

TIG TORCH

AL 16/22/27 AW 32/42/52

TIG TORCHES



PERFECT WELDING



SEE FOR YOURSELF-YOU'LL BE IMPRESSED!





Fronius TIG welding torches – the ideal link between your power source and the arc.

Our TIG torches offer optimum performance for professional welding of low and high-alloy steels, aluminium and aluminium alloys. The name of Fronius is a byword here for the utmost in high precision, operator convenience and economy. Once you've tried out innovations such as the UP/DOWN button, you'll wonder how you ever managed without them.



1

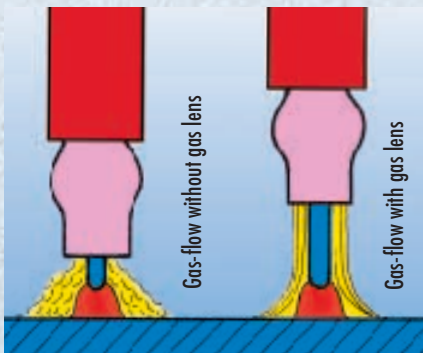
The UP/DOWN button is an innovation that puts you firmly in charge of the welding process. With it, you regulate the welding current – with just one finger. Quickly, and continuously. Keeping an eye on the arc and the weld pool the whole time. Even if you decide to do without the UP/DOWN function, you can still switch on and off from the handle using just one button. With this same function, you can lower the welding current to a pre-defined value where needed.

-  Lowering current during welding process
-  ON/OFF control function (2-step, 4-step function)
-  DOWN function – continuous welding-current drop
-  UP control function – continuous welding-current rise



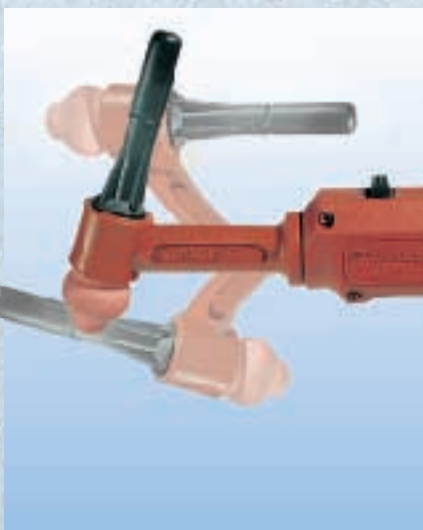
2

Optionally, your AL 16 or AL 22 torch can be supplied fitted with a digital current meter. This makes for unparalleled operator convenience. You can set the welding amperage directly from the welding workplace using the UP/DOWN button, and read off the amperage on the 7-segment display at the same time. (Can currently only be used with Fronius TIG power sources from the MAGIC-WAVE and TRANSTIG 2000 series and later!)



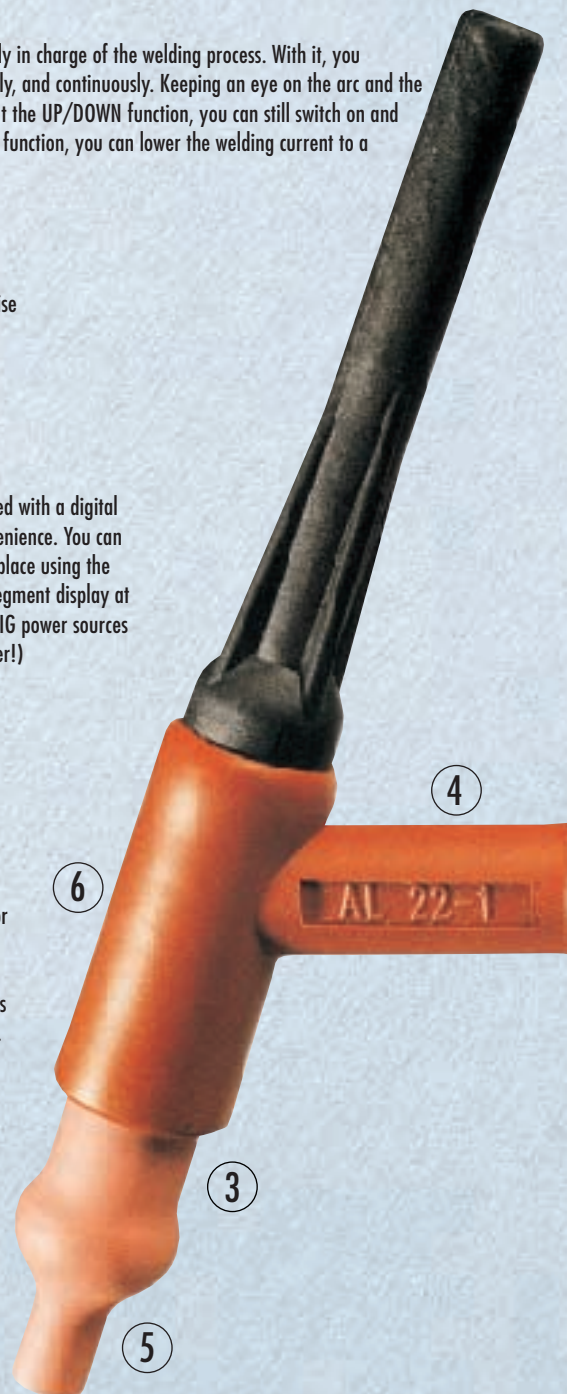
3

Gas lenses reduce the risk of porosity formation. By ensuring an even, swirl-free flow of gas, they make for superlative weld quality. The savings in gas consumption (1–2 l/min) and the reduced oxidation of seams welded in high-alloy materials are additional advantages in terms of improved economy.



4

The torch necks are axially rotatable in the handle, through $\pm 60^\circ$. For special applications, we also supply a flexible torch neck. This makes it much easier to deal with "hard-to-get-at" locations in e.g. out-of-position welding. Made of soft-annealed twisted copper, the flexible torch neck is both highly flexible and provides a very high number of bending cycles. It is protected from mechanical damage by a high-grade heat-resistant mantle of silicone rubber.



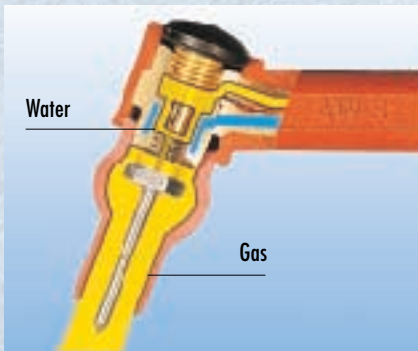
Help yourself to top quality

- continuous current adjustment with UP/DOWN button, directly from handle
- ergonomically designed handle, with precise, easy-to-use rocker switch
- the flexible torch neck and the HF-insulating, wear-resistant hosepack, with its highly flexible corrugated hose, together give our torches their practical, "use-anywhere" capability.



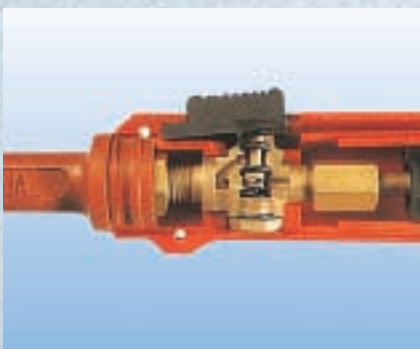
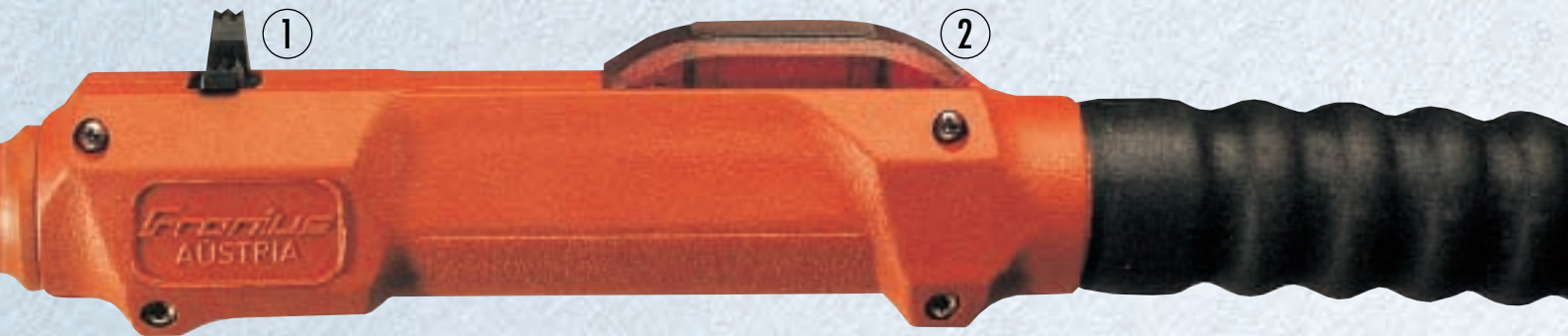
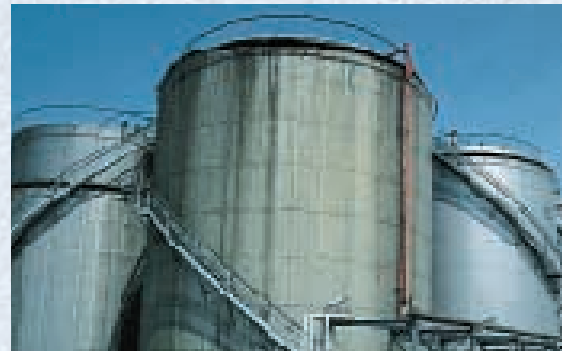
5

The gas nozzles of this system are pluggable and so are quick and easy to change to suit the application in question. Made of a ceramic material, they have excellent heat dissipation characteristics and so are suitable for use in high-performance welding.



6

The torch body is cooled highly effectively, either by gas or – with higher outputs – by water. This enables it to be compactly dimensioned and to give maximum loadability.



S version – the best solution for rectifier welding.

The well-proven gas shutoff valve of the "S version" provides a high degree of operator convenience and ease of handling. Actuated with just one finger, the gas shutoff valve makes for quick and easy control of the shielding gas.

VERSIONS

TECHNICAL DATA

ARTICLE NUMBERS

Model	Max. welding amperage		Duty cycle	Electrode diam. Ø	Type of cooling		Length	Version/article number						
	AC	DC			G	W		Standard	U/D	F	U/D F	S	SF	M
AL 16	120 A	160 A	40 %	1.0-3.2	•	-	4 m	4,035,349	4,036,086	4,036,073	4,035,677	4,035,351	4,036,128	-
							8 m	4,035,350	4,036,087	4,036,074	4,035,678	4,035,352	4,036,105	-
AL 22-1	180 A	220 A	40 %	1.0-4.0	•	-	4 m	4,036,258	4,036,245	4,036,260	4,036,262	4,035,659	4,036,130	4,035,341
							8 m	4,036,259	4,036,246	4,036,261	4,036,263	4,035,660	4,036,106	4,035,342
AL 27-1	230 A	270 A	40 %	1.6-6.4	•	-	4 m	4,035,629	4,035,631	-	-	-	-	-
							8 m	4,035,630	4,035,632	-	-	-	-	-
AW 32	250 A	300 A	60 %	1.0-3.2	-	•	4 m	4,035,353	4,036,088	4,036,084	4,035,538	-	-	-
							8 m	4,035,354	4,036,089	4,036,085	4,035,539	-	-	-
AW 42-1	360 A	400 A	60 %	1.0-4.0	-	•	4 m	4,035,541	4,035,545	4,035,543	4,035,547	-	-	4,035,281
							8 m	4,035,542	4,035,546	4,035,544	4,035,548	-	-	4,035,282
AW 52-1	400 A	500 A	60 %	1.6-6.4	-	•	4 m	4,035,633	4,035,635	-	-	-	-	4,035,448
							8 m	4,035,634	4,035,636	-	-	-	-	4,035,447

EURO CONNECTOR: Add 001 to the Article n° (,....,....,001). S,UP/DOWN version not possible.

Versions:	Standard
	U/D UP/DOWN function
	F Flexible torch neck
	U/D F UP/DOWN function, flexible torch neck
	S Touch-starting with rectifier, gas control with gas shutoff valve
	SF Touch-starting with rectifier, gas control with gas shutoff valve and flexible torch neck
	M Machine torch

By the way: Even if you are not yet the owner of a Fronius power source, there is still no reason why you should do without the advantages of our high-grade welding torches.

All Fronius torches can also be supplied with a Euro connector. In this way, you can retrofit a quality Fronius torch to any power source.



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