REHM Welding Technology

TIGER® ULTRA DIGITAL
TIGER® HIGH DIGITAL

DIGITAL TO GO!

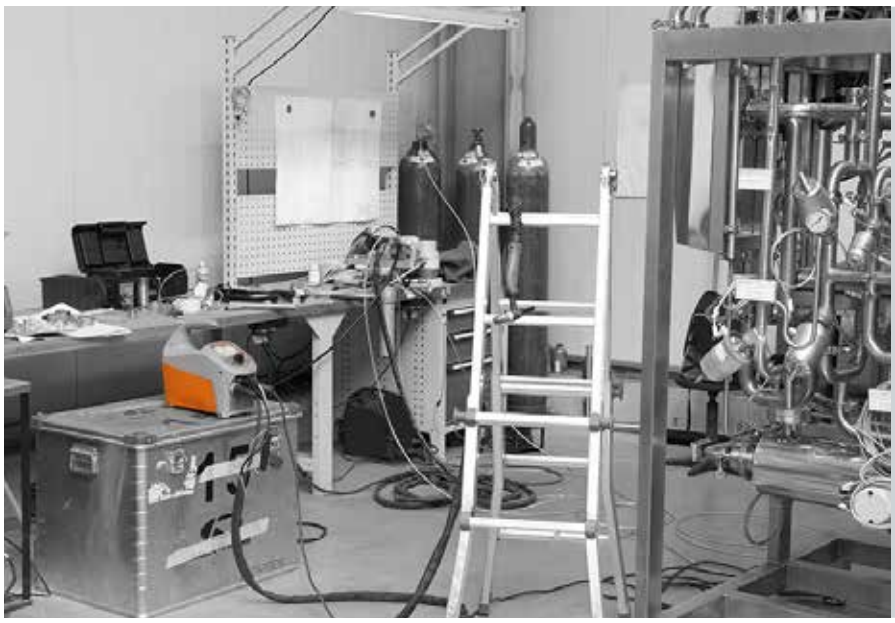
TRADES

The mobile solution for all welding tasks that trades encounter every working day.
Regardless of whether the task involves the processing of stainless steel, aluminium, steel, copper or titanium in different material thicknesses.

The **TIGER® *digital*** can do it all!

TIGER® *digital*: Spot-welding and welding perfection. Success with REHM HYPER.SPOT and RHEM Hyper.Puls.

The **TIGER® *digital*** provides excellent quality, perfect weld seam appearance and significantly reduces rework.
All of these advantages together with unparalleled mobility.
The gas cooled version has a maximum weight of 7.9 kg making the **TIGER® *digital*** the lightest TIG device in his class.



INDUSTRY

Welding in the assembly and maintenance area is highly demanding. Mobility and the simple handling of the unit are particularly important requirements in practice.

Due to a new, intuitive operating concept the **TIGER® *digital*** provides maximum reliability when selecting welding parameters, which in turn enhances user friendliness. The digital display makes it easier to achieve the right setting reliably and quickly, even for an inexperienced welder.

TIGER® *digital:* The result counts. Which is why the perfect arc is a must.

The **TIGER® *digital*** has **8 process variants** and masters any application with the correct arc.

Practical handle

The handle on the **TIGER®** ***digital*** offers the most optimum convenience. An interference-free storage solution for stowing the hose pack and associated equipment, which ensures welders always have their second hand free.

Everything to hand

The **TIGER®** ***digital*** draw ensures that all of the unit's wear parts are to hand.
Everything in one place, no more running around looking for parts. That saves time and money.

Dropping allowed...

and that from a height of up to 90 cm.
The **TIGER®** ***digital*** housing is designed so that the impacts that occur from being dropped from this height will not interfere with the performance electronics.

Each job has one button

Storing and recalling the most important device settings cannot be any quicker.

Everything in digital view

Everything at a glance in an excellent graphic presentation. Protected by a shock-resistant plastic screen, the display is simply more robust than conventional displays.

A button for everything

The R-Pilot rotary encoder, especially developed for tough applications, intercepts mechanical effects. The housing absorbs forces before they can damage the electronics.

Dirt and filth don’t matter

The electronics space is encapsulated and is always kept clean and protected. Contaminated air and grinding dust from the working environment are channelled through a special air channel.

THE LIGHTEST TIG-DEVICE IN HIS CLASS

from 7,5 kg

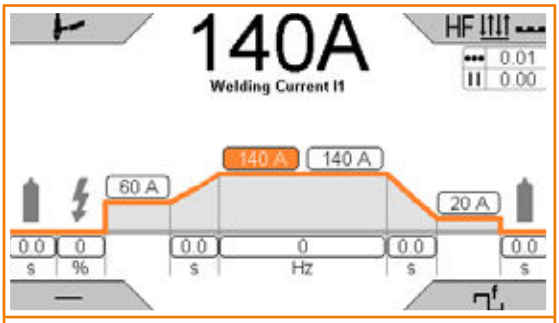
TIGER®

The benchmark for modern welding

The benchmark in operating welding machines

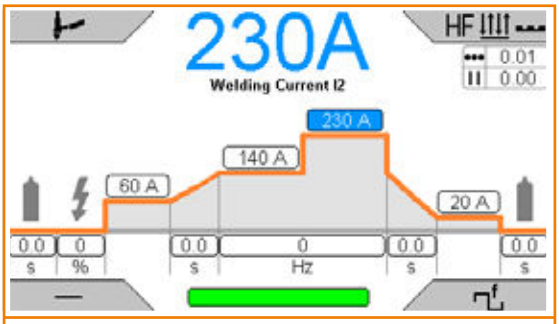
SIRIUS is a completely new type of digital operating system.
SIRIUS simplifies the operation of complex digitally controlled processes.
SIRIUS offers graphically dynamic and transparent visualization.
SIRIUS enjoys the highest user acceptance.
SIRIUS makes complex things easy.

The classic screen



The self-explanatory graph shows all settings at a glance. Interdependencies become transparent and understandable.

Dynamic graphic display



Changes to welding parameters are graphically displayed. Erroneous settings are immediately recognised. Only that which is currently active is actually displayed.

The QUICK CH

Easy and fast storage of fo

Quick and easy navigation in t

Four multifunctiona

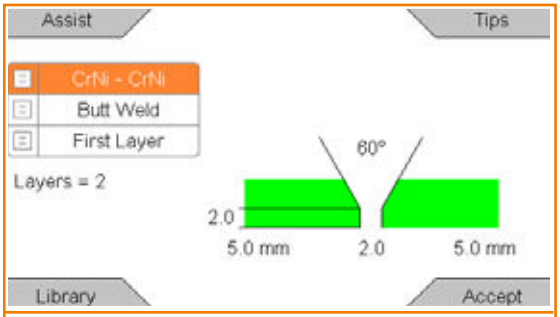
OICE buttons

ur current welding tasks.

he particular application field.

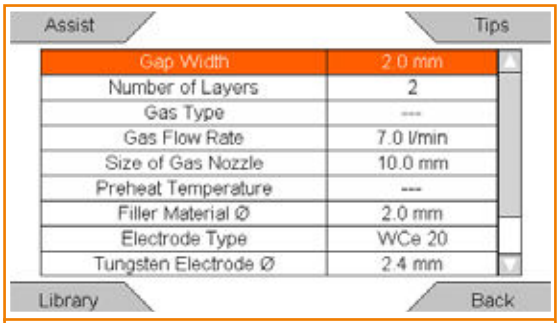
al selector buttons

Assist – help when its needed



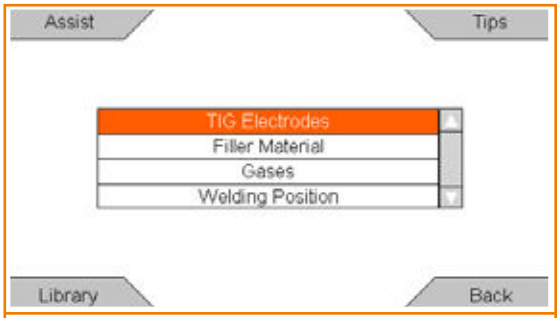
New and only available with REHM devices
Possibility of setting a TIG welding device.
The setting is performed by selecting the
base material, shape of the weld and material

Welding tips for everyone



The **TIGER®** ***digital*** provides support by offering comprehensive information about the welding task the user wishes to execute.
This enhances reliability and quality.

The complete Know-how



Even in the selection of gases, electrodes or filler materials, **TIGER®** ***digital*** supports the user
Which filler material can be used?
The **TIGER®** ***digital*** has the answer.

TECHNICAL DATA

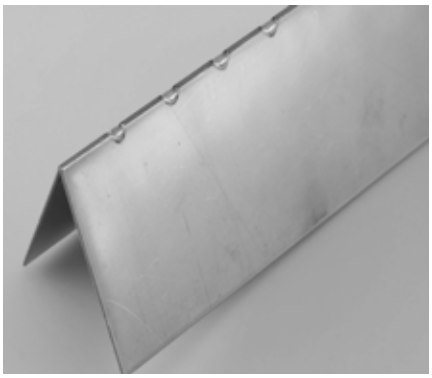
		182 DC+182 AC/DC HIGH *digital*	182 DC+182 AC/DC ULTRA *digital*	230 DC+230 AC/DC HIGH *digital*	230 DC+230 AC/DC ULTRA *digital*
Setting range	[A]				
TIG		4 - 180		4 - 230	
Electrode (BOOSTER)		20 - 150		20 - 180	
Electrode (fuse hold)		20 - 140		20 - 150	
Duty cycle (ED) at Imax.	[%]				
TIG		40		35	
Electrode (BOOSTER)		30		40	
Electrode (fuse hold)		60		60	
Weld current at 100 % ED	[A]				
TIG		140		160	
Electrode (BOOSTER)		130		140	
Electrode (fuse hold)		130		140	
Fuse (slow-blow)	[A]	16			
Torch cooling		Gas			
Protection type		IP 23 S			
Power factor	[cos phi]	0.99			
Power consumption at Imax.	[kVA]	6.1		5.8	
Mains voltage	[V]	1 x 230			
Mains frequency	[Hz]	50 / 60			
Insulation class		F			
Control socket	[pin]	19			
Welding cable socket	[mm]	13			
Weight	[kg]				
DC		7.5			
AC/DC		7.9			
Dimensions (LxWxH)	[mm]	480 x 160 x 320			
Item no.					
DC without accessories		1503518	1503519	1503555	1503556
AC/DC without accessories		1503528	1503529	1503565	1503566

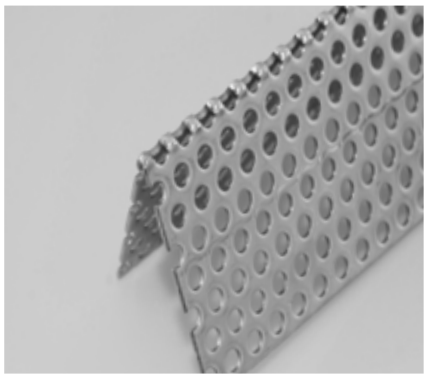
THE VARIANTS

TIGER® *digital* 182/230 AC & AC/DC gas cooled

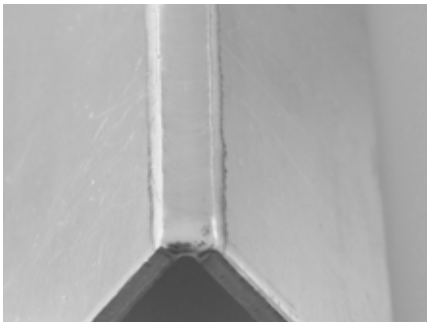
TIGER® *digital* 182/230 AC & AC/DC with water cooling unit

WELDING SEAMS TIGER® *digital* –THE RESULT COUNTS

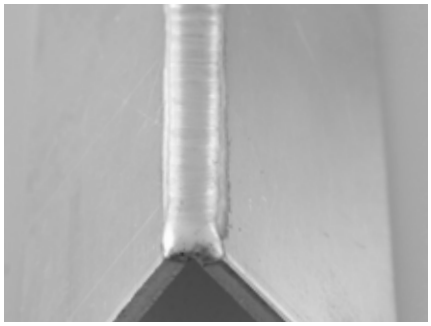




Corner weld CrNi
1.0mm CrNi tacked with REHM **HYPER.SPOT**
no warping, hardly any annealing colours.

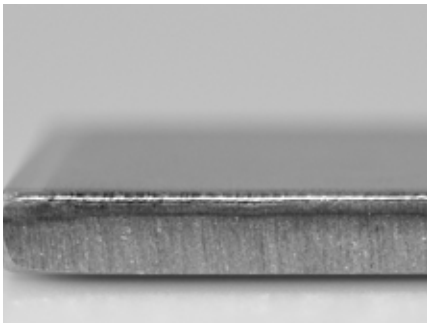


Aluminium corner weld
Function: **AC + HYPER.PULS**
without filler material



Aluminium corner weld
Function: **AC**
with filler material

Fillet weld
Function: **HYPER.PULS**
with filler material



Corner weld
Function: **HYPER.PULS +**
INTERVAL
with filler material

Corner weld
Function: **HYPER.PULS**
with filler material

Circumferential weld
Function: **HYPER.PULS**
without filler material

POWER FACTOR CONTROLLER (PFC)

THE BENCHMARK FOR EFFICIENT WELDING

- Compliance with the new regulation EU 2019/1784
- Highest energy efficiency
- Worldwide operation
- Clean consumption out of the supply network
- Use also in residential areas (useable anywhere)

You can find everything you need to know about PFC here:

The TIGER® *digital* in the versions ULTRA and HIGH

ULTRA version:

- Everything you could wish for
- Full range of functions
- High-end for mobile TIG welding

HIGH version:

- Alternative, optimised for pipeline construction and assembly areas

REHM TIGER® ULTRA / HIGH features

Function	ULTRA	HIGH
Gas pre-flows	Yes	Fix
Ignition power	Yes	Fix
Starting current	Yes	Fix
Starting current time	Yes	Fix
Upslope	Yes	Fix
Welding current 1	Yes	Yes
Pulse time 1	Yes	Yes
Welding current 2	Yes	Yes
Pulse time 2	Yes	Yes
Time pulses	Yes	Yes
HYPER.PULS	Yes	No
HYPER.PULS frequency	Yes	No
Downslope	Yes	Yes
End-crater current	Yes	Yes
End-crater current time	Yes	No
Gas post flow time	Yes	Yes
TIG with HF	Yes	Yes
TIG without HF	Yes	Yes
TIG DC	Yes	Yes
TIG AC	Yes	Yes
Current display	Yes	Yes

Function	ULTRA	HIGH
DualWave	Yes	No
AC time DualWave	Yes	No
DC time DualWave	Yes	No
Electrode with safety hold	Yes	Yes
Electrode with booster function	Yes	Yes
2 cycle with/without HF	Yes	Yes
4 cycle with/without HF	Yes	Yes
Spot welding	Yes	Yes
Interval welding	Yes	No
Spot welding time	Yes	Fix
Interval Pause time	Yes	No
AC waveform	Yes	Auto
AC balance	Yes	Yes
AC frequency	Yes	Yes
Automatic frequency adjustment	Yes	Yes
UP/Down control	Yes	Yes
P1 to P4	Yes	Yes
Assist	No	Yes
Assist Pro	Yes	No
Program memory	Yes	No
Setup	Yes	Yes

TIGER® *digital* Set – THE SPACE SAVING SOLUTION

TIGER® *digital* Set plastic case

The case:
- Double-inlet made of high-quality foam
- Torch, ground cable and pressure reducer are stowed so that they cannot slide around
- The ergonomically designed handle ensures excellent carrying comfort

The set:
- **TIGER® *digital*** TIG torch R-TIG 211
- **TIGER® *digital*** ground cable
- Pressure reducer

TIGER® *digital* ACCESSORIES

Remote foot controller

Welding torch R-TIG 141, 211, 251

UP/DOWN FUNCTION, COMFORTABLE OPERATION

Trolley

R-TIG wear parts set

Water cooling unit

DIMENSIONS IN MM (LXWXH): 430X210X235

THE REHM PERFORMANCE PROGRAM

- **REHM MIG / MAG welding machines**
- **REHM TIG welding machines**
- **REHM MMA electrode inverter**
- **REHM PLASMA cutting systems**
- **Welding accessories and consumables**
- **Welding fume extraction**
- **Technical welding advice**
- **Torch repairs**
- **Service**

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