



LiteTIG 190 AC/DC

Small and powerful!



SMALL AND

AC/DC welding in a compact format!

The Merkle LiteTIG 190 AC/DC has been designed and built on inverter based technology; this is the guarantee for optimum welding characteristics.

The compact unit can universally be used for aluminum welding in AC operation, for steel and stainless steel in DC mode as well as for stick electrode welding.

The small and powerful LiteTIG 190 AC/DC offers full welding power up to 190 A using the single phase supply of 230 V. Fine details such as the high frequency (HF) and LiftTIG ignition, TIG pulsation and numerous selectable parameters offer a professional configuration in a compact format.



**TIG
AC/DC**



1. Aluminium welding in AC mode

POWERFUL



2. Steel / stainless welding in DC



3. MMA / stick electrode welding


Technical data
LiteTIG 190 AC/DC

Power supply	1 x 230 V (50 - 60 Hz)
Continuous current (TIG/MMA)	12 A / 16 A
Continuous power (TIG/MMA)	2.8 kVA / 3.7 kVA
No load voltage	64 V
Welding current (TIG) DC	5 - 190 A
Welding current (TIG) AC	10 - 180 A
Duty cycle 20 % (10 min.)	180 A (40 °C)
Duty cycle 60 % (10 min.)	140 A (40 °C)
Electrode diameter	1.5 - 4.0 mm
Protection class	IP 23
Ignition	HF/LiftTIG
Process	TIG AC and DC, stick electrode
Operation modes	2-/4-stroke, MMA/stick electrode
Adjustments	current 1 and 2, time 1 and 2, gas post flow, down slope time, start-/end current
LED display	current, voltage, time, frequency, hold function
Programmable jobs	15 jobs
TIG pulsation	0.1 Hz - 16 kHz
MMA/stick electrode welding	hot start, anti stick, arc force
Remote control	torch socket
Torch connection	Merkle TCG connector
Sockets	50 mm ²
Norm	EN 60974-1 „S“ / CE
Weight	7.3 kg
Dimensions (l x w x h)	380 x 150 x 240 mm

Technical modifications reserved.


Digital display

Display of all process parameters, HF ignition, TIG pulsation.


Stable plastic cover

Extra protection through display cover and plastic front and back side.


Professional connection sockets

Large professional sockets for the employment of Merkle standard accessories.


Optimal handling

Maximum flexibility with adjustable carrying and shoulder strap. Carry handle with shoulder strap and power cord storage (optional)

HF DC PULSATION UP TO 16 kHz

All welding units series LiteTIG are equipped with the HF DC pulsation device. The arc is pulsed at a frequency up to 16 kHz.

This offers new opportunities in TIG DC welding which cannot be achieved by the standard welding arc.



Standard TIG welding



with HF DC pulsation

SPECIAL FEATURES

- Extreme concentration of the arc.
- Arc similar to plasma welding.
- Low heat input.
- Higher welding speed.
- Extremely stable arc.
- Perfect for edge welding.

