

SHORT-INFO

# MicorMIG 400

**The MIG-MAG all-rounder for every application.**

- End crater filling
- Dynamic control
- EN1090-certified
- Ready for Speed
- Intuitive operation
- Patented MicorBoost technology



## At a glance

### **No-contact data transfer**

The digital interface allows for effortless access and management of your power source thanks to Lorch's NFC cards. The card management utility assists you in controlling user access rights, allows you to read and write jobs and makes upgrading as easy as can be.

### **End crater filling**

End crater filling can be activated when necessary and ensures that the welding current is not cut off abruptly but, instead, lowered in a controlled manner. This feature gives the weld pool enough time to cool down, and the end crater is filled automatically with material when the welding current is rather low.

### **Dynamic control**

The dynamic control feature lets you choose the arc characteristics you prefer. Depending on the operating panel you have selected, you can opt for dynamic levels that range from "soft" to "hard".

### **Infinitely variable welding inverter**

In contrast to conventional transformer systems, the machines of the Lorch MicorMIG series make it possible for operators to customise the current-voltage ratio in an infinitely variable manner, thereby allowing them to pick the setting that is perfect for their particular welding requirements.

### **Versatility**

Operating equally well with argon-CO<sub>2</sub> mixed gas and 100% CO<sub>2</sub>, Lorch MicorMIG is perfectly equipped for international use.

### **Powermaster**

Lorch's Powermaster torch enables the welder to control all key parameters including operating points or dynamics right from the torch's handle recess.

## **EN 1090-certified**

As synergetic control and automatic setting control are built in, Lorch MicorMIG is guaranteed to produce welding results that are in conformity with the EN 1090. Combine your machine with Lorch's special offer EN 1090 package as well as parameter setting control by NFC cards, and you are ready to handle any welding task they can throw at you.

# Benefits

## **Compact**

All machines of the Lorch MicorMIG series with a power output of up to 500 amperes are also available with a compact housing. This space-saving design allows you to stow your unit under the workbench or use it as a storage surface for equipment that you can place on its top.

## **Wire compartment lighting**

The powerful LEDs integrated into the compartment of the wire feeder make it much easier for you to change the reel and thread in the wire even in complete darkness or low light conditions.

## **Top-tier electrode welding**

Apart from producing flawless MIG-MAG weld seams, Lorch MicorMIG systems also allow you to achieve outstanding electrode welding results. All you need to do to convert your MicorMIG into an electrode welding machine is remove the torch, connect the electrode holder to the additional electrode port and select electrode welding on the operating panel. If you activate the "Electrode-Plus" upgrade, you can even perform such tasks as CEL, rutilite and basic welding as well as gouging.

## **Welder identification made easy**

The ability to clearly define the setup and operating rights for different users is a feature of key importance for today's production plants. The no-contact data transfer option available for Lorch's MicorMIG series makes it possible to identify the welder at any time.

## **Colour-coded feed rolls**

Lorch's colour-coded feed rolls of the MicorMIG series represent different wire diameters and make replacing the rolls a walk in the park.

Easy replacement of inter-connection hose package

The locking mechanism and the strain relief device of the inter-connection hose package are designed in such a way that they can be replaced by the welder himself.

## **EN 1090-certified**

The corresponding EN 1090 WPS package helps you save time and money as it eliminates the need for individual tests of your welding results. The package is comprised of welding instructions that apply to all relevant standard welding processes and have been certified by an approved and independent authority.

## **Data documentation**

Lorch's Q-Data recorder allows you to keep a firm eye on the quality standards your client wants you to observe and detect and avoid any errors before they become a problem.

## **Job management**

You can use the ControlPro operating panel to write any welding job you have set up to a blank NFC card and retrieve the stored information at any Lorch MicorMIG power source (BasicPlus or greater) whenever you need it.

## **Intuitive operation**

The Lorch MicorMIG series offers three different user interfaces that are nearly self-explanatory. Switching to a different operating panel at a later time is a seamless experience and involves no learning curve.

### Feeder case made of high-performance plastic

The optional MicorMIG feeder case MF-08 offers a host of advantages. While designed to accommodate 300 mm wire reels, it still fits through a manhole as required by the TRD 702 (320 x 420 mm). Enclosed in high-performance plastic, the case provides superior protection and achieves first-rate insulation levels.

### For clearer views

Sporting an integrated fill level indicator, the MF-08 feeder case included in the Lorch MicorMIG series shows you at a glance how much wire is still left at your disposal. This feature does away with the need to interrupt your work and take an unscheduled break in order to fetch another roll of wire.

### Adaptable

It takes only a few steps to rotate the operating panel on the MF-08 feeder case of the Lorch MicorMIG series by 90°, converting it into a unit suitable for horizontal applications.

### Ready for Speed

Complete your welding jobs with even greater ease and speed by implementing optional Lorch Speed upgrades into your MicorMIG machine.

## Controlconcept

### Basic

- "3 steps to weld" operating concept
- Infinitely adjustable welding current setting
- Volt-ampere display
- Activation of end crater filling as necessary
- 3-stage arc dynamic control



### BasicPlus

- "3 steps to weld" operating concept
- Infinitely adjustable welding current setting
- Volt-ampere display
- Activation of end crater filling as necessary
- 7-stage arc dynamic control
- With automatic setting control
- Welding program selection in the feed compartment
- 2-cycle, 4-cycle, spot and interval welding
- Upgradeable



### ControlPro

- "3 steps to weld" operating concept
- Infinitely adjustable welding current setting
- Volt-ampere display
- High-luminosity graphic display
- Intuitive menu guidance
- Activation of end crater filling as necessary
- 21-stage arc dynamic control
- With automatic setting control
- Welding program selection in the feed compartment
- 2-cycle, 4-cycle, spot and interval welding
- TipTronic
- Fully upgradeable



**Technical Data: MicorMIG-Serie****MicorMIG 300****MicorMIG 350****MicorMIG 400****MicorMIG 500****MIG-MAG**

<b>Welding range (in A)</b>	25-300	25-350	30-400	30-500
<b>voltage setting</b>	infinitely variable	infinitely variable	infinitely variable	infinitely variable

**Duty cycle**

<b>duty cycle 100% 40 °C (in Amps)</b>	200	250	300	370
<b>duty cycle 60% 40 °C (in Amps)</b>	250	300	370	430
<b>duty cycle at max. current 40 °C (in %)</b>	45%	45%	45%	45%

**Feeder and wire**

<b>wire feed unit</b>	4 rolls (2 driven)	4 rolls (2 driven)	4 rolls (2 driven)	4 rolls (2 driven)
<b>weldable wires steel (in mm)</b>	0,6-1,2	0,6-1,2	0,6-1,6	0,6-1,6
<b>weldable wires aluminium (in mm)</b>	1,0-1,2	1,0-1,2	1,0-1,6	1,0-1,6

**Mains**

<b>mains voltage (in V)</b>	400	400	400	400
<b>phases (50/60 Hz)</b>	3~	3~	3~	3~
<b>positive mains tolerance (in %)</b>	15%	15%	15%	15%
<b>negative mains tolerance (in %)</b>	15%	15%	15%	15%
<b>mains fuse (in Amps)</b>	32	32	32	32
<b>mains plug</b>	CEE 32	CEE 32	CEE 32	CEE 32

**Dimensions and weights**

<b>power source dimensions (LxWxH) A version (in mm)</b>	880x400x755	880x490x855	880x490x855	880x490x855
<b>power source dimensions (LxWxH) B version (in mm)</b>	880x490x890	880x490x955	880x490x955	880x490x955
<b>weight, power source A-version gas-cooled (in kg)</b>	51	58	61	64
<b>weight, wire feed case (workshop version) (in kg)</b>	10,6	10,6	10,6	10,6
<b>weight, water cooling (filled) (in kg)</b>	13,0	13,0	13,0	13,0

## Standards and approvals

standard	EN 60974-01	EN 60974-01	EN 60974-01	EN 60974-01
protection class (EN 60529)	IP23	IP23	IP23	IP23
insulation class	F	F	F	F
designation	CE, S	CE, S	CE, S	CE, S