

One welding torch – three advantages

- **Flexible**
- Light Cost-effective

Welding professionals do some of the most physically demanding jobs in the metalworking sector.

Welders have to constantly adapt their posture to enable effective access to the work at hand, whilst simultaneously keeping a concentrated eye on the welding arc, at all times.

This heavy physical strain can lead to bone and joint illnesses and potentially chronic damage.

For this reason, every welder would like to work with a robust welding torch, yet one that is both light and powerful and where possible is equipped with a torchneck that has been optimised for the job.

Impossible? Not now!

The new air-cooled welding torch series ABIMIG® A T LW makes these wishes come true!

The »T« interface system allows the use of torch necks whose geometry and alignment are matched as close as possible to the actual welding job.

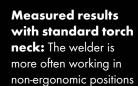


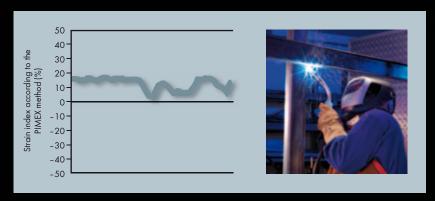
Flexibility that leaves nothing to be desired ...

Significant strain relief!

Scientific studies taking measurements according to the PIMEX method* document a significant reduction in musculoskeletal load, when the right torch neck was selected.

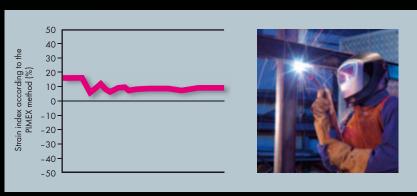
*The PIMEX method (PIcture Mixed EXposure) is the term used to describe the synchronous recording and visual presentation of work load and employees' medical data in real time.





Measured result with adapted torch neck¹: Thanks to the adapted torch neck, the welder avoids a straining posture

¹ Determined by ABICOR BINZEL in cooperation with a scientific partner





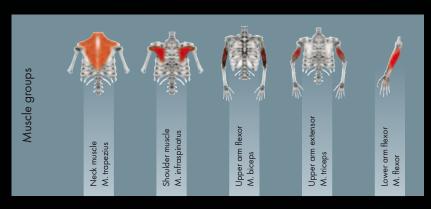
Adaptation makes welding easier



Lightweight and powerful ...

Scientific studies prove the benefits

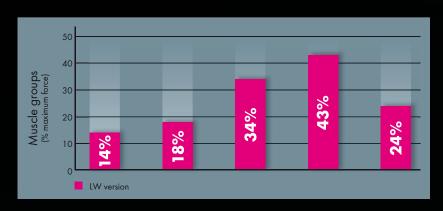
The muscle groups examined (EMG measurements made by the Sport Medicine Institute at JLU in Giessen)



Muscle strain in % when welding overhead



Relief on the muscles when BIKOX[®]LW is used on the same job





Low-Weight

The most important factor for welder physical strain is the handling weight of the torch, which has to be used throughout the working day. Thanks to specially selected alloy components, which have been optimised in terms of conductivity and elasticity, BIKOX®LW cable assemblies are up to 50 % lighter than standard equivalents.

The results are impressive:

Long-term studies at the sports science institute of The Justus-Liebig-University in Giessen have shown that the degree of muscle load on welders working with BIKOX®LW cable assemblies is perceptibly reduced both subjectively and objectively when compared with conventional cable assemblies. Shoulder and arm muscles are under significantly less strain.

The results are greater precision and efficiency at work and, in the longer term, less welder downtime due to work-related strain and illness.



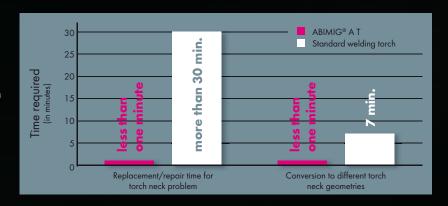
Convincing efficiency ...





Productivity

Downtime comparison in the event of problems with the torch neck and conversion to other torch neck geometries



Time is money! As competitive pressures increase, the demands for the optimum use of time and the reduction of downtime also increase.

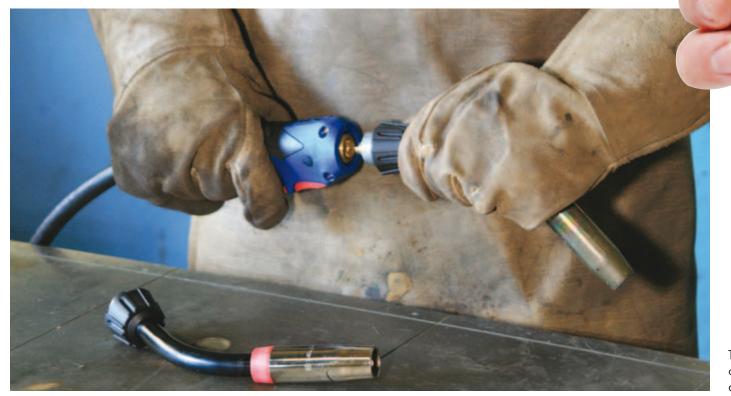
The quick-change system »ABIMIG® A T« enables the torch neck to be replaced quickly thanks to a standard interface with a simple design – whether replacement is on account of repair or for adaptation to a different welding task.

Complicated, time-consuming wear part replacement on site becomes a thing of the past. Dead capital in the form of expensive special welding torches only occasionally used is minimised. A clever solution for all those who think economically.

Time for essentials

Never before has there been such a versatile welding torch The front-end of the torch is subject to extreme mechanical and thermal load, as well as the adhesion of spatter. As a result, the torch neck is the part that fails the most.

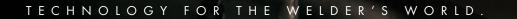
The time required to replace a standard, fixed torch neck is somewhere between thirty minutes and one hour, which can easily result in significant repair costs every year, even in smaller companies.



The worn torch neck can be replaced within a very short time

More than 1000 possibilities ... And if all this is not enough, the »FREE STYLE« **Easily modified** The welding torch system ABIMIG® A T LW leaves nothing to be desired in terms of equipment. system available on request allows every technically feasible torch to be delivered according to your Alongside the catalogue series of »BASIC« specific requirements. standard torches, the **»COMBI**« modular system You don't think that's possible? offers the possibility to adapt various pre-defined Put us to the test. We will design the optimum solution necks with standard cable assemblies. Even more for you! options are provided by the »VARIO« kit system with an additional choice of wearing parts and cable assembly components, as well as machine connections. 10





Standard welding torch, Technical data according to EN 60 974-7:



(DIN EN 439) 60% 0.8-1.0 mm

Type: 45° Part-No:

Part-No: 3 m: 006.D810.1 4 m: 006.D811.1 5 m: 006.D812.1





260 A Mixed Gases M 21 (DIN EN 439) 60%

Duty cyle: 60 % Wire-Ø: 0.8 – 1.2 mm

9.1

Part-No:

Type: 45°

3 m: 018.D960.1 4 m: 018.D961.1 5 m: 018.D962.1



320 A Mixed Gase
(DIN EN 439)

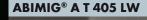
Duty cyle: 60%

Wire-Ø: 1.0-1.6 mm

Part-No: 3 m: 014.H390.1 4 m: 014 H391 1

Type: 45°

4 m: 014.H391.1 5 m: 014.H392.1



Duty cyle:

Wire-Ø:

Rating: 400 A CO₂
370 A Mixed Gases M 21
(DIN EN 439)

Duty cyle: 60 % Wire-Ø: 1.0 – 1.6 mm

Type: 45°

Part-No:

3 m: 015.D070.1 4 m: 015.D071.1 5 m: 015.D072.1



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