

WIG-INVERTER **TIGER 170/210**

REHM – Setting the pace in welding and cutting today



TIGER 170/210

Persuasive technology



Despite their weight of up to 6.0 kg and their extremely compact dimensions, the TIGERs are packed with power. Together with the robust housing, these features make them the ideal companion for arduous outdoor work on building sites. In the workshop too, the TIG inverters display all the features you would expect of a professional unit:

- The **disconnectable HF ignition** permits welding in the vicinity of highly sensitive electronic equipment, for example repair welding on CNC machines or inside sensor-monitored process equipment
- The **adjustable downslope time** can be set between 0.0 and 10.0 seconds, and the **post gas flow time** between 0.5 and 25 seconds, ensuring optimum welding results
- With a choice between the **2-step and 4-step function**, you can make both quick and controlled tack welds as well as longer welds conveniently and effortlessly
- Using the **remote control socket** integrated as a standard feature, the optional connection of a pedal-operated remote control is possible without any problem

The TIGER 170/210 is designed for all types of welding work on stainless, alloy and non-alloyed steels and non-ferrous metals and is the ideal partner for all types of work. A high-performance electronic unit developed especially for this unit makes possible a 170 A or 210 A TIG current with 50 % duty cycle!

Power that's unique in this class. This power-packing unit caters for every requirement!

INTIG Energy (Intelligent Ignition Energy)

With the INTIG-Energy feature, the TIGER has mastered the intelligent way of ignition energy control. The highly developed processor control system ensures automatic and optimum setting of the ignition energy as a function of the welding current selected both with HF and with lift-arc ignition. So you can be sure that when welding thin plates the ignition process will not cause any damage at the start of the weld. In lift-arc ignition, rapid wearing out of the tungsten electrode is prevented. And in electrode welding, an excess ignition increase is set with the INTIG-Energy feature that guarantees dependable and gentle ignition.

EPC – Electronic Power Control

Operating safety is assured, and Off-On switching failure prevented, by continuous electronic monitoring of the power supply voltage. In addition, the excess voltage protection linked to this considerably prolongs the useful life. REHM inverter technology ensures outstanding ignition properties and an extremely stable arc. You can achieve results in a quality not previously attainable.

Temperature-controlled fan operation

The temperature-controlled fan operation automatically adjusts the cooling power to the optimal setting for the requirements and also reduces noise emission. The temperature is measured inside the power module, i.e. in the "hot spot". This ensures that the power component is always optimally protected from overheating.

High operating safety thanks to modular structure

The individual components are designed as completely sealed modules. The sensitive electronic parts are perfectly protected against dust and moisture. This increases the operating safety and ensures a long useful life.

TIGER 170/210

TIG inverters for top requirements



TIGER accessories: RAMBO.KIT and TIGER SET complete in case

100m? - No problem!

With the REHM ELSA System (Electronic Stabilised Arc), the TIGER guarantees in electrode welding uninterrupted welding even with mains supply cables that are 100 meters long (and 1.5 mm², of course). With ELSA, welding failures are a thing of the past!

BOOSTER function

In this setting, you get pure power with a maximum of 150 A or 170 A electrode current and a duty cycle of 55% or 90% respectively.

Fuse-Hold function

The Fuse-Hold function of the TIGER has proven its worth. The mains current input is checked electronically and if required the output power is reduced to prevent the mains fuse blowing. The welding current is limited in this function to 140 A, or 160 A for the TIGER 210.

Anti-Stick function

If the electrode sticks, the TIGER automatically reduces the welding current to around 35A. This prevents the electrode from burning out. The stick electrode can then be simply taken off the workpiece.

TECHNICAL DATA TIGER 170/210

Type		TIGER 170	TIGER 210
Setting range	TIG operation [A]	5-170	5-210
	BOOSTER operation [A]	5-150	5-170
	Fuse-Hold operation [A]	5-140	5-160
Duty cycle at 20 °C (40 °C) at I max.	TIG operation [%]	50 (30)	50 (30)
	BOOSTER operation [%]	55 (30)	90 (30)
	Fuse-Hold operation [%]	60 (35)	90 (35)
Welding current at ED 100 %, 20 °C (40 °C)	TIG operation [A]	135 (100)	175 (140)
	BOOSTER operation [A]	120 (100)	160 (120)
	Fuse-Hold operation [A]	120 (100)	160 (120)
Input voltage at 50/60 Hz	[V]	1x 230	1x 230
Fuse protection	[A]	16	16
Power factor	[cos phi]	0,7	0,99
Torch cooling		Gas	Gas
Degree of protection		IP 23	IP 23
Weight	[kg]	4,9	6,0
Dimensions, LxWxH	[mm]	320x145x170	375x145x180
Order no.	TIGER	150 3170	140 2180
	TIGER SET	150 3171	140 2185

We reserve the right to alter the technical specification without notice. Additional equipment for the units shown are available at extra charge. All systems have the CE and S symbols and conform to the standard EN 60 974-1.

The TIGER 170 and 210 come in a practical assembly SET complete with the new REHM TIG torch R-SR 17 or R-SR 26 respectively, with potentiometer, leather earthing cable and pressure regulator. For well-protected site operations, the BOOSTER RAMBO.KIT is also available

REHM welding technology – all about us!

THE REHM SUPPLY RANGE

- **REHM MIG/MAG Shielded arc welding units**
SYNERGIC.PRO step-switched, gas cooled up to 450 A
SYNERGIC.PRO step-switched, water cooled up to 450 A
MEGA.ARC continuously adjustable up to 450 A
RP REHM Professional step switched up to 560 A
MEGAPULS Pulsed welding units up to 500 A
- **REHM TIG shielded arc welding units**
TIGER portable 100 kHz Inverter up to 210 A
TRANSTIG/INVERTIG mobile water cooled TIG units up to 460 A
- **REHM Inverter Technology**
TIGER and BOOSTER.PRO 100 kHz electrode inverter up to 210 A
- **REHM Plasma cutting units**
- **Welding accessories and Consumables**
- **Welding fume extraction**
- **Technical advice on welding**
- **Torch repairs**
- **Service**

Development, design and production all under one roof at our plant in Uhingen. Thanks to this centralised organisation and to our forward-looking commitment, new knowhow can be quickly incorporated into our production. The requests and requirements of our customers form the basis for an advanced product development process. Numerous patents and awards testify to the precision and quality of our products. Close contacts to our customers and competence in our field are the principles which come first for us in consultation, training and service.

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