
# SETTING THE NEW STANDARD.

## The MicorMIG Mobile, MicorMIG & MicorMIG Pulse Range

Industry 4.0 Ready with Lorch Connect

LORCH CONNECT

MADE IN GERMANY

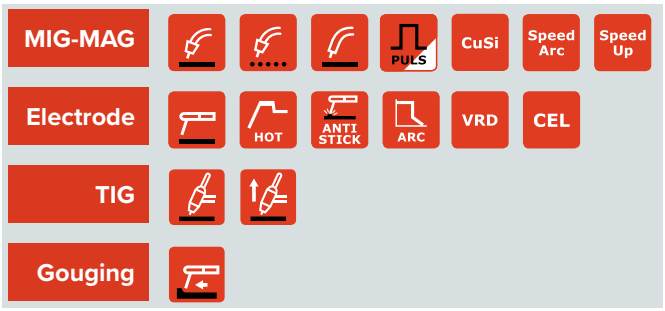
LORCH
smart welding

# The MicorMIG Mobile & MicorMIG Pulse Mobile at a glance

MicorMIG Mobile and MicorMIG Pulse Mobile, are the next generation of MicorMIGs, continuing to set a new standard. Two of the most technologically advanced MIG-MAG (GMAW) and FCAW systems on the planet with Speed Processes for both solid and flux cored wires. Additionally, they come with Industry 4.0 connectivity and big data management with Lorch Connect.

Cutting edge, resonance inverter technology with digital control, advanced high-speed welding processes to drive productivity, all combined with leading Near Field Communication (NFC) technology; the most effective way of managing welding quality in the workshop and out on site.

- **Upgradability**. A “Future Proof” platform. Never before has it been this easy to upgrade a welding machine to the ever-increasing challenges
- **Versatility**. Lorch’s MicorMIG Mobile sets a new standard with its exceptional MIG-MAG welding performance,
- **Dynamic control**. Select the arc characteristic you prefer. Depending on the operating panel you have selected,
- **Job management**. The ControlPro display with Tiptronic function makes it a snap to store welding procedures and retrieve and transfer them to other machines as required.




standard for all models

standard for certain models

# Operating concepts


**ControlPro**

- "3 steps to weld" operating concept
- Infinitely adjustable welding current setting
- Volt-ampere display
- High-luminosity graphic display (OLED) for display of the 3rd main parameter
- Convenient, intuitive menu guidance
- Can switch to crater filling (can be set in the submenu)
- 21-stage arc dynamic control
- With automatic setting control (synergic function)
- Welding program selection in the feed compartment
- Switch-over 2-stroke/4-stroke/spot welding/interval welding
- Tiptronic job memory for 100 welding tasks
- Fully upgradeable

| | MicorMIG Mobile 300 | MicorMIG Mobile 350 |
|---|---|---|
| **MIG-MAG** | | |
| - welding range (in A) | 25-300 | 25-350 |
| - voltage setting | infinitely variable | infinitely variable |
| **Duty Cycle (in amps)** | | |
| - duty cycle 45% | 300A | 350A |
| - duty cycle 60% | 250A | 300A |
| - duty cycle 100% | 200A | 250A |
| **Feeder and wire** | | |
| - wire feed unit | 4 rolls (2 driven) | 4rolls (2 driven) |
| - weldable wires steel (in mm) | 0.6-1.2 | 0.6-1.2 |
| - weldable wires aluminium (in mm) | 1.0-1.2 | 1.0-1.2 |
| - weldable wires steel Pulse (in mm) | 0.8-1.2 | 0.8-1.2 |
| - weldable wires aluminium Pulse (in mm) | 1.0-1.2 | 1.0-1.2 |
| - wire spool diameter | up to 300mm / D300, 200mm / D200 possible via adaptor | |
| **Mains** | | |
| - mains voltage (in V) | 400 | 400 |
| - phases (50/60 Hz) | 3~ | 3~ |
| - positive mains tolerance (in %) | 15% | 15% |
| - negative mains tolerance (in %) | 15% | 15% |
| - max. negative mains tolerance at reduced output power (in %) | 15% | 15% |
| - mains fuse (in Amps) | 16 | 32 |
| - mains plug | CEE16 | CEE32 |
| **Dimensions and weights** | | |
| - power source dimensions (LxWxH) (in mm) | 635x310x547 | 635x310x547 |
| - weight, power source gas-cooled (in kg) | 35 | 35 |
| **Standards and approvals** | | |
| - standard | EN 60974-01 | EN 60974-01 |
| - protection class (EN 60529) | IP23S | IP23S |
| - insulation class | F | F |
| - designation | CE, S | CE, S |


**A-system**

Compact power source with small external dimensons, including integrated wire feeder; can be customised with separately available accessories.

# The MicorMIG & MicorMIG Pulse series at a glance

MicorMIG, the next generation, setting the new standard. One of the most technologically advanced MIG-MAG (GMAW) and FCAW systems on the planet with Speed Processes for both solid and flux cored wires. Additionally, Industry 4.0 connectivity and big data management now with
Lorch Connect.

Cutting edge, resonance inverter technology with digital control, advanced high-speed welding processes designed to drive productivity combined with leading Near Field Communication (NFC) technology; the most effective way of managing shop floor welding quality.

Reliable, robust, simple to operate yet highly engineered examples of German quality and performance. At a superior price/performance point where switching to a modern, highly efficient welding system is simple, easy and makes good commercial sense.

MicorMIG a future proof platform, a simply better all-rounder for every application . . .

- **Industry 4.0 Connectivity** via a Lorch Connect Gateway to a cloud server unleashing a host of new digital management tools to optimize your welding processes, driving productivity, costing accuracy, quality and production efficiency.
- **Leading performance thanks to MicorBoost**. Like a turbo charger, MicorBoost technology stores and delivers extra power and voltage to deliver exceptional welding performance. Six micro-controllers monitoring1.5 million times per second deliver a very smooth and stable welding characteristic across the entire operating range.
- **Upgradability**. A “Future Proof” platform. Never before has it been this easy to upgrade a welding machine to the ever-increasing challenges posed by today’s industrial demands. It is now a breeze to upload welding processes, welding programs and functions with near field communication (NFC) technology.
- **Versatility**. Lorch’s MicorMIG sets the new standard with its exceptional MIG-MAG welding performance, MicorMIG is also capable of Stick with VRD, Lift TIG and Arc Gouging processes.
- **Dynamic control**. Select the arc characteristic you prefer. Depending on the operating panel you have selected, you can opt for dynamic levels that change the welding arc from “soft” to “hard”.
- **Synergic 1-knob control**. MicorMIG versions BasicPlus and ControlPro offer a large number of South Pacific optimised welding programs for various material, wire and gas combinations.
- **Ready for Speed**. Upgrade to the advanced wave form control processes to increase welding speeds and drive productivity with optional Lorch SpeedArc and SpeedUp processes.
- **Job management**. The ControlPro display with Tiptronic function makes it a snap to store welding procedures and retrieve and transfer them to other machines as necessary.
- **PushPull**. When combining the system with a PushPull torch you will expand your working radius up to 50 metres.


MADE IN GERMANY

3 YEARS INDUSTRIAL WARRANTY
LORCH
Conditions apply

LORCH MICORBOOST TECHNOLOGY

LORCH CONNECT

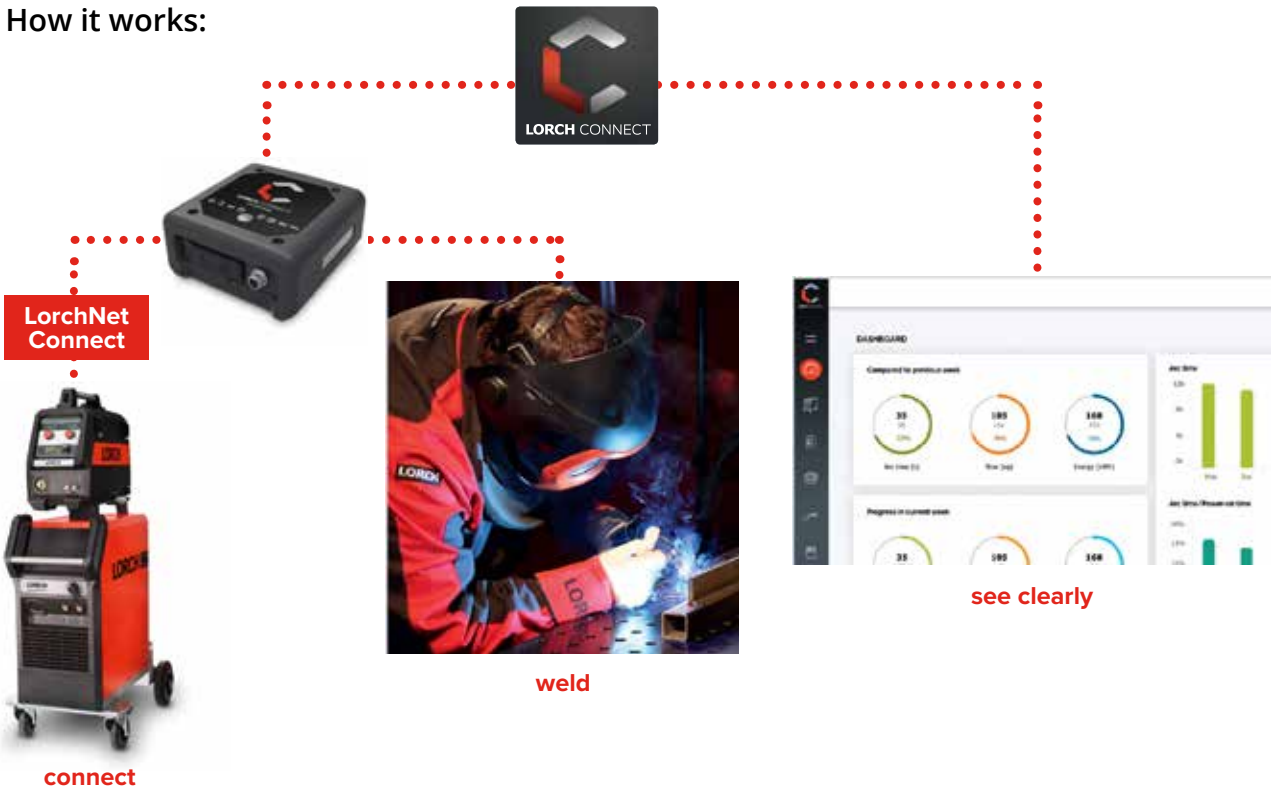
# LORCH Connect: Industry 4.0 - Digital Connectivity & Big Data Management

Everyone talks about Industry 4.0 and digitisation. Production becoming smarter. Processes monitored, documented and visualised in real time. The reason is simple: embedded in this data is untapped potential for process optimisation to drive cost and efficiency improvements.

Lorch is now taking the next step to connect our already digitalised welding systems in a simple and cost-effective way and create an immediate user benefit.

Lorch Connect – your easy – and risk-free – entry into a future Industry 4.0 digitally connected world of welding!

## How it works:




## The simple high-level summary dashboard of all connected systems.

Lorch Connect Gateway is fully Australia and New Zealand compliant and meets all relevant National and State level regulations: AS/NZS 3820:2020; AS/NZS 2772.2:2016 AMD 1:2018(*3); AS/NZS 62368.1:2018.

## The drill down capability into detailed individual system data.

### Online monitoring: Performance in numbers.

The dashboard represents the central feature / app of the Lorch Connect platform. It shows all key production indicators such as duty cycles, arc times or parameters in a quick and easy-to-understand manner. This offers a straightforward and convenient way for you to dentify the productivity of all connected systems.

**Your benefits:**
- Enhanced transparency of your welding processes
- Easier detection of deviations and errors
- Improved predictability of production control
- Uncovering of productivity potentials
- More accurate calculation of orders
- Process optimisation for repeat orders

### Cost controlling: Paying off in the end.

How profitable was an order or specific component? The answer to this question is held by the cost controlling tool. This tool automatically adds up all consumption figures and monetises them. The basis for the calculation is formed by your individual master data and includes such information as the prices of different welding wires and gases, the cost of energy and the labour costs associated with your welders. The result is a calculation of profitability that is comprehensive and dependable.

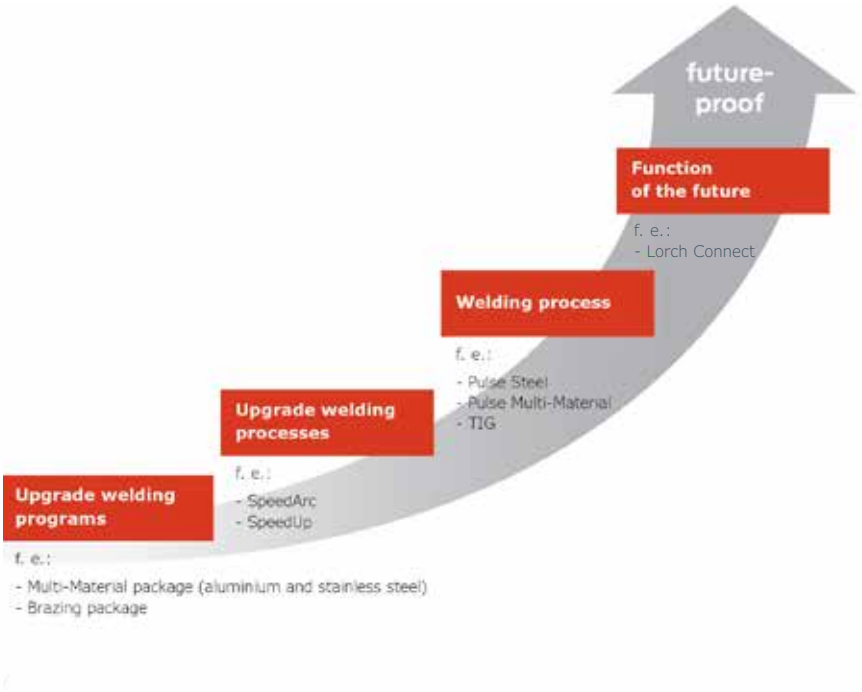
**Your benefits:**
- Quick visualisation of the actual cost
- Effortless recalculation of orders
- More realistic calculation of quotes for comparable orders
- Cost optimisation for recurring components

### Documentation: all essential data in one location.

The Lorch Connect Gateway records each individual weld seam along with all data that may be relevant to production and passes this information on automatically to the Lorch Connect Portal. At this portal, all weld seams are documented with their associated parameter values. The real-world advantage: You can now draw important conclusions from such individual, process-defining parameters as current and voltage and apply them to the quality of the seam or the compliance with welding procedure specifications.

**Your benefits:**
- Easier detection of deviations and abnormalities in each specific weld seam
- Traceability in the event of complaints thanks to simple search options
- Effortless export of all weld seams for advanced analyses in Excel

# Highlights
## Unlimited upgradability comes standard


Conventional transformer and basic inverter systems will stay the way they were designed and manufactured. Their expandability and functional scope are limited by their hardware. Not so with the MicorMIG. When you opt for this system, you will remain perfectly flexible thanks to the upgradabilty and modular design of its fully digital control inverter technology and feedback control systems. The level of flexibility lets you enjoy both customised solutions that are tailored to accomplish your company's welding tasks and the assurance that you will keep benefiting from any future advances in technology. It has never been easier to adjust a welding system to the constantly changing requirements in the welding industry using NFC technology and to add on welding processes such as pulsed arc welding (BasicPlus and greater), welding programs and features that will streamline your workflows. It is even possible to upgrade and retrofit the operating panels of the MicorMIG series. The purchase of a MicorMIG system translates to progress. Both at the time of purchase and the time thereafter. You add the functionality you need precisely when you need it. The MicorMIG allows you to be and remain on the safe side and to look forward to what the future holds in store.

### 3 steps to achieve weld perfection

1. Select process / operating mode
2. Adjust welding current
3. Fine-tune arc characteristics

# Versions

| | | MicorMIG 300 | MicorMIG 350 | MicorMIG 400 | MicorMIG 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 | | ● | ● | ● | ● |
| **Operating concepts** | | | | | |
| BasicPlus | | ● | ● | ● | ● |
| ControlPro | | ● | ● | ● | ● |
| **Cooling variants** | | | | | |
| Gas | | ● | ● | ● | ● |
| Water | | ● | ● | ● | ● |
| **Machine variants** | | | | | |
| Compact system | | ● | ● | ● | ● |
| Wire feeder system | | ● | ● | ● | ● |

● Standard equipment ● Configuration options

# 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 3rd 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

# Advanced high speed process capability

**SpeedArc – Deeply impressive. Up to 30% faster welding speeds are possible. Now available for Solid,Metal Coore and Rutile Flux Core Welding.**

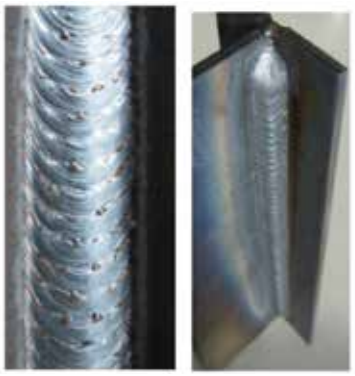
SpeedArc is an advanced new process that has a highly focused and incredibly stable arc combined with high energy density that stands head and shoulders above the conventional MIG, Metal Core and Flux Core welding processes.

Delivering a much deeper penetration into the base material across the entire operating range, a level of penetration to which ordinary MIG-MAG machines simply cannot measure up. The higher arc pressure that flows into the weld pool drives this deeper penetration and ability to run at a longer stick out length.

SpeedArc adds a significant speed boost to conventional MIG-MAG welding across the entire operating range, making it noticeably faster, much easier to control and, consequently, much more economical.

**SpeedUp – Vertical-up welding has never been so easy or fast**

Up to now, vertical up welding required a tremendous amount of experience, skill and a steady hand to weld in the conventional 'Christmas tree' style. The SpeedUp option on the MicorMIG series of machines turns vertical up welding into just that - a simple, straight up weld, with no weaving required.



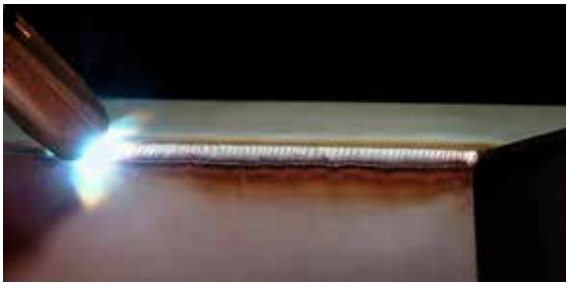
A sample of the ingeniously simple SpeedUp.

**MicorTWIN – The perfect TIG like appearance.**

An attractive weld appearance is often valued highly when welding thin to medium materials up to 8mm especially in areas with visible weld seams. The TIG welding method used to be used here in the past due to its ability of producing beautiful weld seams with an even and uniformed pattern. The MIG-MAG welding process is now able to do the same!

This makes the process simpler in many areas. The perfect weld appearance can be produced easily, time and again, and by anyone. When compared to TIG the welding speed is also substantially faster.

**Note**: MicorTWIN process is only possible on MicorMIG Pulse power supplies.



# Highlights
## Clever details for improved everyday welding

**Quick-change system**

Even the easily accessible wire feeder of the MicorMIG reflects 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.

**Colour-coded feed rolls**

Never pick up the wrong rolls again. Lorch's colour-coded feed rolls of the MicorMIG series represent different wire diameters and make every welder´s life much easier.

**Synergic pre-selection - where it should be**

MicorMIG versions BasicPlus and greater offer a large number of welding programs for various material, wire and gas combinations. Depending on the design of your machine, you can set the programs at the wire reel in the wire feed compartment of the compact system or the wire feeder case.

**Top tier electrode welding**

A MIG-MAG system that can also handle electrodes. Simply remove the torch, connect the additional electrode holder to the electrode socket, and select electrode welding on the operating panel.

**Heavy-duty undercarriages**

Wherever the manufacturing process calls for crane transport of heavy components or the machine itself to the workstation, a robust and dependable welding system is of paramount importance. The long-lasting industrial housing of the Lorch MicorMIG and its optional heavy-duty undercarriages were designed specifically for applications of this nature.

The outcome is a system that delivers perfect dependability even under the most trying conditions. Customise your Lorch heavy-duty undercarriage and tailor it to your heavy-duty needs. Even when required to handle inter-connection hose packages with a length of 20m, the Lorch heavy-duty undercarriage plus MicorMIG and the optional large inter-connection hose package holder remains perfectly tilt-proof and stable.

# Specifications

| | | MicorMIG 300 | MicorMIG 350 | MicorMIG 400 | MicorMIG 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 (LxWxH) | mm | 880 x 400 x 755 | 880 x 490 x 855 | 880 x 490 x 855 | 880 x 490 x 855 |
| Dimensions wire feeder system (LxWxH) | mm | 880 x 490 x 890 | 880 x 490 x 955 | 880 x 490 x 955 | 880 x 490 x 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 |

# Equipment

| | MicorMIG |
|---|---|
| **Welding process** | |
| Standard synergy MIG-MAG welding programs | ● |
| Pulse Steel | ❍ |
| Pulse Multi-Material | ❍ |
| SpeedArc | ❍ |
| SpeedUp | ❍ |
| Electrode Plus | ❍ |
| TIG (with ContacTIG) | ❍ |

● Standard equipment ❍ Optionally available

# The full-protection wire feeder MF-08
## Robust and exceptionally stable.


The MF-08 provides every welder with exactly the wire feeder case he can expect – and much more. Made of high-performance plastic, the housing of this fully protected feeder case offers one thing first and foremost apart from stability and robustness: Safety.

In contrast to conventional cases made of metal, the MF-08 is fully insulated and, thus, uniquely capable of handling applications that rank among the trickiest and most challenging from a technical standpoint.
The MF-08 – a genuine safety advantage for every business.

### At a glance

- **Exceptional flexibility**. For extended range and a maximum of comfort and mobility.
- **Stable**. The wire feeder case is solidly mounted on the power source and can be swivelled.
- **Extremely robust and protected against falls**. Even if experiencing a fall from a height of 60cm.
- **Illuminated wire feeder compartment**. This makes changing the wire a breeze even in poor light conditions.
- **A genuine lightweight in its class**. Only 10.6kg net weight.
- **A perfect grip**. Several convenient handle options.
- **Suitable for use in manholes**. Can be handed in and out of manholes with no effort at all.
- **Versatile**. Fixture for hanging it from a boom or position it overhead.

# The full-protection, ultra-compact wire feeder MF-10
## Light and highly portable.


### Light and compact pays off.

- **Compact design.** Ideally suited for tight places and access through small manholes.
- **Ultra light**. Highly portable with its low weight of only 10.3 kilograms.
- **Fully insulated**. Designed to work sitting directly on conductible materials.
- **Quick disconnect fittings**. Heavy-duty cable harness assembly and strain relief on rear to lower feeders by the cable.
- **Easy to move**. Large carry handle with optimum centre of gravity for easy handling.
- **4 roll drive system**. Heavy duty 4 roll drive system with 200mm diameter wire spools inside LED illuminated case.

# Technical data

| | | MF-08 | MF-10 |
|---|---|---|---|
| Feeder speed | m/min | 2.0 - 25.0 | 2.0 - 25.0 |
| Drive / feeder | | 4 roll / tacho-regulated motor / digital speed feedback | |
| Suitable for use in manholes | cm | > 42* | > 35* |
| Fully insulated | | ● | ● |
| Flowmeter gas | | ❍ | ❍ |
| Dimensions (L x W x H) | mm | 575 x 245 x 434 (380#) | 620 x 245 x 310 |
| Weight (net) | kg | 10.6 | 10.3 |

● Standard equipment ❍ Optionally available * Oval manhole with handle removed # Height with handle removed

# Highlights MF-08
# Surprisingly simple - and accessible from both sides

One important aspect as to how well a compact wire feeder case with manhole suitability will fare during everyday use is the ease with which you can insert the wire reel. The slightly slanted wire reel and side covers that swing open and lock into place allow for easy access to the compartment, especially in the top portion of the unit. As an added benefit, the other side of the feeder case can be opened as well. The electronic system and the motor are protected and covered in such a way that you are afforded convenient access to all connections of the hose package.

The locking mechanism and the strain relief device of the inter-connection hose package can be replaced by the welder themselves or, if necessary, be transported separately from the case. Better still, this step is completely straightforward and safe and does not require any contact with the sensitive area.

# Equipped to handle all types of applications
# Optionally available:


Heavy-duty undercarriage kit


Protection cage with tube frame


Heat protection skids


Boom suspension

# Whether upright or horizontal - easy to control in every position

Every range of application poses its own challenges. Sometimes you wish for a horizontal case while some tasks require a vertical case.

MF-08 offers you both options: it can be used upright or in a vertical position. This is thanks to the sturdy and distinctive support feet found on the side. If you need the case to be permanently horizontal you can have the operating panel built in and rotated by 90°. You will always carry the fully protected case with ease in the upright position. This is what we call flexibility or plain “convenience”.

# The MicorMIG Pulse series at a glance

- **Pulse arc.** All the features of the MicorMIG plus the addition of a Pulse Arc transfer with the MicorMIG Pulse range.
- **Minimum rework**. Easy to set up and robust, next to no spatter. This cuts down the need for extensive post weld rework.


## Equipment

| | MicorMIG |
|---|---|
| **Welding process** | |
| Standard synergy MIG-MAG welding programs | ● |
| Pulse Steel | ● |
| Pulse Multi-Material | ❍ |
| SpeedArc | ❍ |
| SpeedUp | ❍ |
| Electrode Plus | ❍ |
| TIG (with ContacTIG) | ❍ |

● Standard equipment ❍ Optionally available

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3 YEARS INDUSTRIAL WARRANTY LORCH
Conditions apply

MICORBOOST TECHNOLOGY

LORCH CONNECT

## Versions

| | | MicorMIG 300 | MicorMIG 350 | MicorMIG 400 | MicorMIG 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 3~400 V | | ❍ | ❍ | ❍ | ❍ |
| **Operating concepts** | | | | | |
| BasicPlus | | ● | ● | ● | ● |
| ControlPro | | ● | ● | ● | ● |
| **Cooling variants** | | | | | |
| Gas | | ● | ● | ● | ● |
| Water | | ● | ● | ● | ● |
| **Machine variants** | | | | | |
| Compact system | | ● | ● | ● | ● |
| Wire feeder system | | ● | ● | ● | ● |

● Configuration options ● Standard equipment ❍ Optionally available

# Highlights

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

All in a day's work of every welder: 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.

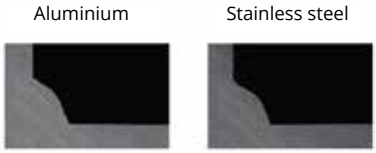
**Smart solution by Lorch**: No matter if you weld steel, stainless steel or aluminium. Tried and tested in the real world, the MicorMIG Pulse arc combined with quick-action control technology delivers welding performance with next to no spatter – even in the transition arc range, saving you a great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

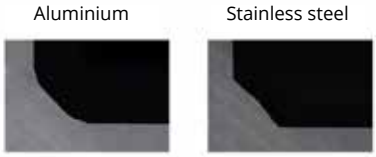


## Flawless seam appearance – even on aluminium and stainless steel

All in a day's work of every welder: 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 Lorch**: A spatter-free weld seam, smooth seam transitions and improved sidewall fusion. From now on you will master this challenge as well, thanks to the MicorMIG Pulse arc and exceptional ease of use.




## Reduced temper colours on stainless steel welds

All in a day's work of every welder: 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 Lorch**: Introducing a lower amount of energy into the workpiece, the MicorMIG Pulse arc reliably prevents any unnecessary temper colours. The MicorMIG Pulse arc also 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.



## End crater filling

Step-controlled systems commonly create a sink mark at the end of the weld seam, the so-called end crater. The MicorMIG provides you with an easy and reliable solution to the problem of maintaining the same quality along the entire weld seam – especially at the end. The operating panel offers a quick and easy way to enable the quality feature "crater filling". Instead of being terminated abruptly, the welding current is reduced in a well-controlled manner. The MicorMIG allows you to achieve a seam appearance that will leave nothing to be desired.

Without crater filling

With crater filling - perfect end of weld seam.

# 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 3rd 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 300 | MicorMIG 350 | MicorMIG 400 | MicorMIG 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 (LxWxH) | mm | 880 x 400 x 755 | 880 x 490 x 855 | 880 x 490 x 855 | 880 x 490 x 855 |
| Dimensions wire feeder system (LxWxH) | mm | 880 x 490 x 890 | 880 x 490 x 955 | 880 x 490 x 955 | 880 x 490 x 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 |

# The Lorch LMS Performance torch at a glance

- **Perfect ergonomics. Professional welders have already confirmed: the outstanding torch ergonomics is setting new standards in practice.** With this perfectly balanced torch, we are giving welders a tool that meets the highest ergonomic demands and offers unmatched levels of comfort.
- **Excellent performance. The LMS torch will get the best out of your Lorch system.** Clean and constant welding results are a matter of course. Even in welding aluminium and stainless steel. Our ambition leads to your perfect weld system.
- **Maximum productivity. Lorch welding technology right to the contact tip.** Resulting in ultra clean weld seams, barely any rework, less costs due to less part wear and gas consumption, and happier higher-performing welders. Keep your welding production going and the costs at hand.
- **Sustainable welding. To us, sustainability starts with product design.** First of all the torch is built to be easily serviced and repaired if necessary. All parts and wear parts are aligned with highest quality. The whole torch system is designed to reduce the thermal strain and results significantly longer lifetime of the consumables. The environmentally friendly packaging is a matter of course.

### LMS Standard

- Heavy duty construction
- Ergonomic shape
- Air & Water cooled
- Up to 5 metre length


### LMS Powermaster

- Heavy duty construction
- Ergonomic shape
- Smart remote control
- Air & Water cooled
- Up to 5 metre length

# Technical data

## LMS Standard

| Version | | LMS 250 G | LMS 350 G | LMS 320 W | LMS 400 W | LMS 420 W | LMS 500 W |
|---|---|---|---|---|---|---|---|
| Cooling type | | Gas | Gas | Water | Water | Water | Water |
| Stress mixed gas | A | 250 | 350 | 320 | 400 | 420 | 500 |
| Duty cycle (DC)* | % | 40 | 40 | 100 | 100 | 100 | 100 |
| Wire Ø | mm | 0.8 – 1.2 | 0.8 – 1.2 | 0.8 – 1.2 | 08 – 1.6 | 0.8 – 1.6 | 0.8 – 1.6 |
| Front end size | | L8 | L10 | L8 | L8 | L10 | L10 |
| Hose package lengths | m | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 |

## LMS Powermaster

| Version | | LMS 250 G PM | LMS 350 G PM | LMS 320 W PM | LMS 400 W PM | LMS 420 W PM | LMS 500 W PM |
|---|---|---|---|---|---|---|---|
| Cooling type | | Gas | Gas | Water | Water | Water | Water |
| Stress mixed gas | A | 250 | 350 | 320 | 400 | 420 | 500 |
| Duty cycle (DC)* | % | 40 | 40 | 100 | 100 | 100 | 100 |
| Wire Ø | mm | 0.8 – 1.2 | 0.8 – 1.2 | 0.8 – 1.2 | 08 – 1.6 | 0.8 – 1.6 | 0.8 – 1.6 |
| Front end size | | L8 | L10 | L8 | L8 | L10 | L10 |
| Hose package lengths | m | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 | 3\|4\|5 |

*** for Pulsed Arc**

The LMS is compatible with the following Lorch MIG-MAG systems:
S-Series, P-Series, MicorMIG and MicorMIG Pulse-Series.

# Notes

MicorMIG Mobile, MicorMIG & MicorMIG Pulse Range • 5.25

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