

The HandyTIG, T, TF-Pro & V series

TECHNOLOGY FOR PRODUCTIVITY: BOTH BIG & SMALL



The Lorch TIG Welding portfolio at a glance

Lorch has a very broad portfolio of TIG welding products to cover the wide range of market applications, from light duty DIY with 240V input power to the toughest heavy duty industrial 415V systems for applications needing output power up to 500 Amps.

Products are available in DC and ACDC configurations and have multiple options for the front control panel where the operator can have full adjustability (ControlPro) or a more simplified version that pre-sets many of the background parameters (BasicPlus).

The Lorch way is not to just build a great power source but to build a leading, fully integrated, complete functional workstation. Integrated watercoolers, cart systems and smart controlled TIG torches (up to 16 metres from the power source), are some of the optional accessories available to create the best custom end-user solution.

Series Overview

HandyTIG

The entry level HandyTIG series has 240V input and is available in 180 and 200 Amp DC and ACDC configurations. Systems are light weight and highly portable from 5.7kg. Operation is intuitive and easy to use. Rating is IP23S for indoor & outdoor use.



T Series

The industrial grade T Series has 240V and 415V input and is available in 180, 220, 250 and 300 Amp DC and ACDC configurations. Systems are light weight and highly portable from 12.2kg. Fully featured for professional use with a full line of accessories available to create optimised end-user solutions. Rating is IP23S for indoor & outdoor use.



T-Pro & TF-Pro Series

The industrial grade TF-Pro Series 415V input and is available in 250 and 300 Amp DC and ACDC configurations. TF-Pro system incorporates a fully integrated cold wire feed system, feeding wire into the weld pool from a MIG wire spool to drive productivity. Fully featured for professional use with a full line of accessories available to create optimised end-user solutions.



V Series

The V series represents the flagship top of the range, fully featured 415V input, DC or ACDC systems. Available in 240, 270, 300, 400 and 500 Amp outputs, designed for medium to heavy industrial production use. Fully integrated water cooling and ultra-fast pulse capability up to 20kHz.



The HandyTIG series at a glance

MADE IN GERMANY



- **Mobile TIG welding inverter.**
Since HandyTIG machines boast similar performance characteristics as large industrial TIG systems, both when connected to the 230V mains and used on generators at the construction site, your workshop will always be afforded the performance necessary to complete all TIG welding jobs.
- **Automatic gas management.** Automatic gas management is applied to automatically regulate the gas pre-flow and post-flow, thereby protecting tungsten electrode and weld pool against oxidation.



- **Intuitive operation.** Offering exceptional ease of use and intuitive operation, the Lorch HandyTIG series allows you to produce outstanding welding results in no time thanks to its automatic setting control.
- **Changeover DC to AC.** Offering you an effortless way to toggle between DC and AC, the Lorch HandyTIG 180 AC/DC and the HandyTIG 200 AC/DC allows you to also weld on aluminium.
- **Pulse and fast pulse.** The integrated pulse function with up to 2 kHz and up to 500 Hz, which comes standard, respectively, in the AC/DC and DC variants of the Lorch HandyTIG, offers you additional benefits when welding thin sheets.
- **Connection for hand or foot remote control.** We offer a variety of hand or foot remote controls for the Lorch HandyTIG series that allow you to adjust the welding current.
- **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.
- **Energy-efficient.** The Lorch HandyTIG utilises cutting-edge industrial electronics and fan-on-demand technology to achieve a superior level of efficiency and exceptionally low power consumption.
- **Intelligent Torch Control.** Intelligent Torch Control enables Lorch HandyTIG 180 AC/DC and HandyTIG 200 AC/DC machines to automatically detect whether the welder uses a standard torch or one of the fully digital Lorch i-Torch torches with Powermaster remote control.
- **Job memory.** You can use the job memory (ControlPro) to store 2 welding jobs each for electrode and TIG welding.
- **Safety.** Bearing the IP23 and S-symbol, the series is ideal for outside applications.

Versions

		Handy 180	HandyTIG 180 DC	HandyTIG 180 AC/DC	HandyTIG 200 AC/DC
Welding range	A	5-180	5-180	3-180	3-200
Mains connection 1~230 V		●	●	●	●
Operating concept					
BasicPlus		●	●	–	–
ControlPro		–	●	●	●
Variants					
DC system		–	●	–	–
AC/DC system		–	–	●	●
Equipment					
High-frequency ignition		–	●	●	●
ContactTIG ignition		●	●	●	●
Gas management		●	●	●	●
Electrode welding function		–	●	●	●
Application					
Area		steel and stainless steel	steel and stainless steel	steel and stainless steel with up to 10mm and aluminium with up to 5mm	steel and stainless steel with up to 10mm and aluminium with up to 5mm

● Configuration options ● Standard equipment

Operating concepts



BasicPlus

- “3 steps to weld” operating concept
- Infinitely variable current setting
- Switch 2-stroke/4-stroke
- Remote control connection



ControlPro

- “3 steps to weld” operating concept
- Infinitely variable current setting
- Exact-ampere digital display
- Switch 2-stroke/4-stroke
- Remote control connection
- Pulse function
- Job memory for 2 TIG and 2 electrode welding tasks each
- Suitable for use with Lorch's UpDown remote control torch

Highlights

Aluminium welding with AC/DC

TIG-AC
welding

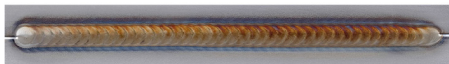


Stainless steel welding with AC/DC

TIG-DC
welding



TIG-DC pulse
welding



Non-contact HF ignition



HF ignition

The TIG arc is ignited without direct contact by high-voltage pulses. Ignition is triggered 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.

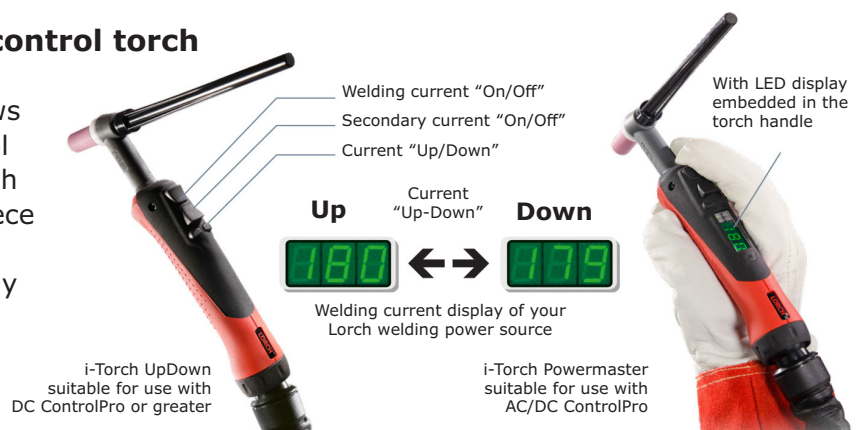


ContactTIG

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

The ControlPro operating system allows you to use the UpDown remote control torch as well as the classic double push button torch. Moving between workpiece and welding machine is in the past. You control the welding current skilfully and easily from the torch.



i-Torch UpDown
suitable for use with
DC ControlPro or greater

i-Torch Powermaster
suitable for use with
AC/DC ControlPro

Technical data

		Handy 180	HandyTIG 180 DC	HandyTIG 180 AC/DC	HandyTIG 200 AC/DC
Welding process		TIG Electrode	TIG Electrode	TIG Electrode	TIG Electrode
Electrode Ø	mm	1.0 - 2.4 1.5 - 4.0	1.0 - 3.2 1.5 - 4.0	1.0 - 3.2 1.5 - 4.0	1.0 - 4.0 1.5 - 4.0
Weldable material TIG		Steel, stainless steel copper	Steel, stainless steel copper	Steel, stainless steel copper, aluminium	Steel, stainless steel copper, aluminium
Weldable material Electrode		Steel, stainless steel	Steel, stainless steel	Steel, stainless steel	Steel, stainless steel
Welding range	A	5 - 180 10 - 150	5 - 180 10 - 150	3 - 180 10 - 150	3 - 200 10 - 170
Duty cycle I max. (40°C)	%	30 40	30 40	35 35	45 45
Current at 60% duty cycle (40°C)	A	150 135	150 135	150 110	180 120
HF ignition		–	●	●	●
Mains voltage	V	1~230	1~230	1~230	1~230
Dimensions (L x W x H)	mm	337 x 130 x 211	337 x 130 x 211	480 x 185 x 326	480 x 185 x 326
Weight	kg	5.7	6.5	13.3	13.4

● Standard equipment

The T series at a glance

MADE IN GERMANY



3 YEARS
INDUSTRIAL
WARRANTY
LORCH
Conditions apply

- **Mobile TIG welding inverter.** Jobs that used to require enormous welding machines are mastered with ease today by our T-series machines, which take up only minimal space and boast superior technology as well as extraordinary TIG welding characteristics. Good ergonomics and easy to carry from only 12kg. Ideal for applications on the go.



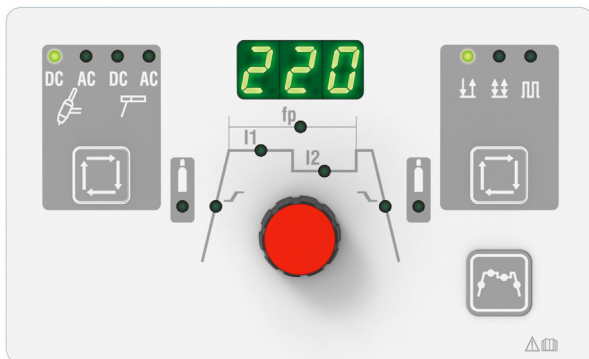
- **Pulse and fast pulse up to 2kHz.** The standard pulse function with up to 2kHz that is built into every machine offers you additional benefits when welding thin plates.
- **Low energy consumption.** The on-demand function automatically turns the components of the unit on and off as needed. Thermal control sensors monitor the temperature of the machine and regulate the speed of the fan accordingly. This smart technology reduces fan noise and dust levels in the machine compartment and helps conserve energy.
- **First-rate welding performance.** High-end technology and the SmartBase parameter database control the arc to produce flawless results.
- **Changeover from DC to AC (AC/DC only).** Available as DC and AC/DC versions in all power variants, Lorch's T series provides you with maximum flexibility even during aluminium welding.
- **Non-contacting HF ignition.** The TIG arc is ignited without direct contact by high-voltage pulses. Ignition is triggered 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. When working in HF-sensitive environments or on tools, the operator has the additional option of switching to ContactTIG (contact ignition).
- **Tiptronic.** Using the Tiptronic facility in the ControlPro version, you save your ideal setting for each weld so that you can effortlessly retrieve the settings one at a time using the Up-Down or Powermaster torch when performing recurring welding tasks.
- **Optional equipment.** While designed for mobile applications, the Lorch T series can be converted into a handy, yet fully capable machine suitable for use in the workshop by upgrading it with an optional water cooling system. When mounted on an optional Maxi Trolley, it fully retains its mobile capabilities even with the water cooling system fitted.
- **Intelligent Torch Control.** Thanks to Intelligent Torch Control (ITC), Lorch's smart torch control system, the machines included in the T series are capable of detecting whether the inserted torch is a standard torch or one of Lorch's i-Torch torches. These systems offer an extensive range of protective features for the torch and afford the welder a significant amount of added convenience.
- **Protected against falls from a height of up to 60cm.** Thanks to its exceptionally low weight, the Lorch T series is easy to carry yet fully protected against falls from a height of up to 60cm.

Versions

		T 180	T 220	T250	T 300
Welding range	A	3 – 180	3 – 220	5 – 250	5 – 300
Mains connection 1~230 V		●	●	–	–
Mains connection 3~400 V		–	–	●	●
Operating concepts					
BasicPlus		●	●	●	●
ControlPro		●	●	●	●
Variants					
DC system		●	●	●	●
AC/DC system		●	●	●	●

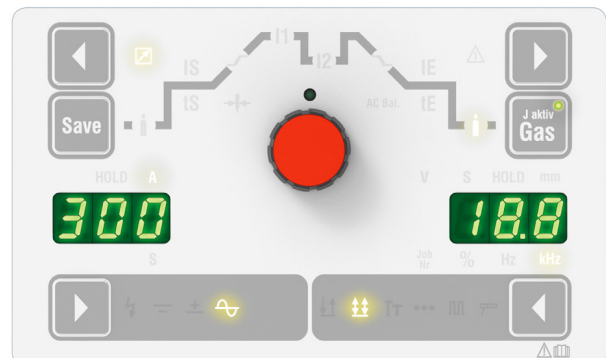
● Configuration options ● Standard equipment

Operating concepts



BasicPlus

- “3 steps to weld” operating concept
- User-oriented guidance using illuminated symbols and welding sequence control
- Infinitely variable current setting
- Exact-ampere digital display
- Switch 2-stroke/4-stroke
- Remote control connection
- LorchNet, e.g. for controlling the optional water cooling unit
- Pulse function
- Possibility for connection of the Lorch Powermaster remote control torch



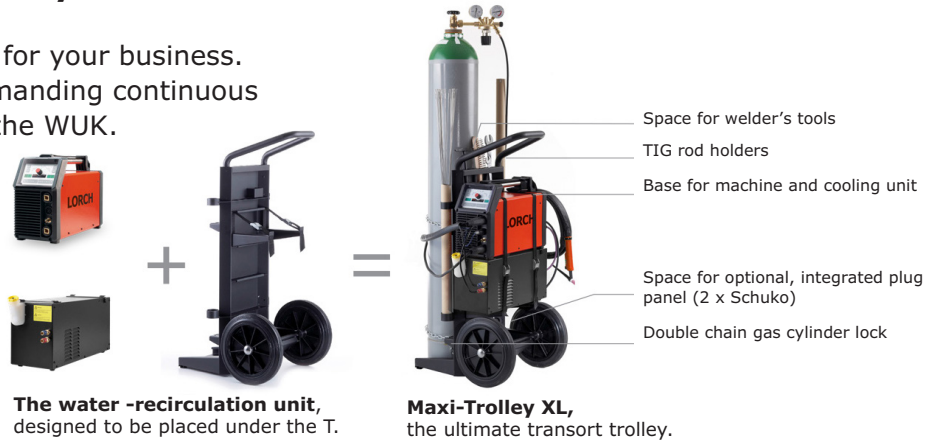
ControlPro

- “3 steps to weld” operating concept
- User-oriented guidance using illuminated symbols and welding sequence control
- Infinitely variable current setting
- Digital display for welding current and welding voltage
- Switch 2-stroke/4-stroke
- Remote control connection
- LorchNet, e.g. for controlling the optional water cooling unit
- Pulse function
- Tiptronic job memory for 100 welding tasks
- Possibility for connection of the Lorch Powermaster remote control torch

Highlights

Everything you need, perfectly stowed

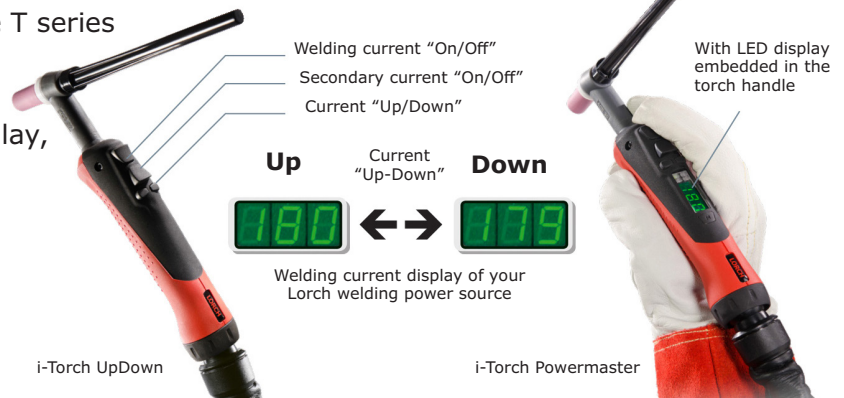
It is "the" complete TIG system for your business. You also overcome the most demanding continuous use with the watercooling unit, the WUK. The system is quickly fixed and the accessories perfectly stowed on the Maxi Trolley, the stable transport carriage.



ITC makes it possible: 2 torches for selection

ITC, intelligent torch control, allows the T series to detect whether a standard torch is connected or a Lorch i-Torch, such as a Powermaster with digital display, consequently causing the machine to automatically provide the corresponding functionality.

i-Torch



Technical data

		T 180		T 220	T 250	T 300
Welding current – TIG	A	3 – 180	3 – 220	5 – 250	5 – 300	
Welding current – electrode	A	10 – 150	10 – 180	10 – 200	10 – 200	
Current at 100% duty cycle(DC AC/DC)	A	130	160	175	200 180	
Current at 60% duty cycle (DC AC/DC)	A	150	180	200	250 220	
Duty cycle I max. (DC AC/DC)	%	35	40	35	35 30	
Mains voltage	V	1~230	1~230	3~400	3~400	
Permitted mains tolerance	%	± 15	± 15	± 15	± 15	
Mains fuse, delayed action	A	16	16	16	16	
Dimensions (L x W x H) (DC AC/DC)	mm	430 483x185x325	430 483x185x325	430 483x185x325	430 483x185x325	
Weight (DC AC/DC)	kg	12.2 13.3	12.3 13.4	14.3 16.3	14.5 16.3	

The T-Pro/TF-Pro series at a glance

MADE IN GERMANY



- **Unrivalled TIG welding characteristics thanks to inverter technology.**

Distinguished by their high efficiency and superb welding characteristics, inverters utilise digital software control technology that has a significant influence on the outcome of the welding process.

- **Pulse and fast pulse up to 2kHz.**

The standard pulse function with up to 2kHz that is built into every machine offers you additional benefits when welding thin plates.

- **Also available with integrated water cooling.**

The water-cooled variants of the Lorch T-Pro series come with a water cooling system that is housed in a compact mobile case, making it perfectly suited for use at workshops on site.



- **Changeover DC to AC.** Available as DC and AC/DC versions in all power variants, Lorch's T series provides you with maximum flexibility even during aluminium welding.

- **TF-Pro.** The wire feeder integrated into the TF-Pro 300 reliably feeds the filler metal to the weld pool. A 4-roll feed motor with a specially tuned gearbox combination is in charge of guiding the wire along. The cold wire feed is controlled using the removable operating panel.

- **Remote control.** Welders often find that the conditions on site do not allow them to place their welding machine right beside them. A remote control is helpful as it allows them to easily intervene and adjust the welding current if necessary. This is why Lorch offers a large variety of different hand and foot remote controls that are ready for use right away thanks to their plug & play support.

- **Low energy consumption.** The on-demand function automatically turns the components of your Lorch T-Pro 250 on and off as needed. Thermal control sensors monitor the

temperature of the machine and regulate the speed of the fan accordingly. This smart technology reduces fan noise and dust levels in the machine compartment and helps conserve energy.

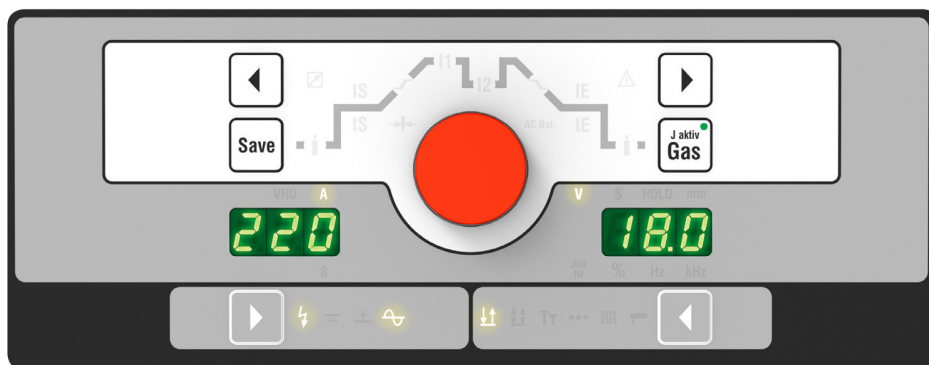
- **Interval-spot function.** Lorch's interval-spot function reduces distortion during thin sheet metal welding.
- **Non-contacting HF ignition.** The TIG arc is ignited without direct contact by high-voltage pulses. Ignition is triggered with the press of a button to ensure that the tungsten electrode does not come into contact with the workpiece. Putting an end to welds with tungsten inclusions, this technology reduces the strain on the electrode. When working in HF-sensitive environments or on tools, the operator has the additional option of switching to ContacTIG (contact ignition).
- **Intelligent Torch Control.** Intelligent Torch Control enables each machine to automatically detect whether the welder uses a standard torch or one of the latest, fully digital Lorch i-Torches including Powermaster remote control.

Versions

	T-Pro 250	T-Pro 300	TF-Pro 300
Welding range	A 5 – 250	5 – 300	5 – 300
Mains connection 3~400 V	●	●	●
Operating concepts			
ControlPro	●	●	●
Variants			
DC system	●	●	●
AC/DC system	●	●	●
Cooling variants			
Gas	●	●	●
Water	●	●	●
Equipment			
Integrated 4-roll wire feeder for TIG cold wire feed	– –	●	
Removable operating panel for setting the wire feed	–	–	●

● Configuration options ● Standard equipment

Operating concept



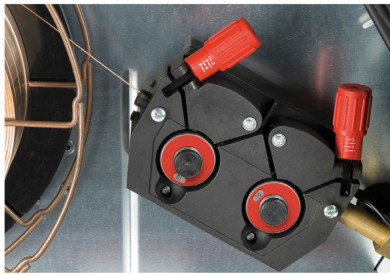
ControlPro

- “3 steps to weld” operating concept
- User-oriented guidance using illuminated symbols and detailed welding sequence control
- Infinitely variable current setting
- Switch 2-stroke/4-stroke
- Remote control connection
- Tiptronic job memory for 100 welding tasks
- TF-Pro also comes with a removable manual operating panel that controls the TIG cold wire feed

Highlights

Maximum TIG productivity thanks to integrated cold wire feed

The fully integrated wire feeder of the TF-Pro with its separate, removable operating panel and special cold wire controller reliably feeds the filler metal to the weld pool. The high-quality 4-roll feed motor with its specially tuned gearbox combination is in charge of feeding the wire in a reliable manner. The wire outlet, which is pointing down diagonally, combined with the Fast Connect System (FCS) of Lorch's TIG cold wire torch ensures that the wires are threaded in easily and unwind in a reliable manner even when made of aluminium.



Quality wire feeder with 4 rollers.



Resistance-optimised wire guide thanks to angled torch connection.



Removable control panel for controlling the cold wire feed.

Water cooling including fill level indicator

Well thought out in every detail. The level gauge built into systems that are cooled by water recirculation makes it a breeze to check the fill level of the coolant. Coolant can be refilled through the filler plug installed at the rear.



TOP performance with SmartBase

SmartBase, the Lorch expert database, perfectly controls the arc. The user-oriented guidance uses an array of illuminated symbols to allow for detailed welding sequence control. The Tiptronic facility allows you to store an additional 100 welding jobs.

Technical data

		T-Pro 250	T-Pro 300	TF-Pro 300
Welding current – TIG	A	5 – 250	5 – 300	5 – 300
Welding current – electrode	A	10 – 200	10 – 200	10 – 200
Current at 100% duty cycle(DC AC/DC)	A	180 200	230 200	230 200
Current at 60% duty cycle (DC AC/DC)	A	250 230	270 230	270 230
Duty cycle I max. (DC AC/DC)	%	60 45	45 30	45 30
Mains voltage	V	3~400	3~400	3~400
Permitted mains tolerance	%	± 15	± 15	± 15
Mains fuse, delayed action	A	16	16	16
Dimensions (L x W x H)	mm	880 x 400 x 755	880 x 400 x 755	880 x 400 x 755
Weight, gas cooled (DC AC/DC)	kg	43.4 45.5	43.6 45.5	52 53.5
Weight of the water cooling unit	kg	15.2	15.2	15.2

The V series at a glance

MADE IN GERMANY



- **Powerful TIG.** Unrivalled TIG technology squeezed into a robust industrial housing and combined with tried-and-tested inverter technology guarantees unsurpassed real world performance and maximum productivity.

3 YEARS
INDUSTRIAL
WARRANTY
LORCH
Conditions apply



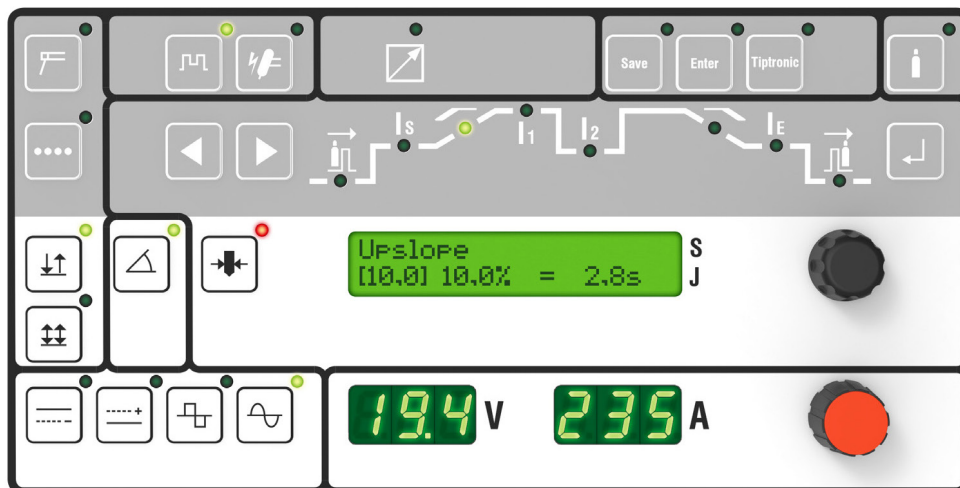
- **Plain text display with language selection and Tiptronic.** Thanks to the clearly structured user interface and the slanted operating panel, the device control remains well visible throughout operation and affords the user an ergonomic operating position. You select the AC or DC function, the electrode diameter and the welding current based on the machine you are using. When working in Tiptronic mode, you can then save your ideal setting for each weld.
- **Aluminium welding (AC/DC variant).** Positive polarity ignition and automatic cap shape produce a perfectly shaped arc during aluminium welding. The special amplitude of the alternating current combined with an optimised current balance yields an excellent cleaning effect and a manageable weld pool.
- **Pulsing and ultra-fast pulsing up to 20kHz.** The standard pulse function with up to 20kHz that is built into every machine offers you additional benefits when welding thin sheets and delivers greater welding speeds during automated applications.
- **In a robust, completely transportable industrial housing.** The tough metal housing safely protects the high-end technological innards of your system. Completely transportable at the handles, it is also suitable for crane transport.
- **Remote control.** Welders often find that the conditions on site do not allow them to place their welding machine right beside them. A remote control is helpful as it allows them to easily intervene and adjust the welding current if necessary. This is why Lorch has included a large variety of different hand and foot remote controls in their V series, which are ready for use right away thanks to their plug & play support.
- **Automatic final current reduction.** Lorch's automatic final current reduction produces perfectly clean weld ends by filling the end crater.
- **Low energy consumption.** The included on-demand function automatically turns the components of the unit on and off as needed. Thermal control sensors monitor the temperature of the components and regulate the speed of the fan accordingly. This smart technology reduces fan noise and dust levels in the machine compartment and helps conserve energy.
- **Mobility.** The mobile version of the V series comes with a trolley wheelset, allowing you to carry the unit or to move it on its wheels.

Versions

		V24 mobile	V30 mobile	V24	V27	V30	V40	V50
Welding range	A	3-240	3-300	3-240	3-270	3-300	3-400	3-500
Mains connection 3~400 V		●	●	●	●	●	●	●
Operating concept								
V standard		●	●	●	●	●	●	●
Variants								
DC system		●	●	●	●	●	●	●
AC/DC system		●	●	●	●	●	●	●
with a Lorch Feed cold wire feeder		○	○	○	○	○	○	○
Cooling variants								
Gas		●	●	●	●	●	●	●
Water		●*	●*	●	●	●	●	●
Machine variants								
Mobile system with trolley wheelset		●	●	–	–	–	–	–
Compact system		–	–	●	●	●	●	●
Feeder system		–	–	●	●	●	●	●

* with Mobile-Car transport trolley and separate water cooling unit ● Configuration options ● Standard equipment ○ Optionally available

Operating concept



V standard

- “3 steps to weld” operating concept
- User-oriented guidance using illuminated symbols and detailed welding sequence control
- Infinitely variable current setting
- Digital display for welding current and welding voltage.
- Plain text display with language selection.
- Switch 2-stroke/4-stroke
- Remote control connection
- LorchNet, e.g. for controlling the optional Feed wire feeder and connecting Lorch automation components
- Pulse function
- Tiptronic job memory for 100 welding tasks

Highlights

The V mobile as a complete system

With Mobile Car and water-cooling unit – you are ready to roll. The V mobile sits at an ideal working height, the gas cylinder is fixed in its support and the torch is watercooled for optimum performance. The V remains “mobile” and at the same time has the functionality of a large compact system.



Water cooling unit WUK 5:
High performance cooling unit for water-cooled TIG torch

+



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Mobile Car: Carriage for supporting the V mobile and the water re-circulation cooling unit WUK 5

Everything to benefit your TIG productivity

Using the UpDown remote control torch, you are at the place where things happen – directly at your workpiece. You have the torch in your hand, control the welding process from there and also regulate the welding current with it.



The automatic cold wire feeder, Lorch Feed, automates the manual feeding of filler material.



Pulsing and fast pulsing with up to 20kHz

Every Lorch V-series offers a pulse function for high-frequency pulses with up to 20kHz. The result is a focused arc with exceptional stability. The unit makes it possible to attain higher welding speeds at reduced heat input – especially for automated applications. The speed increase is particularly beneficial on thin metal sheets as it reduces warpage. The higher the pulse frequency, the more pleasant the welding noise. Depending on the base material, the unit may also help reduce temper colours during TIG welding with high-frequency pulses.

Technical data

		V 24 mobile	V 30 mobile	V 24	V 27	V 30	V 40	V 50
Welding current – TIG	A	3 – 240	3 – 300	3 – 240	3 – 270	3 – 300	3 – 400	3 – 500
Welding current – electrode	A	20 – 200	20 – 250	20 – 200	20 – 220	20 – 250	20 – 300	20 – 400
Current at 100% duty cycle(DC AC/DC)	A	220 190	270 240	220 210	250	250	360	380
Current at 60% duty cycle (DC AC/DC)	A	240 220	300 280	240 230	270	300	400	500
Duty cycle I max. (DC AC/DC)	%	60 50	60 50	60 50	60	60	50	60
Mains voltage	V	3~400	3~400	3~400	3~400	3~400	3~400	3~400
Permitted mains tolerance	%	± 15	± 15	± 15	± 15	± 15	± 15	± 15
Mains fuse, delayed action	A	16	16	16	16	32	32	32
Dimensions (L x W x H)	mm	812x283x518	812x283x518	1130x450x815	1130x450x815	1130x450x815	1130x450x860	1130x450x860
Weight, gas cooled (DC AC/DC)	kg	29.4 35.1	31 37	84.6 90.5	85 92	86.4 93.6	107.6 121.5	108.7 123.2
Weight of the water cooling unit	kg	24.1	24.1	14.7	14.7	14.7	14.7	14.7



FEED. TIG COLD WIRE FEEDER FOR AUTOMATION & MANUAL WELDING.

The Feed

Maximum TIG productivity.
The TIG cold-wire feeder automates the manual feeding operation.

The Lorch Feed delivers superior TIG quality and high speed with absolute precision. The Feed has a completely digital controller, a tachometer-regulated feed motor and a 4-roll precision feeder for the exact wire delivery for this.



The Feed at a glance

- **Wire feeder.** The 4-roll precision feeder with tachometer-regulated feed motor provides for exact wire delivery.
- **Digital speed feedback.** For perfectly accurate wire delivery.
- **Plain text display with language selection and Tiptronic.** Thanks to the clearly structured user interface and the slanted operating panel, the device control remains well visible throughout operation

and affords the user an ergonomic operating position. When working in Tiptronic mode, you can then save your ideal setting for each weld.

- **Plug&Weld: LorchNet.** The one cable that connects everything: both during manual and automated welding.
- **Feed 2.** Cold wire feed with separate, removable power supply unit for work in electrically sensitive areas.



Feed application area: to perform manual welding tasks, simply adapt it to your Lorch V-series using the LorchNet interface.



Range of feed applications: as a fully integrated part of Lorch's automation solutions.

Technical data

		Feed 1	Feed 2
Feeder speed	m/min	0.1 - 6.0 or 0.5 - 20.0	0.1 - 6.0 or 0.5 - 20.0
Drive/feeder		4-roll/tacho-regulated motor/digital speed feedback	4-roll/tacho-regulated motor/digital speed feedback
Mains voltage	V	230	42/230
Mains plug		Schuko	detachable power supply unit/Schuko
Dimensions (L x W x H)	mm	670 x 270 x 500	670 x 270 x 500
Weight	kg	21.5	21.5*

* Excluding power supply unit

LORCH TIG TORCHES. PERFECT CONTROL MADE SIMPLE

The TIG torch series at a glance

- **Ergonomics.** The unique design of the torch made it possible to reduce the distance between control button and arc. The elevated secondary current button is sure to avoid any unintended adjustments of the welding current and other parameters. Available in 2 sizes.
- **HeatProtect.** A heat sensor provides thermal protection and safeguards the high-quality electronic control system against overheating. (i-version)
- **TorchProtect.** When activated in the welding machine, the optional Torch-Protect automatically detects the connected TIG torch and prevents the torch from being subjected to a current that exceeds the maximum rating of that particular torch. This feature protects the torch against overload. (i-version)



- **Equally comfortable for lefties.** A simple press and hold of the Mode button for seven seconds in the Powermaster variant will switch the display to a view that is appropriate for left-handed users.
- **Powermaster control.** The Powermaster variant lets you control all essential parameters of your welding jobs directly at the torch
- **Cold wire torch.** Integrated, automatic cold wire feed.
- **Tiptronic.** Using the Tiptronic facility, you simply save the ideal setting for each weld in the required sequence. The job memory makes it quick and easy to load up to 100 work values one after the other when you need them.
- **Flexibility.** The ball joint found at the handle and the resilient leather flex hose package guarantee superior freedom of movement and ease of use.
- **Stability.** The decreased distance between the controls of the torch, which optimises the torch's centre of gravity, allows the operator to control the torch in a safe and reliable manner and to keep the arc steady whilst manipulating the torch.
- **Safety.** The elevated secondary current button reliably prevents any inadvertent operation of the UpDown button.
- **Versatile.** The hose package included with the TIG torch is available as a 4m and an 8m option.

Versions

		a-LTG/i-LTG 900	a-LTG/i-LTG 1700	a-LTG/i-LTG 2600	a-LTG/i-LTG 2800	LTV 1700	LTV 2600
Welding range up to	A	110	140	180	300	150	200
Operating concepts							
Double push button (DD)		●	●	●	●	–	–
UpDown (UD)		●	●	●	●	–	–
Powermaster (PM)		●	●	●	●	–	–
Valve setting dial		–	–	–	–	●	●
Cooling							
Gas		●	●	●	●	●	●

		a-LTW/i-LTW 2000	a-LTW/i-LTW 3000	a-LTG/i-LTW 1800	a-LTW/i-LTW 1800 SC	a-LTW/i-LTW 4500
Welding range up to	A	220	320	320	400	450
Operating concepts						
Double push button (DD)		●	●	●	●	●
UpDown (UD)		●	●	●	●	●
Powermaster (PM)		●	●	●	●	●
Cooling						
Gas		●	●	●	●	●

● Configuration options ● Standard equipment

Operating concepts



Double Push button (DD)

- Two ergonomically shaped push buttons
- Button 1: Switch current On/Off
- Button 2: Trigger secondary current
- Available as a-version and i-version



UpDown (UD)

- Two ergonomically shaped push buttons
- Button 1: Switch current On/Off
- Button 2: Trigger secondary current
- Now including remote power source control
- Available as a-version and i-version



Powermaster (PM)

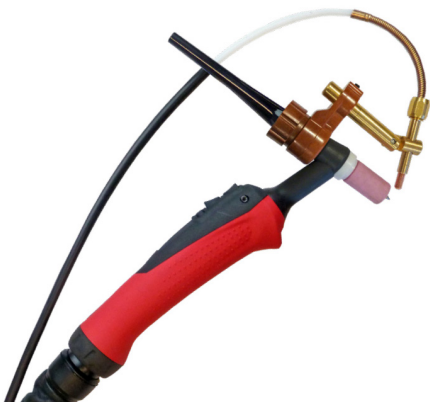
- Two ergonomically shaped push buttons
- Button 1: Switch current On/Off
- Button 2: Trigger secondary current
- Now including remote power source control
- With integrated display of various welding parameters
- Including toggle feature for left and right-handed operators
- Mode button: toggle between amperage control and Tiptronic job mode
- Option to freely select two additional features (can be anything able to be adjusted at the machine)
- Available as i-version

Highlights

Powermaster

When used in combination with UpDown torch functionality, the digital display shows you everything you need at a glance and lets you control the welding current with one-amp accuracy. What is more, the job memory allows you to load the settings you used during your best welding jobs in a flash. You can also adjust any two parameters you previously set for your system and customise them on the control panel of the torch (AC Bal, AC Freq, Pulse Freq etc).

You can enjoy Powermaster functionality on all Lorch machines that are equipped with ITC-Inside. (MicorTIG series, HandyTIG AC/DC , T series and T-Pro-/TF-Pro series)



Cold wire torch

- Integrated, automatic cold wire feed
- Available as UD, DD and PM i-Torch torches
- Wide-ranging cold wire feed adjustment and setting options
- For TIG DC and AC cold wire welding
- Adapter ring rotates and can be locked into place

Technical data

		a-LTG 900 i-LTG 900	a-LTG 1700 i-LTG 1700	a-LTG 2600 i-LTG 2600	a-LTG 2800 i-LTG 2800	LTV 1700	LTV 2600
Type of cooling		Gas	Gas	Gas	Gas	Gas	Gas
Load DC AC	A	110 80	140 100	180 130	300 250	150 120	200 160
Duty cycle	%	35	35	35	35	60	60
Electrode Ø	mm	1.0 - 1.6	1.0 - 2.4	1.0 - 4.0	1.0 - 4.0	1.0 - 2.4	1.0 - 4.0
Hose package lengths	m	4 8	4 8	4 8	4 8	4 8	4 8
Handle recess size		1	1	2	2	–	–
as a cold wire torch		–	–	○	○	–	–

		a-LTW 2000 i-LTW 2000	a-LTW 3000 i-LTW 3000	a-LTW 1800 i-LTW 1800	a-LTW 1800 SC i-LTW 1800 SC	a-LTW 4500 i-LTW4500
Type of cooling		Water	Water	Water	Water	Water
Load DC AC	A	220 165	320 230	320 230	400 280	450 360
Duty cycle	%	100	100	100	100	100
Electrode Ø	mm	1.0 - 3.2	1.0 - 3.2	1.0 - 4.0	0.5 - 4.0	1.6 - 6.4
Hose package lengths	m	4 8	4 8	4 8	4 8	4 8
Handle recess size		1	1	2	2	2
as a cold wire torch		–	○	○	–	–

○ Optionally available

Notes

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