

Big advantage on thin sheets:

# THE MICORMIG PULSE SERIES



## **GOOD-BYE, TRANSITION ARC**

Weld without spatter thanks to a stable and easy-to-control pulse arc

## **EXCEPTIONALLY VERSATILE**

The right short arc, pulsed arc or spray arc for any job

## **EFFORTLESS HANDLING**

Intuitive set-up, easy operation and minimum rework distinguish the MicorMIG Pulse as a favourite among welders



[www.lorch.eu](http://www.lorch.eu)

**LORCH**  
smart welding

# THE MICORMIG PULSE SERIES

**The easy start into the world of pulse welding with a thick advantage on thin sheets.**

Say good-bye to the transition arc. The MicorMIG eliminates tedious rework and saves you valuable time while changing the welding wire. Whether you are working with steel, stainless steel or aluminium – the pulse process is guaranteed to produce low-spatter welding results along the entire characteristic curve without any laborious rework.

- **Pulse arc.** Minimum rework. Easy to set up and robust, the pulse process integrated into the MicorMIG Pulse now lets you weld with next to no spatter especially in the transition arc. This cuts down the need for extensive rework and saves valuable time during a welding wire change. What is more, MicorMIG Pulse includes all of the well known functions packed into the MicorMIG series.
- **Enhanced performance thanks to MicorBoost.** Our MicorBoost technology affords you even greater effectiveness at a higher degree of efficiency when completing MIG-MAG welding tasks. Moreover, fast-action control technology provides for a perfect droplet transition of the pulse arc.
- **Upgradability.** It has never been easier to adjust a welding system to the constantly changing requirements in the welding industry and to add on welding processes, welding programs and features that will streamline your workflows.
- **Ready for Speed.** Take your productivity to the next level by adding the optional Lorch Speed processes "SpeedUp" and "SpeedArc" to your MicorMIG Pulse.
- **Quick-change system.** Even the easily accessible wire feeder of the MicroMIG reflects painstaking attention to the tiniest detail. The perfectly matched change system makes changing the sturdy and durable Lorch feed rolls a cinch. No need for even a single screw.



**+** Including all functions of the MicorMIG series

# MicorMIG



MIG Pulse

# Highlights

## Weld with next to no spatter – steel, stainless steel or aluminium

Welding in the transition arc range routinely results in ungainly weld appearance including plenty of spatter. The poor outcome, in turn, requires rework that costs both time and money. Until now, the sole solution to this problem involved frequent wire changes or the use of special gases.

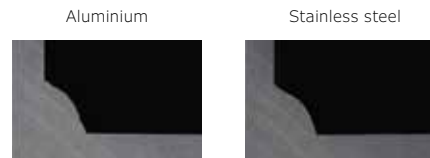


**Smart solution by Lorich:** No matter if you weld steel, stainless steel or aluminium. Tried and tested in the real world, the MicorMIG Pulse arc combined with quick-action control technology delivers welding performance with next to no spatter – even in the transition arc range, saving you a great amount of tedious rework.

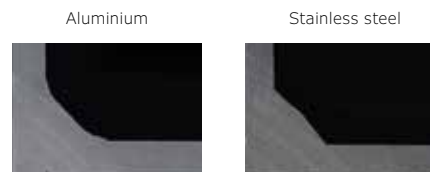


## Flawless seam appearance – even on aluminium and stainless steel

The quality of the sidewall fusion and of the seams welded on aluminium and stainless steel in the short arc range almost never conform to in-house standards. The consequence: Substandard quality along with time-consuming and costly rework.



**Smart solution by Lorich:** A spatter-free weld seam, smooth seam transitions and improved sidewall fusion. From now on, you will master this challenge with ease as well thanks to the MicorMIG Pulse arc and exceptional ease of use.



## Reduced temper colours on stainless steel welds

A great many welders striving for root coverage of the greatest possible accuracy during welding on stainless steel resort to a current intensity level that is much higher than actually necessary. The consequence are temper colours on stainless steel welds.



**Smart solution by Lorich:** Introducing a lower amount of energy into the workpiece, the MicorMIG Pulse arc reliably prevents any unnecessary temper colours. The MicorMIG Pulse arc, furthermore, reduces time-consuming and cost-intensive rework such as for the removal of temper colours to a minimum. To top it all off, the process delivers all that plus clean root coverage.



## Versions



	MicorMIG Pulse 300	MicorMIG Pulse 350	MicorMIG Pulse 400	MicorMIG Pulse 500
Welding range	A 25 – 300	25 – 350	30 – 400	30 – 500
Voltage adjustment	infinitely variable	infinitely variable	infinitely variable	infinitely variable
Mains connection 3~400 V	●	●	●	●
Mains connection 3~230 V	○	○	○	○
<b>Operating concepts</b>				
BasicPlus	●	●	●	●
ControlPro	●	●	●	●
<b>Cooling variants</b>				
Gas	●	●	●	●
Water	●	●	●	●
<b>Machine variants</b>				
Compact system	●	●	●	●
Wire feeder system	●	●	●	●
● Configuration options   ● Standard equipment   ○ Optionally available				

## Operating concepts



### BasicPlus

- "3 steps to weld" operating concept
- Infinitely adjustable welding current setting
- Digital volt-ampere display
- Activation of end crater filling as necessary
- 7-stage arc dynamic control
- Automatic setting control (synergy control)
- Welding program selection in the feed compartment
- Upgradability



### ControlPro

- "3 steps to weld" operating concept
- Infinitely adjustable welding current setting
- Digital volt-ampere display
- High-luminosity graphic display (OLED) for display of the 3<sup>rd</sup> main parameter
- Activation of end crater filling as necessary
- 21-stage arc dynamic control
- Automatic setting control (synergy control)
- Welding program selection in the feed compartment
- Tiptronic job memory for 100 welding tasks
- Upgradability

## Technical data

		MicorMIG Pulse 300	MicorMIG Pulse 350	MicorMIG Pulse 400	MicorMIG Pulse 500
Welding current MIG-MAG	A	25 – 300	25 – 350	30 – 400	30 – 500
Current at 100% duty cycle	A	200	250	300	370
Current at 60% duty cycle	A	250	300	370	430
Duty cycle I max.	%	45	45	45	45
Mains voltage	V	3~400	3~400	3~400	3~400
Permitted mains tolerance	%	± 15	± 15	± 15	± 15
Mains fuse, delayed action	A	32	32	32	32
Dimensions compact system (L × W × H)	mm	880 × 490 × 885	880 × 490 × 885	880 × 490 × 885	880 × 490 × 885
Dimensions wire feeder system (L × W × H)	mm	880 × 490 × 955	880 × 490 × 955	880 × 490 × 955	880 × 490 × 955
Weight – compact system, gas-cooled	kg	58	58	61	66
Weight – wire feeder	kg	10.6	10.6	10.6	10.6
Weight – water cooling (filled)	kg	13.0	13.0	13.0	13.0

## Performance comparison

	MicorMIG Pulse	S-Pulse XT	S-SpeedPulse XT
Pulse Steel	●	●	●
Pulse Multi-Material	○	●	●
TwinPuls	–	●	●
Pulse Dynamic Settings	–	–	●
SpeedPulse Welding	–	○	●
Control	U-I	I-I	I-I / I-U-I
Steel Performance	■ ■ ■ □ □	■ ■ ■ ■ □	■ ■ ■ ■ ■
Stainless Performance	■ ■ ■ □ □	■ ■ ■ ■ □	■ ■ ■ ■ ■
Aluminium Performance	■ ■ ■ □ □	■ ■ ■ ■ □	■ ■ ■ ■ ■
Speed	■ ■ ■ □ □	■ ■ ■ □ □	■ ■ ■ ■ ■
Long Seams	■ ■ ■ □ □	■ ■ ■ □ □	■ ■ ■ ■ ■
Welding Over Tack Welds	■ ■ ■ ■ □	■ ■ ■ □ □	■ ■ ■ ■ ■

■  Performance   
 ● Standard equipment   
  Optional

Your specialist Lorch dealer:

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