



**CAR-O-LINER®**

**CMI™ MIG/MAG WELDERS**  
**FOR ALL WELDING SITUATIONS**



# CMI™ & CMI™ TWIN

FOR ALL WELDING SITUATIONS

WITH ONE TORCH, THE CMI™ WELDERS OFFER QUICK AND EASY WELDING THROUGH A FULLY DIGITAL INTERFACE. WITH TWO TORCHES, THE CMI™ TWIN WELDERS GIVE YOU AN EASY SWITCH-OVER BETWEEN WELDING AND BRAZING.



# MULTIFACETED

TECHNOLOGY WITH BUILT-IN ADVANTAGES

The **CMI** welders have auto-pulse technology for advanced pulse welding of aluminum and are designed for all materials and individual welding applications, including high strength steel. The exceptional 4-wheel wire feed system provides a smooth, reliable wire feed even on softer wires such as aluminum or with MIG brazing.

The **CMI** welders are designed for today's vehicles and meet the increasing demands for joining the new materials used in them. With two torches, the **CMI Twin** models offer an easy switch-over between welding and brazing operations without having to change hoses, wires, wire drive rolls or gas.

## THE FULLY DIGITAL REVOLUTION

### PULSE, TWIN & BOOST

Quickly change from one welding mode to another

### LONG POWER CABLE

Reaches everywhere  
8m (314,96in)

### EASY MOVEMENT

From one place  
to another



### REACH FURTHER

With the 4m (157,48in)  
torch cable

### PERFECT ANGLE

with the MIG-A Twist 360°  
rotatable swan neck



# ROBUST & VERSATILE

FOR ADVANCED WELDING

## AUTOMATED FUNCTIONS

Whether doing simple MIG/MAG or complex welding operations, the machine's preset welding programs and automated functions easily handle the entire welding process through the fully digital control panel. The easy-to-use controls provide all key information at a glance. The technician sets the thickness and the machine adjusts all other parameters.

## 4-WHEEL WIRE FEED

The exceptional 4-wheel wire feed system provides a smooth, reliable wire feed even on softer wires such as aluminum, and during MIG brazing.

## EXTEND YOUR REACH

All versions of the **CMI** welders come with the **MIG-A TWIST®** torch. The 360° rotating swan neck of the **MIG-A TWIST** allows access to hard-to-reach places. It is possible to mount different modules on top of the torch for adjustment of the most important welding parameters. Save time by conveniently adjusting the welder using the remote control on the torch and add efficiency to your welding operation.

## EASY UPDATE

The SD card gives you access to future program updates.



## FEATURES AND BENEFITS

- **AUTO-PULSE TECHNOLOGY** protects heat-sensitive metals
- **REMOTE CONTROL ON THE TORCH** increases efficiency as the technician can conveniently adjust the weld setting from the torch
- **PRECISE 4-WHEEL WIRE FEED** system reliably feeds soft wires such as aluminum
- **TWIN WIRE FEED SYSTEM** — an efficient switch between key materials is just a click away when using the CMI Twin
- **PRESET SETTINGS** for different material applications ensure correct welds
- **ENERGY SAVING STANDBY FUNCTION** (15-30W idling) gives less CO<sub>2</sub> emission & long component life
- **COMPACT DESIGN & LOW WEIGHT** make it user friendly, flexible and mobile



THE **CMI™** WELDERS ARE EQUIPPED WITH A **MIG-A TWIST®** TORCH. THIS SWIVEL DEVICE ALLOWS YOU TO ACCESS HARD-TO-REACH PLACES.

# CMI™ 273 PULSE TWIN

ACHIEVING TOMORROW



ROBUST FOR ADVANCED WELDING

## AUTO PULSE WITH DOUBLE PULSE FUNCTION

The **CMI** welders are available with an auto-pulse control panel. This control panel features double pulse, an advanced pulse operation which utilizes two pulse levels. The machine's smart design ensures that as the levels are pulsed, the wire feed speed and pulse frequencies are also adjusted. The result is a cooler, TIG-like weld and better control of the arc with a minimum of weld spatter ensuring preservation of strength and surface of the plates and profile tubes.

## PRECISION THROUGH AUTOMATION

With two torches, the **CMI273 Twin** offers an easy switch-over between welding and brazing operations without having to change hoses, wires, wire drive rolls or gas. You get quick and easy welding through a fully digital interface. The **CMI273 Pulse Twin** also offers synergic preset welding programs and automated functions.

## MIG BRAZING

The **CMI** & **CMI Twin** welders are equipped with an electronic boost converter (auto transformer) for the welding and brazing of galvanized steel plates. This function ensures maintenance of the material in terms of corrosion and strength, and reduces post-treatment of distortion of plates and profile tubes to a minimum. The result is cost-effective and efficient welding.

## FEATURES AND BENEFITS CMI™273 PULSE TWIN

- **EXCELLENT WELD POOL CONTROL**, especially with positional welding
- **SMALLER HEAT-AFFECT ZONES (HAZ)** limiting reduction in strength
- **MINIMAL LOSS OF ZINC COATING** while brazing
- **BETTER ADAPTATION** to variations in gap width

“ THE FULLY DIGITAL REVOLUTION! SWITCH ON, PRESS AND WELD ”

# PRODUCT INFORMATION

AND TECHNICAL DATA

STANDARD COMPONENTS

STANDARD COMPONENTS

CMI183 3 X 400V

Part No. 46444

| ITEM         | DESCRIPTION                 |
|--------------|-----------------------------|
| Gun and hose | ML150 Twist R 4m 0.8 nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue        |
| Wire feeder  | V - 0.8                     |

CMI183 TWIN 3 X 400V

Part No. 46445

| ITEM         | DESCRIPTION  |
|--------------|--|
| Gun and hose | ML240 Twist R 4m 0.8 nozzle<br>ML240 Twist R 4m 1.0 ALU nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue<br>Teflon 1.2 - 1.6                       |
| Wire feeder  | V - 0.8<br>U - 1.0   |

CMI223 3 × 400V

Part No. 43799

| ITEM         | DESCRIPTION                 |
|--------------|-----------------------------|
| Gun and hose | ML150 Twist R 4m 0.8 nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue        |
| Wire feeder  | V - 0.8                     |

CMI223 TWIN 3 × 400V

Part No. 43800

| ITEM         | DESCRIPTION  |
|--------------|--|
| Gun and hose | ML240 Twist R 4m 0.8 nozzle<br>ML240 Twist R 4m 1.0 ALU nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue<br>Teflon 1.2 - 1.6                       |
| Wire feeder  | V - 0.8<br>U - 1.0   |

CMI273 3 X 400V

Part No. 46446

| ITEM         | DESCRIPTION                 |
|--------------|-----------------------------|
| Gun and hose | ML240 Twist R 4m 0.8 nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue        |
| Wire feeder  | V - 0.8                     |

CMI273 TWIN 3 X 400V

Part No. 46445

| ITEM         | DESCRIPTION  |
|--------------|--|
| Gun and hose | ML240 Twist R 4m 0.8 nozzle<br>ML240 Twist R 3m 1.0 ALU nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue<br>Teflon 1.2 - 1.6                       |
| Wire feeder  | V - 0.8<br>U - 1.0   |

CMI273 PULSE 3 X 400V

Part No. 46448

| ITEM         | DESCRIPTION                     |
|--------------|---------------------------------|
| Gun and hose | ML240 Twist R 4m 1.0 ALU nozzle |
| Wire leads   | Teflon 1.2 - 1.6                |
| Wire feeder  | U - 1.2                         |

CMI273 PULSE TWIN 3 X 400

Part No. 46450

| ITEM         | DESCRIPTION  |
|--------------|--|
| Gun and hose | ML150 Twist R 4m 0.8 nozzle<br>ML240 Twist R 4m 1.0 ALU nozzle |
| Wire leads   | Steel 0.8 - 1.0 Blue<br>Teflon 0.8 - 1.0                       |
| Wire feeder  | V - 0.8<br>U - 1.0   |

# PRODUCT INFORMATION

AND TECHNICAL DATA

OPTIONAL ACCESSORIES

TECHNICAL DATA

WIRE FEED KIT 0,6

Part No. 44746

ALUMINUM WIRE

| ITEM                      | PART. NO. |
|---------------------------|-----------|
| AlMg 5 1.0mm 2kg (4.4lb)  | 35178     |
| AlMg 5 1.0mm 6kg (13.2lb) | 34344     |

GALVANIZED WIRE

| ITEM                    | PART. NO. |
|-------------------------|-----------|
| SG1 0.8mm 5kg (11.0lb)  | 34345     |
| SG1 0.8mm 15kg (33.0lb) | 34346     |

MIG-BRAZING WIRE PSA

CuAl 8 1.0mm 5kg (11.0lb)

Part No. 34049

MIG-BRAZING WIRE GM

| ITEM                          | PART. NO. |
|-------------------------------|-----------|
| CuSi 3 1.0mm 5kg (11.0lb)     | 34202     |
| Gas regulator 30L             | 34203     |
| Adapter for 5kg (11.0lb) reel | 33509     |

TECHNICAL DATA

CMI183 & CMI 183 TWIN

| SPECIFICATION           | PARAMETER |
|-------------------------|-----------|
| Input voltage +/- 15%   | 3 x 400V  |
| Fuse                    | 10A       |
| Duty cycle 100% at 40°C | 115/19.8  |
| Duty cycle 60% at 40°C  | 125/20.3  |
| Duty cycle 100% at 20°C | 160       |
| Duty cycle 60% at 20°C  | 180       |

CMI183 & CMI 183 Twin CONT.

| SPECIFICATION         | PARAMETER                     |
|-----------------------|-------------------------------|
| Current range, A      | 15 - 180A                     |
| Protection class      | IP23S                         |
| Norm                  | EN/IEC 60974-1/5/10           |
| Dimensions (single)   | 66x38x79cm (25.9x14.9x31.1in) |
| Dimensions (twin/duo) | 96x60x85cm (37.7x23.6x33.4in) |
| Weight (single)       | 26.2 kg (56 lbs)              |
| Weight (twin/duo)     | 41.2 kg (90 lbs)              |

CMI223 & CMI223 TWIN

| SPECIFICATION           | PARAMETER                     |
|-------------------------|-------------------------------|
| Input voltage +/- 15%   | 3 x 400V                      |
| Fuse                    | 10A                           |
| Duty cycle 100% at 40°C | 165/22.3                      |
| Duty cycle 60% at 40°C  | 175/22.8                      |
| Duty cycle 100% at 20°C | 220                           |
| Duty cycle 60% at 20°C  | -                             |
| Current range, A        | 5 - 230A                      |
| Protection class        | IP23S                         |
| Norm                    | EN/IEC 60974-1/5/10           |
| Dimensions (single)     | 66x38x79cm (25.9x14.9x31.1in) |
| Dimensions (twin/duo)   | 96x60x85cm (37.7x23.6x33.4in) |
| Weight (single)         | 26.2 kg (56 lbs)              |
| Weight (twin/duo)       | 41.2 kg (90 lbs)              |

CMI273 & CMI273 TWIN

| SPECIFICATION           | PARAMETER                    |
|-------------------------|------------------------------|
| Input voltage +/- 15%   | 1 or 3 x 230V (200 - 440V)   |
| Fuse                    | 10A                          |
| Duty cycle 100% at 40°C | 175/22.8                     |
| Duty cycle 60% at 40°C  | 205/24.3                     |
| Duty cycle 100% at 20°C | 230                          |
| Duty cycle 60% at 20°C  | 245                          |
| Current range, A        | 15 -270 A                    |
| Protection class        | IP23S                        |
| Norm                    | EN/IEC 60974-1/5/10          |
| Dimensions (single)     | 55x25x64cm (21.6x9.8x25.1lb) |
| Dimensions (twin/duo)   | 96x57x87 (37.7x22.4x34.2lb)  |
| Weight (single)         | 26kg (58lbs)                 |
| Weight (twin/duo)       | 55kg (124lbs)                |

# WE CARE ABOUT BODY SHOPS

EXCELLENCE. INNOVATION. PASSION.

CAR-O-LINER ACADEMY

We are a competence development partner for the automotive industry, our main objective is to improve quality, safety and profitability for body shops.

THE TRAINING YOU NEED



RIGHT PERSON



RIGHT TIME



RIGHT COURSE



RIGHT COMPLEXITY

We enhance our customer's abilities by identifying the real competence and development needed. Offering solutions to meet these needs and accelerate the business growth.

WE OFFER THE SOLUTION



WE IMPLEMENT THE TRAINING



WE FIX THE ROOT OF THE PROBLEMS



WE MEASURE RESULTS

CUSTOMER SUPPORT

The Car-O-Liner Group headquarters is located in Gothenburg, Sweden, with subsidiaries located in Norway, Germany, France, United Kingdom, Italy, China, India, United States, Thailand and the Middle East. Wherever you are, Car-O-Liner can provide customers with product information, training, support or data subscription/renewal.

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