

The MicorTIG & MicorStick series

THE NEW STANDARD IN PORTABLE WELDING MAINS. GENERATOR. BATTERY.



Overview

Lorch, world-leading, new, all in one resonance technology that enables the next generation of portable machines to operate from mains supply, small generators and batteries all delivering a perfect Stick and TIG welding performance.



The MicorTIG series at a glance

- **Portable TIG welding inverter.**
Mobile and compact 200 DC TIG welding machine with MicorBoost technology, non-contact high-frequency ignition and electrode welding function.
- **Total flexibility.**
Completely independent thanks to All-in technology for mains supply, generator and battery.



- **Powerful.** The built-in Power Factor Correction Module (PFC) provides for an optimum mains load as well as full capacity during 230 V mains operation.
- **Graphical display with job memory.** The MicorTIG 200 ControlPro offers a clearly structured user interface that makes controlling the machine fully intuitive.
- **Pulse and fast pulse.** The integrated pulse function with up to 5 kHz is exceptionally well-suited for welding thin sheets.
- **Safety.** Bearing the IP23 and S-symbol, the series is ideal for outside field applications.
- **Robust and protected against falls from a height of up to 80 cm.** Thanks to its specially designed crash protection the MicorTIG 200 DC is sure to survive a fall from heights of up to 80cm completely unscathed. Should you accidentally drop your welding machine or allow it to fall off the workbench, you can simply power through and keep working.
- **Remote control at the torch.** No more need to switch back and forth between workpiece and machine. The optional Powermaster torch puts all key welding parameters right at your fingertips, i.e. on the handle.
- **Energy efficient.** The MicorTIG utilises cutting-edge industrial electronics and on-demand technology to achieve a superior level of efficiency and exceptionally low power consumption.

Versions

MicorTIG 200 DC Accu-ready		MobilePower
Welding range	A 5 – 200	Battery pack with lithium-ion technology can be connected to MicorTIG 200 DC
Mains connection 1~230 V	●	
Operating concepts		
BasicPlus	●	
ControlPro	●	
Equipment		
Accu-ready: All-in technology for mains supply, generator and battery	●	
PFC module for optimum mains load	●	
High-frequency ignition (HF), gas management and electrode welding function	●	
● Configuration options ● Standard equipment		

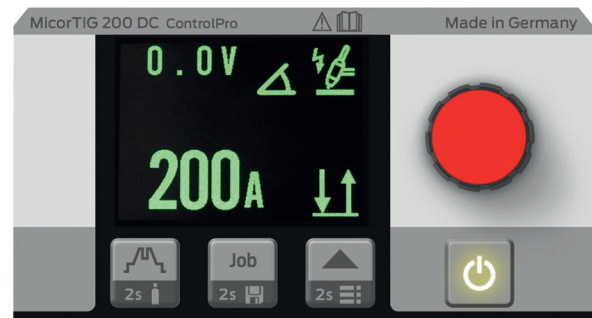


Operating concepts



BasicPlus

- HF ignition
- Pulse function with up to 5 kHz
- Exact-ampere digital display
- Infinitely variable current setting
- Menu for setting the auxiliary parameters
- Electrode pre-selection for Standard and CEL
- Switch 2-stroke/4-stroke
- Remote control connection
- Possibility for connection of the Lorch Powermaster remote control torch



ControlPro

- Menu navigation via detailed welding sequence control
- HF ignition
- Pulse function with up to 5 kHz
- Job memory for 10 welding tasks
- Exact-ampere digital display
- Infinitely variable current setting
- Electrode pre-selection for Standard and CEL
- Switch 2-stroke/4-stroke
- Remote control connection
- Possibility for connection of the Lorch Powermaster remote control torch

Technical data

MicorTIG 200 DC Accu-ready			
Welding process		TIG	Electrode
Electrode Ø	mm	1.0 - 4.0	1.5 to 4.0
Weldable material		Steel, stainless steel, copper	Steel, stainless steel
Welding range	A	10 - 350	10 - 350
Duty cycle I max. (40°C)	%		25
Current at 60% duty cycle (40°C)	A		150
Mains voltage	V		1~230
Dimensions (L x W x H)	mm		360 x 130 x 215
Weight	kg		6.8

The MicorStick series at a glance

MADE IN GERMANY



- **Electrode welding inverter.** CEL-capable, fully resonant welding inverter with MicorBoost technology, electrode pre-selection and TIG function. Suitable for connection to cables with a length of up to 200m and for generator operation.

- **Compact.** The low weight and compact dimensions of the Lorch MicorStick series make it easy to work with just the way you want especially in the most confined spaces.



- **Multifunctional.** The Lorch MicorStick series always offers you the right tool whether you need to weld with basic, rutile or even special electrodes. Better still, it provides long duty cycles, high power reserves and the possibility of TIG welding with ContacTIG ignition of even the most difficult electrodes.
- **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 control.** Supports the welding process with increased arc stability and optimised metal transfer.
- **Dependable.** Even when powered by a generator and hooked up to primary cables with a maximum length of 200m, the Lorch MicorStick strikes up reliably and remains incredibly stable.
- **Robust and protected against falls from a height of up to 80cm.** Thanks to its specially designed crash protection the Lorch MicorStick is sure to survive a fall from heights of up to 80cm completely unscathed.

Should you accidentally drop your welding machine or allow it to fall off the workbench, you can simply power through and keep working.

- **Energy-efficient.** The Lorch MicorStick series truly shines when it comes to high efficiency and low energy consumption thanks to its integrated state-of-the-art industrial electronics and fan-on demand technology.
- **Cutting-edge inverter technology.** This resonance technology with digital control allows the inverter to combine perfect welding results with superior ease of use.
- **Mobile.** Boasting a remarkably low weight and compact external dimensions, our Lorch MicorStick is one of the most portable welding machines money can buy.
- **Safety.** IP23 and S-symbol together with VRD makes the series ideal for applications in the field.

Versions

		MicorStick 160	MicorStick 180	MicorStick 160/125 VRD	MobilePower
Welding range	A	160	180	160/125	Battery pack with lithium-ion technology can be connected to all MicorStick systems.
Weldable electrodes up to Ø	mm	4	4	4	
Mains connection 1~230 V		●	●	-	
Operating concepts					
BasicPlus		●	-	-	
ControlPro		●	●	●	
ControlPro RC		-	●	-	
Equipment					
Accu-ready: All-in technology for for mains supply, generator and battery		●*	●	●	
Version with remote control connection		-	●	-	
PFC module for optimum mains lead		-	●	-	
Pulse function		-	●	-	

*in combination with ControlPro ● Configuration options ● Standard equipment



Operating concepts



BasicPlus

- “3 steps to weld” operating concept
- Simplest one-button operation
- Infinitely variable current setting
- Electrode pre-selection for Standard and CEL for optimum welding parameters
- TIG-DC welding function (with ContactTIG)



ControlPro

- “3 steps to weld” operating concept
- 7-segment display, exact to the amp
- Simplest one-button operation
- Infinitely variable current setting
- Electrode pre-selection for Standard (basic and rutil) and CEL for optimum welding parameters
- TIG-DC welding function (with ContactTIG)
- Submenu for custom adjustments of the system settings

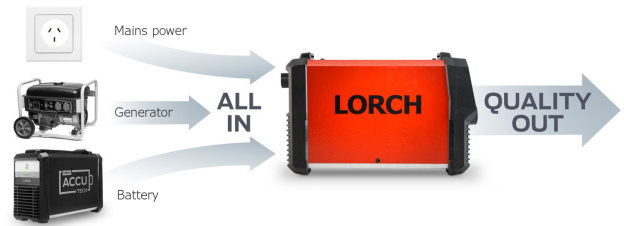
Technical data

		MicorStick 160 Accu-ready		MicorStick 180 Accu-ready		MicorStick 160/125 VRD	
Welding process		Electrode	TIG with ContactTIG	Electrode	TIG with ContactTIG	Electrode	TIG with ContactTIG
Electrode Ø	mm	1.5 - 4.0	1.0 - 2.4	1.5 - 4.0	1.0 - 2.4	1.5 - 4.0	1.0 - 2.4
Weldable material		Steel Stainless steel	Steel Stainless steel Copper	Steel Stainless steel	Steel Stainless steel Copper	Steel Stainless steel	Steel Stainless steel Copper
Welding range	A	10 - 150	10 - 160	10 - 180	3 - 200	10-125/150	10-125/160
Duty cycle I max. (40°C)	%		30		25		30
Current at 60% duty cycle (40°C)	A		120		150		120
Mains voltage	V		230		230		230
Dimensions (L x W x H)	mm	360 x 130 x 215		360 x 130 x 215		360 x 130 x 215	
Weight	kg		4.9		5.8		4.9

Highlights

Unique flexibility for MicorTIG & MicorStick thanks to All-in technology

- This means for you: additional battery-supplied welding in combination with Lorch's high-capacity battery pack MobilePower.
- First-rate welding performance where you need it.



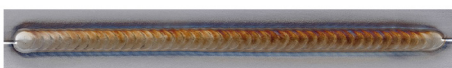
MicorTIG additional features:

Stainless steel welding with DC

TIG-DC welding



TIG-DC pulse welding



Stainless steel welding with DC



HF ignition

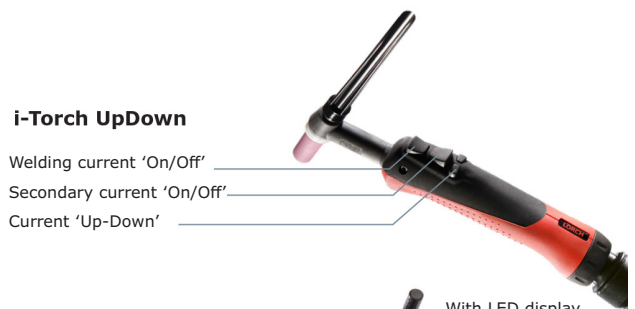
The TIG Ignition is triggered contactless with high-voltage pulses and with the press of a button to ensure that the tungsten electrode does not come into contact with the workpiece. Putting an end to welds with tungsten inclusions, this technology reduces the strain on the electrode.



ContactTIG

When working in HF-sensitive environments or on tools, the operator has the additional option of switching to ContactTIG (contact ignition).

Can also be used with remote control torch



i-Torch Powermaster



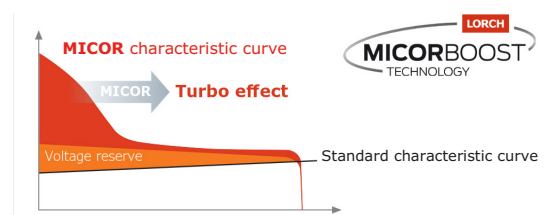
Welding current display of your Lorch welding power source

With LED display embedded in the torch handle

MicorStick additional features:

MicorBoost technology

- First-rate welding performance where you need it.



Advanced, smart technology with superior safety, 10-amp VRD, MINE-Spec capable

- With the advanced 160/125 VRD system simply plug into mains or generator power and the system limits the output to 124A maximum to meet the requirements for a 10-amp 240V input. Then connect the same system to Lorch Mobile 1 battery pack and the machine will deliver full 160amp (TIG), 150amp (STICK) output.
- The Lorch 160/125 VRD is designed to meet the needs of the South Pacific mining and OH&S safety requirements and can be upgraded to meet the full Australian Mining Specification requirements.
- IP23 S rating, designed for outside field use and wet areas.
- Extra tough and robust housing design.
- Up to 200 metres of primary cable, still delivers perfect welding performance.
- Highly portable with a weight of just 4.9kg.



MicorStick Accu-ready and battery pack mobile power

MicorStick 125/160/180 Accu-ready and battery pack MobilePower The dream team for welding applications on the go.



Mains-independent, exceptionally versatile, and powerful.
MicorStick plus MobilePower. This is the formula for short distances. The need to look around for a mains connection – eliminated. The need to carry along extension cables – eliminated. Simply connect the Mobile-Power battery pack to the MicorStick Accu-ready. No more cumbersome preparations, just start welding right away. Exactly where you need to and where you want to. An excellent choice for installation work on construction sites and in the area of forestry. Ideal for quick repairs on conveyor systems, construction equipment and agricultural machinery. First-class welding performance exactly where you need it.



Full flexibility thanks to changeable batteries.

- Battery 1 = Up to 28 electrodes
- Battery 2 = Up to 56 electrodes
- Battery 3 = Up to 74 electrodes
- Battery 4 = Up to 102 electrodes



Technical data

		MobilePower	
Power	Wh	604.8	
Charging cycles	mm	approx. 1,000	
Dimensions (L x W x H)	mm	323 x 131 x 215	
Weight	kg	7	
Charge time	min	150	



Maximum electrode capacity in units per battery charge

		Electrode type RC11		Electrode type RR12	
Electrode Ø	Welding current	Length 250mm	Length 350mm	Length 250 mm	Length 350mm
2.5 mm	60 A	28	21	23	17
2.5 mm	90 A	23	17	21	15
2.5 mm	110 A	21	15	20	14
3.2 mm	90 A	–	12	–	10
3.2 mm	120 A	–	10	–	9
3.2 mm	150 A	–	9	–	8

All specifications represent maximum values gathered from real weld testings. The actual range that can be achieved in a specific application varies with the manufacturer’s brand of the electrode, the way the welder works and the local environment.

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