



**THE ANSWER TO ALL  
OF YOUR QUESTIONS:  
THE MICORMIG.**

[www.micormig.com](http://www.micormig.com)

**LORCH**  
smart welding



**For all-rounders or  
for specialists?**



**For both!**

The MicorMIG series supports beginners with its simple, smart operation and allows pros to adjust all settings just as they like.





# MICORMIG

**Simple.**  
**Reliable.**  
**Future-proof.**

The MicorMIG standard with synergy:  
Optimum results for any application.

Stainless steel, steel, or aluminium? MIG-MAG, TIG, or electrode? The MicorMIG series has the right answer for any material and any application. The easy-to-set arc and the wide selection of welding processes turn the MicorMIG into THE all-round tool for your production.

A transformer system is as it is. And always will be. The hardware itself, limits its performance and functionality. The MicorMIG is different. The upgrade capacity and modular build of the control panel, digital control and state of the art inverter technology keep you perfectly flexible and futureproof. This way, a standard MicorMIG can easily be turned into a MicorMIG Pulse system. It only takes a few seconds.



"Lorch's MicorMIG convinces everyone, from the technical manager to the welders."

- Carsten Faber, processengineer at Faymonville Group

# PULSE PROCESS

**Efficient.**  
**Low-spatter.**  
**Controllable.**

The simple entrance  
into pulse welding.

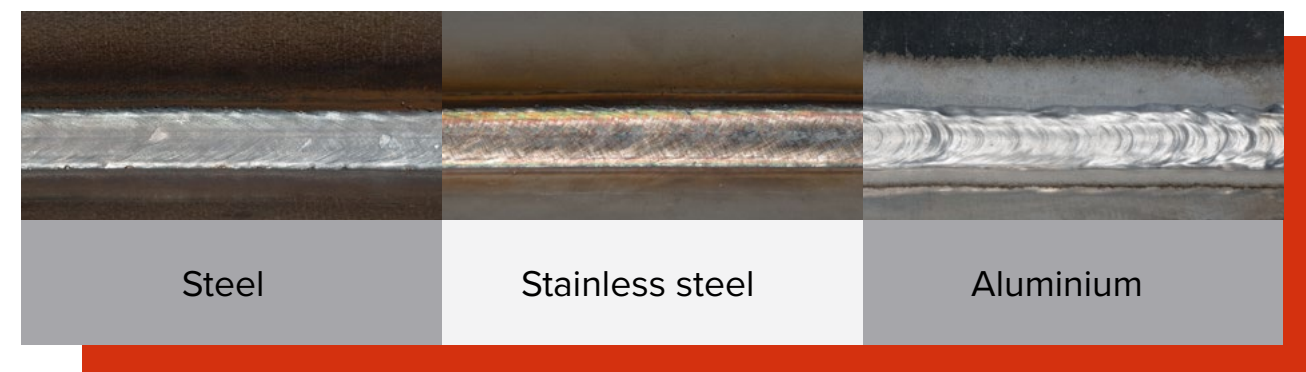
No matter if you are welding steel, stainless steel, or aluminium. The rapid control technology and the MicorMIG pulsed arc that has been tried and tested in practice ensure virtually spatter free welding, even in the transition arc area.

The stable and highly controllable pulsed arc saves you rework and precious time. The MicorMIG Pulse has an unbeatable price-performance ratio: Profit from the perfect welding properties of the MicorMIG Pulse at a low pulse introduction price.

"This pulsed arc is suitable even for beginners."



Perfect weld seams in any material.



Operation has  
never been simpler than  
in the **MicorMIG!**



For beginners and pros – the  
intuitive operation of the MicorMIG.

The MicorMIG could not be any easier to operate. The pre-defined Synergic welding programmes allow the user to set one welding parameter and will then set all the others automatically. Combined with the modern, dynamic MicorMIG control technology, its operation is easy to understand and does not require any complex setting of parameters. This intuitive handling makes the MicorMIG popular among professionals and beginners alike – simple, smart, and without any useless frills. Choose between two operating concepts: clear introductory or practical comfort operation with a graphical display and job store facility.



BasicPlus control panel



ControlPro control panel

As few as 3 steps will lead to the perfect welding result.

1



Select your material,  
wire, and gas

2



Select your process  
and 2-/4-step

3



Setting parameters



**Tried and tested and  
unbreakable or new and  
technology-leading?**



**Both!**

The MicorMIG is a robust, extensively tried and tested welding system with a long service life. Its smart upgrade technology makes it upgradable and keeps it permanently at the state of the art.





# Safely and smartly into the future.

## Stay flexible with NFC upgrades.

The MicorMIG series make you completely future-proof with system functions that will grow along with your needs. They make sure that you always have just the functions you need. How does it work? The NFC function makes all MicorMIG systems fully upgradable. Therefore, you can install additional welding processes, welding programmes, and functions to simplify work with NFC cards subsequently at any time in the future – quickly and without the need for any external support.



## Customisable authorisation system – Securing quality and ensuring safety.

NFC technology allows setting up of personalised authorisation for welding system operation. NFC authorisation cards can be used to limit parameter adjustments, restrict access to the system, or lock it entirely after work. This concept permits simple quality assurance and safety.



## Saving jobs becomes easy – with NFC job cards.

A MicorMIG can save up to 100 welding tasks and call them up again. You have several MicorMIG systems and would like to set the same parameters on each of them? Nothing could be simpler! NFC technology can save the job on a NFC card and call up the parameters within seconds on any MicorMIG series system. It is barely any work at all.

### MASTER OF PRODUCTIVITY

Contains following welding processes and synergy packages:

- + Multi-Material
- + SpeedArc
- + SpeedUp

### MASTER OF PULSE

Everything pulse welding has to offer:

- + Pulse Steel
- + Pulse Multi-Material
- + MicorTwin

### FULL PROCESS

Perfectly positioned for everything that is to come: Combines the scope of Master of Productivity and Master of Pulse in one in one upgrade.



## For everyone who wants everything – the full-process-equipment.

Do you want full flexibility and get the maximum out of your system? Secure the full equipment package for your new top welding system now, including all welding methods and processes – at an unbeatable price!

## Lorch Connect: Your entrance into digital welding production.

Lorch Connect, the simple and cost-efficient cloud solution for reliable recording and analysis of your welding production data, lets you take a large step towards industry 4.0.

It couldn't be any simpler: Connect. Weld. See clearly.



## Lorch Connect Use for 12 months without any risks!

Try it now, without any risks: Every Lorch Connect Gateway allows free use of all current Lorch Connect series for one year. After this, you can book and use the service for EUR 9.90 per gateway and month.

Are you interested now?

Find more interesting information at [www.lorchconnect.com](http://www.lorchconnect.com).





**Quick and  
efficient or high-quality  
and safe?**

**Both!**

The stable MicorMIG arc allows quick and simple welding of high-quality weld seams. This makes the price-performance ratio of the MicorMIG unbeatable.





# The heart of your performance – the arc.

Stable, simple handling and perfect results for any application.

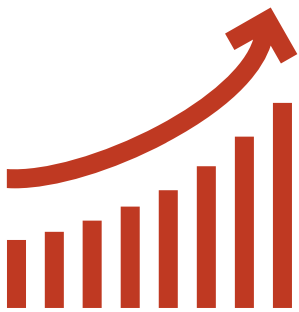
The MicorMIG is the all-rounder among the welding units – not least due to its superb welding performance. The easily adjustable and refined arc of the MicorMIG achieves high-quality weld performance for beginners and pros alike. Always rely on the arc of the MicorMIG – not least because it can be set to fit needs and preferences and optimally match your welding task as a result.

Convince yourself of the many welding processes and setting options that equip your production for any challenge. Always remember: You can make all settings on the smart control technology but you don't have to. The MicorMIG has an answer to any requirement.



"No matter how quickly or slowly you're welding: the weld seam is just right. The MicorMIG produces a great weld – in any position!"

- Jens Steinbach, application engineer at Lorch Schweißtechnik



## More efficient welding – thanks to the MicorBoost.

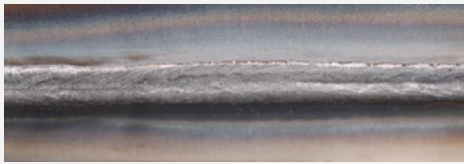
The innovative and patented MicorBoost technology maximises both performance and voltage reserve in the arc. This gives you optimised welding properties for all sheet, medium-grade, and heavy steel work – both with mixed gas and under CO<sub>2</sub>. Outstanding welding results on steel, stainless steel, and aluminium are the result. More information:



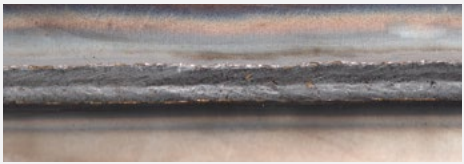
“Determine simply what the arc feels like.”

## Adjusting the arc as desired – thanks to dynamics.

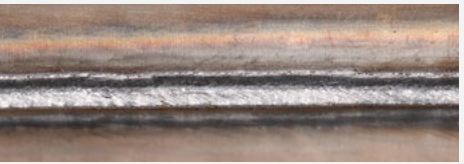
The MicorMIG will adjust to you! The arc dynamics of the MicorMIG can be adjusted as is necessary for the task at hand, welding position, and the preferred welding style. This helps to simply and quickly find the best arc setting – from hard to soft. Anything else is done by the smart arc control technology of the MicorMIG. All the important parameters are controlled automatically in the background.



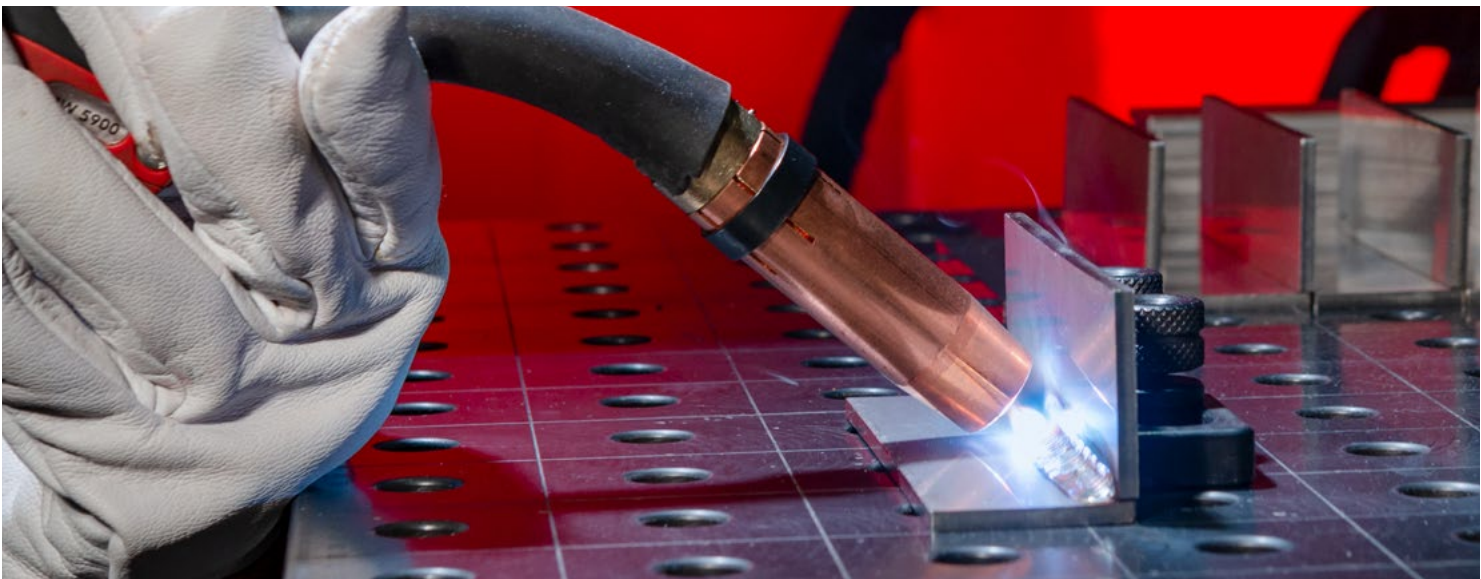
Soft dynamics from a hotter arc, wider weld pool, and less penetration.



Medium dynamics with medium sidewall fusion and regular penetration.



Hard dynamics from colder arc, narrower weld pool, and deeper penetration.





# Always **the right process** – the **Masters of Speed**.

## Our latest innovation: Lorch MicorTwin – the perfect weld appearance at highest speed.

An attractive weld appearance is often valued highly when connecting thin and medium sheets (1-8 mm) in visible locations. The TIG welding method was used here in the past due to its ability of producing beautiful weld seams with an even pattern. The MIG-MAG welding method will be able to do the same now. This makes the process simpler in many areas. For example, double the amount of equipment is no longer necessary, and highly specialised workers can be relieved to take on other tasks that would have to be solved with the TIG procedure otherwise. The perfect weld appearance can be produced easily, by anyone, time and time again. Double welding speed is added to all of the advantages already mentioned! **This offers** beautiful weld seams with the highest speeds.



MIG-MAG MicorTwin



TIG

# The **flux-cored wire packages** make **welding even more efficient** now.

Flux-cored-  
wire welding



Lorch Speed  
processes

Customers weld up to 30% faster with the Lorch flux-cored wire synergic lines, combined with a Lorch welding unit + Speed processes.

Flux-cored wires are particularly popular in welding applications with thick and heavy parts subject to high dynamic stresses. Lorch welding units and the Lorch flux-cored synergic lines, combined with the innovative Lorch Speed processes, can expand the application fields of metal-cored & flux-cored wires considerably whilst improving welding speed. Welding turns even more efficient in combination with the Lorch-Speed processes.

Are you interested? Contact us!

## Further Masters of Speed for the MicorMIG.



### SpeedArc

Stands out with a particularly focused arc and a significantly higher arc intensity.



### SpeedUp

Simple and reliable  
Welding vertical welds without  
Xmas tree welding.

## Maximum power with flux-cored wire.



Metal-cored wire with  
SpeedUp



Metal-cored  
wire with  
SpeedArc



Flux-cored  
wire with  
SpeedArc

## Overview of the advantages of the Lorch Speed processes.

Our processes significantly increase your welding speed, noticeably simplify the process, and enable unparalleled productivity.

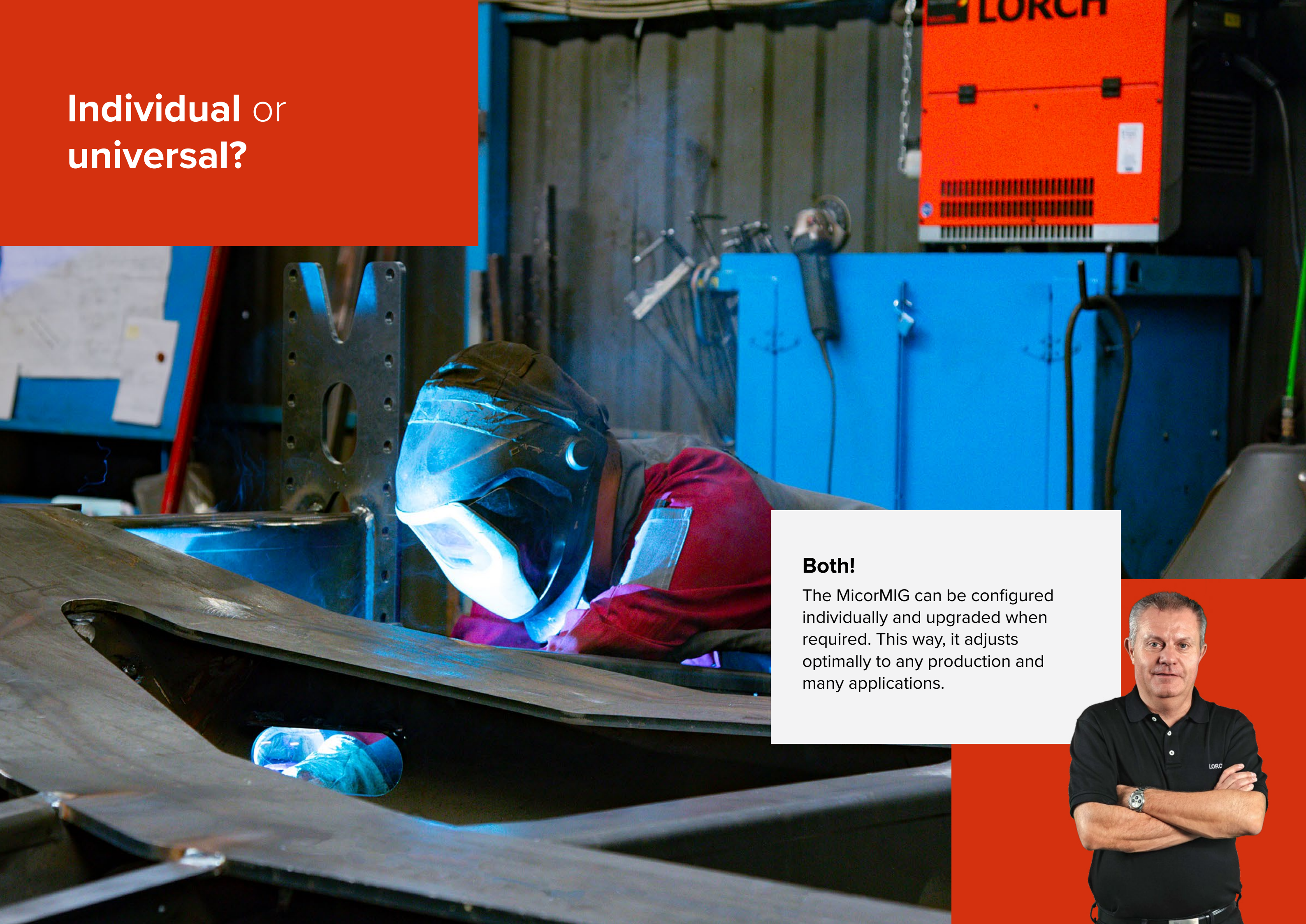
- Higher speeds
- Better weld seam quality
- Higher penetration
- Better look of the weld seams
- Lower welding fume emissions
- Quieter work
- Increased weld integrity due to improved process control

Learn more about our MIG-MAG  
Speed processes here:





Individual or  
universal?



### **Both!**

The MicorMIG can be configured individually and upgraded when required. This way, it adjusts optimally to any production and many applications.





Always **just the options** your production needs.

**Cooling type? Power? Highest resilience?**  
**The MicorMIG has just the right version for you!**

The equipment and accessories for the MicorMIG series are just as diverse as your areas of application. No matter if gas- or water-cooled, as a compact system or with feeder case, with BasicPlus or ControlPro display, one or several displays, different power stages – any welding task and any material will find its perfect solution here. Does the diversity make it hard to come to a decision?

The MicorMIG has an answer for this as well: Just pick one of the ready-to-weld MicorMIG packages with all accessories.



The movable, light-weight, and fall-protected MF-08 wire feeder is perfect for all-round use.



The insulated MF-10 full protection wire feeder is ideal for all demanding environments and extreme working conditions.



The heavy-duty cart – with mobile impact protection for all MicorMIG systems used in demanding working environments.

## MICORMIG MOBILE

**Robust.**  
**Diverse.**  
**Compact.**

The MicorMIG technology you know and love – now in a mobile solution.

The MicorMIG mobile combines the tried and tested technology from the MicorMIG series with the flexibility of a mobile and compact solution. Be it on construction sites, at assembly, or as a flexible solution in island production – the MicorMIG mobile stands out with space-saving design and high performance, delivering precise weld seams of the highest quality anytime and everywhere.

Thanks to intuitive operation, robust construction, and diverse uses, the MicorMIG mobile is the perfect solution for welders with uncompromising demands. The tried and tested strengths, combined with the new mobility and comprehensive accessories, turn the MicorMIG mobile into a diverse and individual system that is able to grow along with its tasks and uses.





Mobile **industrial housing.**  
**Diverse** uses.  
**Adaptable** accessories.

The **MicorMIG**  
**series** makes  
a **difference here.**

The MicorMIG mobile's robust housing is perfect for use in tough environment. Excellent carrying ergonomics and low weight make it easy for two people to carry the system. The MicorMIG mobile can be flexibly used in stationary and mobile applications. Its diversity makes it ideal for any applications from construction sites to industrial production environments.

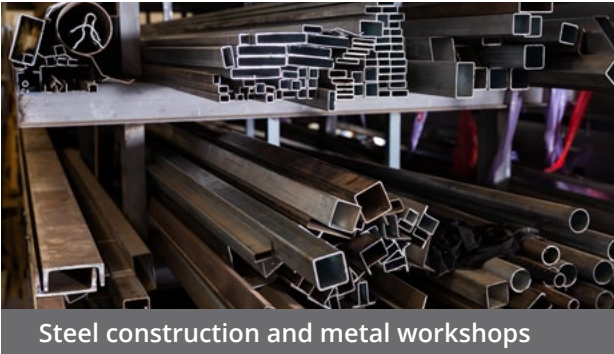


Flexibility where it is needed.

The MicorMIG provides the flexibility needed for modern welding tasks. No matter where you are working: the MicorMIG will adjust to your requirements and supply reliable results at all times.



Metal-processing industry



Steel construction and metal workshops



Assembly



Construction trade



Metal-processing crafts



Heavy duty  
trolley



Ergonomic  
handles



Wire feed  
rolls holder

Our partners are ready for  
you. Surely also in your area.

Find a partner now:  
[www.lorch.eu/find-partner](http://www.lorch.eu/find-partner)





VERSIONS

	MicorMIG 300	MicorMIG 350	MicorMIG 400	MicorMIG 500
Welding area	25 – 300 A	25 – 350 A	30 – 400 A	30 – 500 A
Voltage setting	Stepless	Stepless	Stepless	Stepless
Mains connection 3 ~ 400 V	●	●	●	●
Operation concepts				
BasicPlus	●	●	●	●
ControlPro	●	●	●	●
Cooling versions				
Gas	●	●	●	●
Water	●	●	●	●
Setup versions				
Compact system	●	●	●	●
Feeder case system	●	●	●	●
	● Optional   ● Standard equipment   ○ Optionally available			

TECHNICAL DATA

	MicorMIG 300	MicorMIG 350	MicorMIG 400	MicorMIG 500
Welding current MIG-MAG	25 – 300 A	25 – 350 A	30 – 400 A	30 – 500 A
Current at 100 % ED	200 A	250 A	300 A	370 A
Current at 60 % ED	250 A	300 A	370 A	430 A
ED at I max.	45 %	45 %	45 %	45 %
Mains voltage	3~400 V	3~400 V	3~400 V	3~400 V
Admissible mains tolerance	± 15%	± 15%	± 15%	± 15%
Mains fuse, slow blow fuse	32 A	32 A	32 A	32 A
Dimensions, compact system (L × W × H)	880 x 490 x 885 mm	880 x 490 x 885 mm	880 x 490 x 885 mm	880 x 490 x 885 mm
Dimensions separate wire feeder system (L × W × H)	880 x 490 x 955 mm	880 x 490 x 955 mm	880 x 490 x 955 mm	880 x 490 x 955 mm
Weight, compact system, gas-cooled	58 kg	58 kg	61 kg	66 kg
Weight, wire feeder	10.6 kg	10.6 kg	10.6 kg	10.6 kg
Additional weight water cooling (filled)	13 kg	13 kg	13 kg	13 kg
Efficiency I2 Max	89 %	89 %	90 %	90 %

VERSIONS

	MicorMIG mobile 300	MicorMIG mobile 350
Welding area	25 – 300 A	25 – 350 A
Voltage setting	stepless	stepless
Mains connection 3 ~ 400 V	●	●
Operation concept		
ControlPro	●	●
Cooling version		
Gas	●	●
	● Optional   ● Standard equipment   ○ Optionally available	

TECHNICAL DATA

	MicorMIG mobile 300	MicorMIG mobile 350
Welding current MIG-MAG	25 – 300 A	25 – 350 A
Current at 100 % ED (40 °C)	200 A	250 A
Current at 60 % ED (40 °C)	250 A	300 A
ED at I max.	45 %	45 %
Unit		
Mains voltage	3~400 V	3~400 V
Admissible mains tolerance	± 15 %	± 15 %
Mains fuse, slow blow fuse	16 A	32 A
Mains plug	CEE 16	CEE 32
Dimensions (L × W × H)	635 x 547 x 310 mm	635 x 547 x 310 mm
Weight	35 kg	35 kg
Efficiency I2 max.	89 %	89 %



Try out the  
**MicorMIG** and  
**see** for yourself!



#### Overview of the advantages:

- ✓ Quick and simple operation
- ✓ Simple setting thanks to pre-defined synergic welding programmes
- ✓ Robust, dynamically controlled arc
- ✓ Simple and cost-efficient entrance into pulse welding
- ✓ MIG-MAG, TIG, and electrode – all methods included
- ✓ Suitable for all common materials
- ✓ Always with the perfect welding processes for the application
- ✓ Future-proof: Processes can be upgraded as required
- ✓ Simple job memory and transfer by NFC to other MicorMIG-systems

The answer to all questions: The MicorMIG.

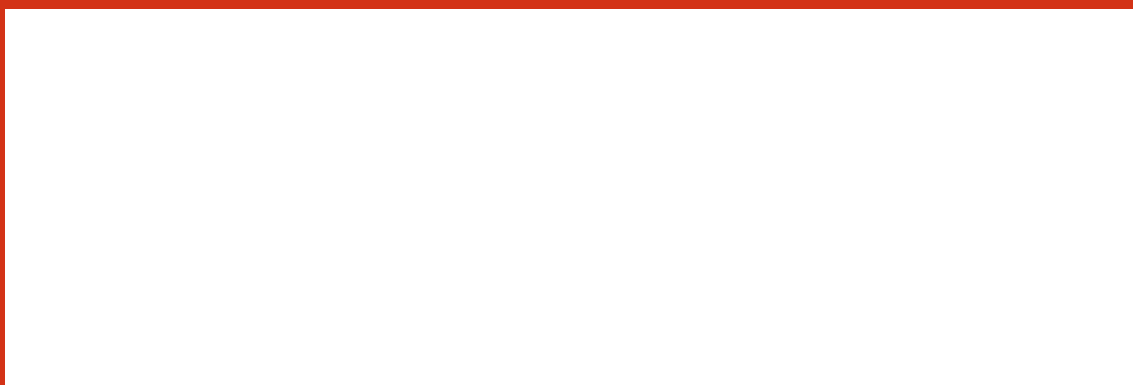
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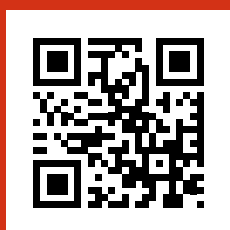


MADE IN GERMANY

Your local Lorch partner:



For further information, see  
**[www.micormig.com](http://www.micormig.com)**



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**LORCH**  
smart welding