

# MIDI MIG 300 DC G W

## Multifunction welding machine

Excellent process control by  
welding process control  
Virtual Machine (VM3)  
- the source of best welding quality!

With many references from the  
Automotive Industry.

MIDI MIG 300 DC G  
(Gas cooled)



Optionally also with  
external wire feed unit DV 39



Wire Feed Unit DV 39  
Dimension: 650 x 290 x 400 mm  
Weight: 14 kg



### Standard equipment:

- Gas cooling / water cooling
- MIG welding torch 3 m
- Pressure reducer, ground cable 5 m
- Gas hose 1,5 m, Basket coil holder
- Polyamide core 2 x 4 for 4 m
- Trolley with gas bottle holder

### Special characteristics:

- Brazing with low spatter of hot-dip galvanized and electrogalvanized sheets
- Very good gap bridging
- Reduced penetration depth at higher deposition rate
- Radical reduce of weld spatters
- Enhanced separation of penetration bead
- Outstanding welding quality
- Maximum reproducibility and setting accuracy
- Suitable for manual and mechanized welding
- Dual pulse processes (shingling)
- Maximum process safety due to the ELMA-Tech control system of static and dynamic characteristic via virtual machine
- Display single knob operation
- Clearly indication of process parameters
- Access to welding parameters from the integrated welding data base
- Storage of up to 99 customized welding programs
- Standard machine with USB interface for data storage and transfer (cloning)

### Fields of application

Special vehicle and machine construction | plant, container, machines and steel engineering | automotive and supply industry | industrial facilities | pipeline constr. and mounting | repair and maintenance, reworking | aerospace | railway vehicles | shipbuilding, offshore

## Technical Information

### MIDI MIG 300 DC

Every machine of the ELMA-MIDI generation has access to an integrated data base that practically contains all the characteristics of up-to-date welding processes including required welding parameters.

The multifunction knob allows the machine to be adjusted easily and speedily to specific welding tasks like the welding or MIG-brazing of different materials like steel, aluminum, magnesium or galvanized sheets.

MIDI MIG 300 DC G  
(Gas cooled)



#### Technical characteristics:

##### Welding Capacity

|                          |               |
|--------------------------|---------------|
| Setting range from       | 10 A / 14,5 V |
| (infinitely variable) to | 300 A / 29 V  |
| Max. pulse current       | 800 A         |
| No-load voltage approx.  | 85 V DC       |

##### Connection data

|                         |                  |
|-------------------------|------------------|
| Supply voltage          | 3 x 400 V, 50 Hz |
| Fusing (delayed action) | 16 A             |

|                 |  |
|-----------------|--|
| Protection type | IP 23  |
| Dimensions      | 500 x 340 x 600 mm (G)<br>760 x 340 x 600 mm (W) |
| Weight          | 60 kg (G) / 78 kg (W)                            |

MIDI MIG 300 DC W  
(Water cooled)



#### Welding processes:

- MIG DC impulse welding
- MIG / MAG welding
- DUAL pulse welding
- MIG brazing

Technical changes reserved.



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THROUGH RESEARCH

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