request.
- When executing vertical or frontal welding we recommend to secure the machine to a security cable.
  
- The following accessories are available on request:
  - ON/OFF magnet as end-block for the limit-switches
  - Additional batteries
  - Support for torch cable
  - Guides for butt joints or for circular joints
  
- Its low cost and high practicality determine a quick return on investment.

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**Chariot with oscillator:**

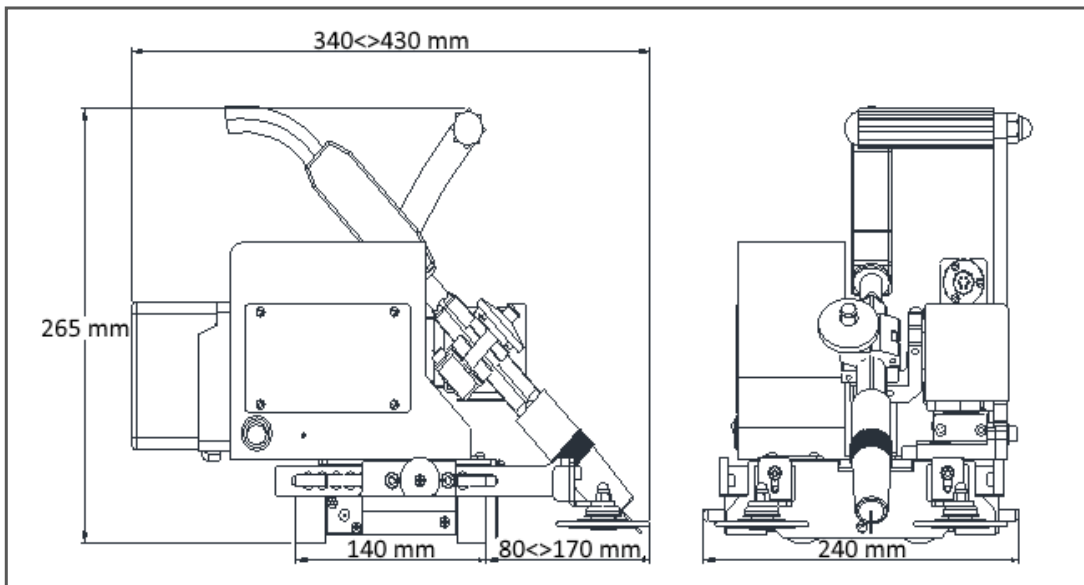
<b>Weight:</b>	8kg , battery and oscillator included
<b>Chariot speed:</b>	30<>880mm/min
<b>Oscillation speed:</b>	0<>6270mm/min (torch at 150mm from the workpiece)
<b>Oscillation amplitude:</b>	0<>26mm (torch at 150mm from the workpiece)
<b>Oscillation pauses:</b>	0<>9.9sec.
<b>Torch holder:</b>	for diameters 15<>19mm
<b>Max wheels operating temperature:</b>	200°C
<b>Motor:</b>	DC with encoder
<b>Transmission:</b>	4WD
<b>Magnet:</b>	permanent with unlocking handle

**Battery charger AL1820CV:**

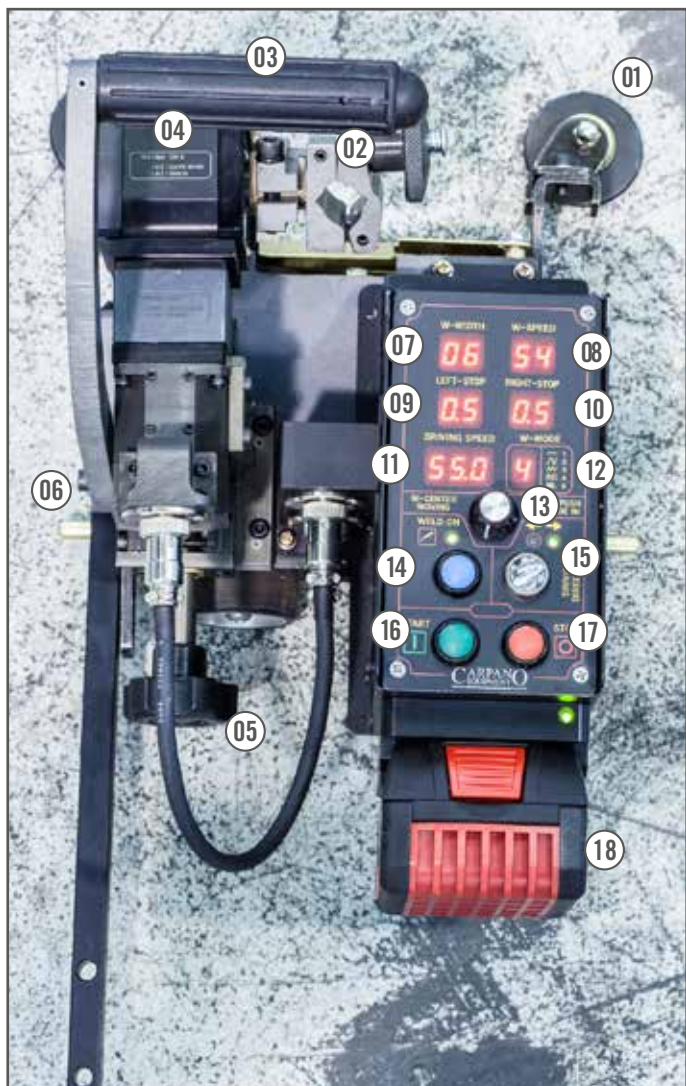
<b>Feeding</b>	230V 50-60Hz - 50W
<b>Charging time</b>	about 120 min
<b>Weight</b>	0,5kg

**Rechargeable battery**

<b>Li-Ion</b>	4Ah - 18V
<b>Operating autonomy</b>	about 6h



## Adjustments And Controls



- 01 Driving rolls
- 02 Torch holder – for automatic torch 15<>19mm diameter
- 03 Handle for moving and for releasing the magnet
- 04 Oscillator
- 05 Oscillator cross position adjuster
- 06 Limit-switch
- 07 Display Oscillation width
- 08 Display Oscillation speed
- 09 Left pause
- 10 Right pause
- 11 Chariot speed
- 12 Oscillation modes
  - a – linear welding without oscillation
  - b – chariot moves during oscillations and pauses
  - c – chariot moves during oscillations and stops during pauses
  - d – chariot stops during oscillations and moves during pauses
  - e – chariot stops while the torch swings away from it, moves when torch swings towards it and stops during the pauses
- 13 Multifunction knob
- 14 Weld ON/OFF button
- 15 Chariot FW/BCKW button
- 16 Start button
- 17 Stop button
- 18 Rechargeable 18V Li-Ion 4 Ah battery



### WAVE-Remote

C Wireless remote control that can be purchased separately.

It is provided with all functions present on the control panel, but allows to adjust each parameter without using the multifunction knob.

It is provided with rechargeable battery with battery charger.

A small magnet allows to place it on any sheet metal surface.



### What does WAVE code include:

- 01 Chariot with oscillator
- 02 18V Li-Ion 4Ah rechargeable battery (for further batteries use the code SPT-18-4Ah)
- 03 AL 1820 CV battery charger
- 04 Allen keys set

### What does WAVE-Remote code include:

- 05 Wireless remote control
- 06 Wireless remote control battery charger

### Accessories:

- 07 SPT-PTC torch cable support
- 08 SPT-165 ON/OFF magnet for operating the limit-switches
- 09 SPT-ANG extension arm for butt welding
- 10 SPT-ROT Kit for moving the chariot along rails

## Applications



**Corner inner welding with drive wheels on the horizontal plate of the workpiece.**

Vertical plate acts as a guide.



**When welding in vertical position magnets and motor with encoder allow the chariot to go forward with precision.**

For safety reasons we suggest to tie the chariot to a security cable.



**Welding on plane or curves surfaces.**

Minimum workpiece diameter is 800mm.

In order to execute butt welding you must install SPT-ROT with special guidance rolls that move along a flexible steel strip



## 1. SUPPLY OBLIGATION ARRANGEMENT

The following general terms of business are always to be considered applicable to every order made by the buyer. Therefore, any supply clause written by the buyer on his orders or any other document given to the seller, which may result to be conflicting with the present general conditions, will be considered not written. The buyer has to forward the orders to the seller in writing. The seller reserves the authority to accept telephone and verbal orders. The order is to be considered executed when the buyer receives the written acceptance of the same (order confirmation) by the vendor or, in the absence thereof, automatically 15 days after the order receipt by the seller. All offers and prices are just an indication and are not binding. Therefore the seller considers himself to be bound only to what is declared in his order confirmations.

## 2. TERMS FOR DELIVERY

The delivery dates indicated by the seller as well as the ones written on the buyers' orders have to be considered just as an indication and are not binding and are subject to the punctual supply by the buyer of all the specifics, to the variations due to the availability of the goods with the suppliers or to reasons of force majeure: delays in the delivery due to said availability variations are not attributable to the seller, who is not in duty bound to the compensation for damages suffered by the buyer. Reasons of force majeure have also to be considered the accidents (industrial injury, disease, etc) and any other circumstances which may cause a total or partial job reduction, as well as the lack of raw materials, troubles with transportation, etc. The seller reserves the authority to suspend the delivery of the goods if the buyer has not seen to the payment of the invoices relative to other supplies whose terms of payment are overdue. The goods are understood as being delivered for all intents and purposes to the buyer from the time they were picked up by the carrier or the buyer himself at the seller's warehouse.

## 3. PAYMENT AND TERMS OF PAYMENT

The payments have to be made to the seller's domicile and in accordance with the established conditions. In the event of a delay, the due amounts of money will automatically imply the charge of interests based on the official discount rate plus 5 points. In the event of a non-payment, the buyer is to be considered in default without the necessity of any formal notice by the seller. The presence of possible faults and/or defects in the products does not excuse the buyer for suspending the payment of the invoices. Should the client suspend and/or delay the payments, the seller may suspend the supplies, with the authority to consider the contract automatically terminated by rights and to demand for damages.

## 4. WARRANTY

CARPANO EQUIPMENT guarantees the products for a period of 24 months starting from the delivery date, for a daily work cycle of 8 hours. The warranty is intended ex works CARPANO EQUIPMENT. CARPANO EQUIPMENT guarantees the performance of its products in accordance with the instructions written in the relative manuals. For the products based on job orders, the warranty is pertaining to the specifics agreed with the client.

## 5. VOID WARRANTY

In case of any tampering or unauthorized intervention the warranty shall be deemed void.

## 6. LIABILITY FOR DAMAGE

The seller's liability is limited only to the obligations above and it's expressly agreed that the seller does not accept any liability for damages resulting from any cause connected with the use and utilization of the sold products.

CARPANO EQUIPMENT is not responsible and for no reason whatsoever may the expenses be charged for:

- Machine downtime.
- Direct or in direct damage due to the non-operation of the equipment.
- Working hours spent to solve possible problems on the equipment.

## 7. RESERVATION OF OWNERSHIP

Until the payment in full of any credit resulting from business relations has taken place, included any additional credit and until the payment of bills and cheques has been made, the property in the goods remains in the seller.

## 8. COMPETENT COURT

It's established that the court of Bologna will be the sole competent court for every dispute relative to this contract.

## 9. APPLICABLE LAWS

The applicable law is the Italian law.

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