

# YOUR TORCH FOR THE INDUSTRY OF THE FUTURE.

The Lorch LMS Performance torch.  
[www.lorch.eu](http://www.lorch.eu)



**LORCH**  
smart welding



# WELDING IN THE TOP CLASS.



## 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.



## Maximum productivity.

Lorch welding technology right to the contact tip. Resulting in ultra clean weld seams, barely any rework, less costs due to less wear part and gas consumption, and happier, higher-performing welders. Keep your welding production going and the costs at hand.



## 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 seam.



## 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 in significantly longer lifetime of the consumables. The environmentally friendly packaging is a matter of course.



Perfect ergonomics:

## Perfect in the welder's hand.

- Well balanced, slim and ergonomic shape
- Compact size due to the perfectly integrated Powermaster electronics
- Excellent grip thanks to the raised textured surface and 2K-soft areas
- Optimal handling due to smooth contours and high flexibility of the multi-ball joint

# GETTING THE BEST OUT OF YOUR LORCH SYSTEM.

## The Lorch LMS Performance torch.

Maximum productivity:

## Designed for the future of industrial welding.

### Compact build.

Everything optimised to enable the slim torch handle. Every professional welder knows from his daily work how important perfect handling is for an optimal and fatigue-free welding.



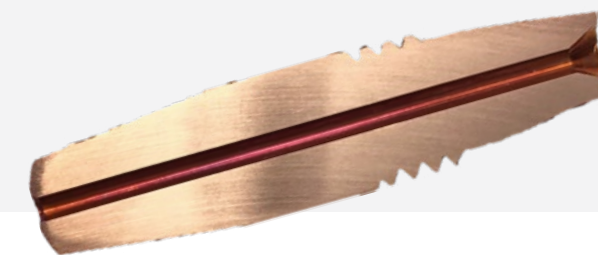
### Perfect current transmission.

Unlike with conventionally designed torches, the current is not only transferred via the tip adapter and the thread, but primarily via the rear conical area of the contact tip. The special shape allows the rear of the contact tip to sit perfectly into the tapered recess of the torch neck, ensuring perfect and reliable current transfer via the direct copper-to-copper connection.



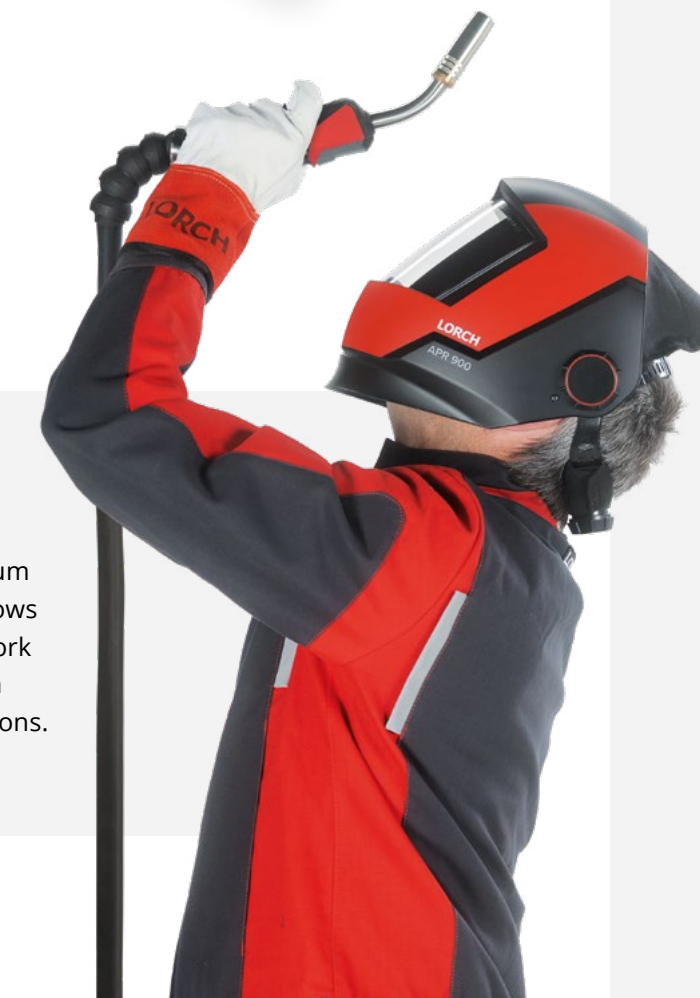
### Centring of the wire.

The special design of the contact tip produces a wire straightening effect. It has an immediately recognisable positive effect on the welding result since the arc is much more stable.



### Flexibility.

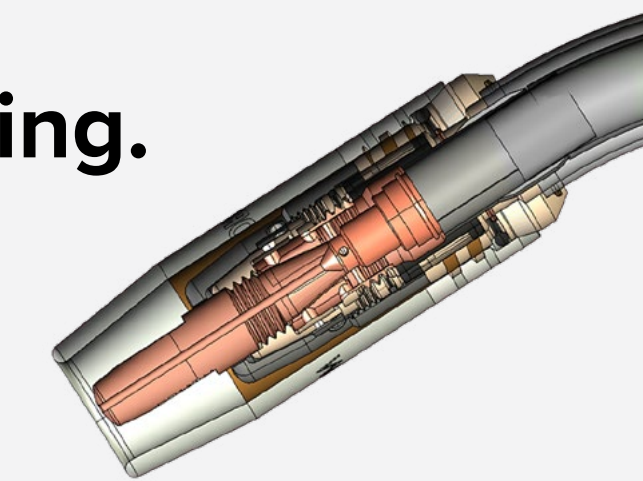
The innovative multi-ball joint ensures maximum mobility and allows the welder to work effortlessly even in difficult positions.



Excellent performance:

## Simply better welding.

- Optimised design for pulse welding
- Extremely stable and reliable arc
- Innovative contact tip cooling
- Perfect gas coverage
- Minimised temper colours in stainless steel welds
- Clean weld seams (low smoke & soot) in aluminium



Sustainable welding:

## Reduced wear protects resources.

- The special design of the contact tip and the mounting of the contact tip
  - effectively counteracts formation of micro-arcs within the contact tip
  - dramatically improves the current transfer from the torch neck to the contact tip
  - provides an additional cooling of the contact tip
  - leads to less consumption of consumables due to the reduced thermal strain of the torch front end
- Additionally the separated transport of shielding gas through the torch provides the basis for reduced gas consumption and lower costs
- Repair-friendly design
- Environmentally friendly packaging

# Technical data

## Lorch LMS Performance torch

### LMS Standard

Version		LMS 300 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	300	350	320	400	420	500
Duty Cycle (DC)	%	35	35	100*	100*	100*	100*
Wire diameter	mm	0.8 to 1.2	0.8 to 1.2	0.8 to 1.2	0.8 to 1.6	0.8 to 1.6	0.8 to 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 300 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	300	350	320	400	420	500
Duty Cycle (DC)	%	35	35	100*	100*	100*	100*
Wire diameter	mm	0.8 to 1.2	0.8 to 1.2	0.8 to 1.2	0.8 to 1.6	0.8 to 1.6	0.8 to 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.

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