

The X & MX Series

FLEXIBLE MOBILE WELDING SOLUTIONS.



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LORCH
smart welding

Overview

MADE IN GERMANY



A new world-leading generation of inverter technology. Multi-process machines that are smaller, lighter and more powerful with superior welding performance all thanks to resonance with MicorBoost technology.



The X series at a glance



- **Enhanced performance thanks to MicorBoost.**
Fully resonant welding inverter. Superior best in class welding performance.
- **Designed for extreme applications.** IP34 outside rating, its low weight, compact external dimensions and protection against falls from a height of up to 60cm make the X series the model that is best suited for industries such as construction, pipelines, mining, maintenance and repair.
- **Multi-talented.** The Lorch X 350 is always the perfect choice when you need to weld with basic, rutile and special electrodes that have a diameter of up to 8mm or need a tool that can handle vertical down-welding operations with cellulose electrodes (CEL). What is more, ContactTIG allows you to perform TIG welding operations using direct current. CV selection allows for use with MIG/FCAW case wire feeders.
- **Dependable.** When using MicorBoost technology, you can rest assured that your machine will deliver perfect arc starting and produce a smooth, stable arc even when operated on long mains cables with a length of up to 200 metres, or hooked up to a generator.
- **Gouging.** The Lorch X 350 also handles gouging applications without a hitch.



Advanced features

- **CC and CV curve for MIG-MAG welding.**
The Lorch X 350 can also be used with semi-automatic MIG-MAG wire feeder cases.
- **Hotstart.** Thanks to the adaptive automatic Hotstart feature, you can always count on perfect ignition.
- **Anti-Stick System.** The Anti-Stick system prevents the electrode from sticking, especially useful for positional welding.
- **Arc-Force regulation.** Arc-Force regulation supports the welding process with increased arc stability and optimised metal transfer.
- **Mobile.** Thanks to its low weight the Lorch X 350 preserves your mobility and flexibility no matter where your work takes you.
- **Remote control.** The Lorch X 350 can now also be controlled using an optional hand or foot remote control.
- **Polarity change function.** The PST variant of the Lorch X 350 includes a helpful polarity change function. This feature eliminates the need for exchanging the electrode and welding return cable in at a different socket as both the machine and the remote control let you effortlessly reverse the polarity (DCEN-DCEP).

Versions

	X350 BasicPlus	X350 ControlPro	X350 ControlPro PST
Welding range	A 10 – 350	10 – 350	10 – 350
Mains connection 3~400 V	●	●	●
Operating concepts			
BasicPlus	●	–	–
ControlPro	–	●	●
Equipment			
CEL-capable electrode welding inverter, electrode pre-selection and TIG function	●	●	●
Special vertical seam and pulse welding function	–	●	●
Used with semi-automatic MIG-MAG wire feeder cases	●	●	●
Integrated polarity reversal technology (PST)	–	–	●

● Standard equipment

Operating concepts



BasicPlus

- “3 steps to weld” operating concept
- Infinitely variable current setting
- Exact-ampere digital display
- Electrode pre-selection (basic, rutile and CEL) for optimum welding parameters
- Hotstart can be set in submenu
- TIG-DC welding function (with ContacTIG)
- Can also be used with semi-automatic MIG-MAG wire feed cases (CV curve) perfect welding performance



ControlPro

- “3 steps to weld” operating concept
- Infinitely variable current setting
- Exact-ampere digital display
- Electrode pre-selection (basic, rutile and CEL) for optimum welding parameters
- Quick access to Hotstart
- TIG-DC welding function (with ContacTIG)
- Special function for electrode vertical seam welding
- Pulse function
- Can also be used with semi-automatic MIG-MAG wire feed cases (CC and CV curve)
- Also available as PST variant with polarity reversal / change function

Highlights

Protected all-around against water entry – protection category IP34

The X is equipped with everything you might need for operation outside of the warm workshop: compact dimensions, protection against falls from a height of up to 60cm, all around protection against water splashes, excellent shielding against dust and foreign particle infiltration.

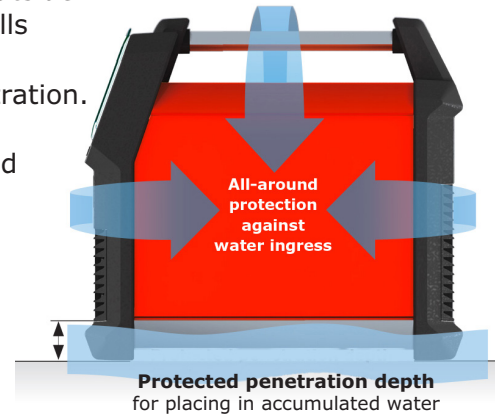
In addition a special base construction, enabling a sufficient ground clearance as well as a stable platform. The robust base plate guarantees a long service life.



Robust **base plate**



Replaceable **dust filter**



Electrode vertical seam welding

You no longer have to swing back and forth, but can simply guide the electrode straight up.

Thanks to patented control technology, the MicorBoost feature always provides sufficient power to keep the arc ignited and stable.

What is more, it does away with the need to weld in two passes, as one pass with a large electrode will often suffice.



Protection against falls

The statistics state: Every machine is dropped at least 4 times during its life time and this is under normal operating conditions. In extreme use, the danger increases and also the probability of a drop.

The normal standard required: Unit must be capable of surviving a free fall from a height of 25cm. Falls from a greater height usually render the unit broken and unusable. Not so with our products. We have designed a special crash protection for the X. The result is impressive: with a fall protection from up to 60cm height.



Technical data

		X350	X35 PST
Welding process		Electrode TIG	Electrode TIG
Electrode Ø	mm	1.6 - 8.0 CEL up to 6.0	1.6 - 8.0 CEL up to 6.0
Weldable material		Steel, stainless steel	Steel, stainless steel
Welding range	A	10 - 350	10 - 350
Duty cycle I max. (40°C)	%	35	35
Current at 60% duty cycle (40°C)	A	280	280
Mains voltage	V	3~400	3~400
Dimensions (L x W x H)	mm	515 x 185 x 385	515 x 185 x 385
Weight	kg	18.6	20.2

The MX 350 at a glance

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- **MIG-MAG welding function.** Including option to activate MIG-MAG synergic mode separately to guarantee outstanding MIG-MAG welding characteristics for both mixed gas and CO₂.
- **Multi-process.** When combined with a separate wire feeder case MF-07, the Lorch MX 350 is an ideal choice as a MIG-MAG welding system for use on the go. Better yet, it is also suitable for TIG, electrode and CEL welding and can be adapted to a wide range of applications.



- **Enhanced performance thanks to MicorBoost.** As soon as the current is reduced due to external disruptions, significantly higher voltage reserves are then activated. The result is welding performance that leaves nothing to be desired.
- **Wear-resistant.** Its robust housing that offers all-around protection against water entry and falls from a height of up to 60cm make the Lorch MX 350 the best machine you can choose for your mobile applications in the field. As an added bonus, the circuit boards are shielded from dust by InsideCoating, specialised protection layer.
- **Gouging.** Apart from electrode welding, the Lorch MX 350 also handles gouging applications without a hitch.
- **Dependable.** When applying MICOR technology, you can rest assured that your machine will ignite in reliable fashion and produce a stable arc even when operated on power mains cables with a length of up to 200 metres or when hooked up to a generator.
- **Electrode welding function.** Electrode welding with Hotstart, Anti-Stick and Arc-Force regulation. The automatic Hotstart feature guarantees perfect ignition every time, while the Anti-Stick system reliably prevents the electrode from sticking, and Arc-Force regulation supports the welding process by providing for increased arc stability and optimised metal transfer.

Moreover, the Lorch MX 350 allows you to complete vertical down-welding operations using cellulose electrodes with perfect reliability.

Versions

MX350 BasicPlus	
Welding range	A 10 – 350
Mains connection 3~400 V	●
Operating concepts	
BasicPlus	●
Equipment	
MIG-MAG Synergic	●
DC-TIG (with ContacTIG)	●
Electrode welding (including CEL)	●
Wire feeder case MF-07 with 4-roll drive	●
Inter-connection hose package with different lengths	●

● Standard equipment ● Standard equipment

Operating concept



BasicPlus

- “3 steps to weld” operating concept
- Exact-ampere digital display
- MIG-MAG: Option to select synergic-controlled characteristic curves; operating mode: 2-stroke/4-stroke
- Advance selection of electrode for optimum results
- Hotstart can be set in submenu
- Can switch to TIG function
- Remote control connection
- Electrode pulse function

Highlights

Everything you need, perfectly stowed

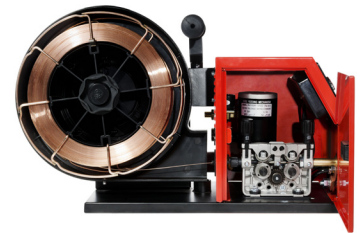


Wire feeder case, custom fit above the MX350.

Maxi-Trolley XL, the ultimate transport trolley.

The MF-07 – simple, convenient and robust

When combined with the separate wire feeder case MF-07, the MX350 is also an excellent MIG-MAG welding system suitable for use on the go. The MF-07 is designed in such a way that you can handle any task ranging from sheet metal welding to medium and heavy steel work. And, to ensure that you stay 'wired' while completing your welding job, your feeder is equipped for the use of K 300 wire reels.



3 steps to weld

1. Select process / characteristic curve (e.g. MIG-MAG synergic)
2. Operating mode: 2-stroke, 4-stroke, crater filling on/off
3. Fine adjustment wire feed



Technical data

	MX 350	
Welding process	MIG-MAG Electrode TIG	
Welding range	A	10-350
Weldable wires, steel Ø	mm	0.8 - 1.2
Weldable wires, aluminium Ø	mm	1.0 - 1.2
Weldable wires, CuSi Ø	mm	0.8 - 1.2
Current at 100% duty cycle (40°C)	A	230
Current at 60% duty cycle (40°C)	A	280
Duty cycle I max. (40°C)	%	35
Mains voltage	V	3~400
Mains tolerance	%	+25/-40
Mains fuse	A	25
Dimensions (L x W x H)	mm	515 x 185 x 400
Weight	kg	18.6

	MF-07	
Feeder speed	m/min	2.0 - 15.0
Drive/feeder	4-roll/ tacho-regulated motor/ digital speed feedback	
Lengths of inter-connection hoses	m	5 10 15
Dimensions (L x W x H)	mm	480 x 200 x 270
Weight	kg	10

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