



180
XT

Maximum reliability
to unleash your
welding potential

Ignis




No matter what happens:

Reliable in all situations

Each welding task brings its own individual requirements. Arc welding poses a particular challenge for welding specialists. The seam has to withstand stresses and weathering of all kinds—regardless of whether it is located deep underground or high in the air. This is true even when a stable power grid is not available. Achieving good results is only possible with the right welding machine, such as the Ignis 180, which helps you fully unleash your welding potential, even in adverse conditions.







With the Ignis 180XT, a stable arc is a reality, even with long grid leads or voltage fluctuations. This robust welding system always provides perfect results, even with unstable grids, generator-powered operation, or over a wide operating range. It makes the Ignis the perfect companion on construction sites, for repair and maintenance work in industry and agriculture, and in any private workshop.

The best result

with every
power grid



Compact, robust,
reliable

Your responsibility, your choice

The perfect weld seam every time, even in the most adverse conditions, in the smallest of spaces, indoors or outdoors—this is possible with the compact Ignis product family. External influences such as dust and moisture, cannot harm the robust and durable housing. Pioneering technologies and numerous functions help get welding off to a smooth start and continue to offer support throughout the whole welding process. So you can concentrate entirely on your job.





Portable and resistant

At only 19.6 lbs (8.8 kg) Ignis 180XT is truly lightweight and suitable for mobile use. The robust construction and the integrated stainless steel filter provide reliable protection even for demanding outdoor welding tasks or in volatile weather conditions.



Full power even with long grid leads

Perfect welding results even with mains leads up to 328 feet (100 meters) long are a matter of course with the Ignis. This is made possible by the integrated PFC technology (Power Factor Correction). As a result, the Ignis is particularly energy-efficient and interference with the grid is minimized.



Easy and user-friendly operation

The intuitive operating concept and 7-segment display make it possible to quickly read the parameters that have been configured, and takes the hassle out of handling. Slightly set inwards, the user interface is also well protected against damage and external influences.



Wide range of variants with additional functions

The Ignis TIG model is a great option for mobile TIG welding with convenient remote control operation. The Ignis 180 is also available in country-specific variants and can be used in regions with different mains voltages.



A stable arc with no exceptions

HotStart

In order to make the electrode easier to ignite, the current is increased for fractions of a second on the power source. The HotStart function was specially developed for welding with rutile and cellulosic electrodes.

SoftStart

This function ensures a stable arc at the start of welding and has been specially developed for basic electrodes that weld at a low welding current

Anti-stick

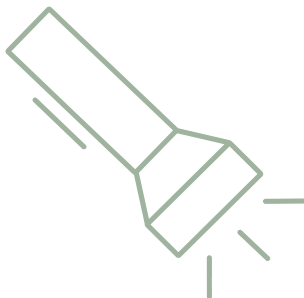
Prevents electrode burn-out: If the electrode sticks during manual arc welding—equivalent to a short circuit—the power output of the welding unit switches off immediately.

Stick Pulse

Beautiful welds and even faster welding thanks to the stick welding pulse function—especially in restricted positions.

Made for everyday

welding



TrackingArc

This function acts like a flashlight. Igniting the arc with only eight amperes makes it easier to find the exact starting position when re-igniting after a welding stop or an electrode change. In this way, you can avoid welding errors such as insufficiently filled end-craters or notch effects as well as time-consuming rework. The TrackingArc function is specifically designed for applications that do not use an automatic welding helmet or shield.

Functions that never fail to impress

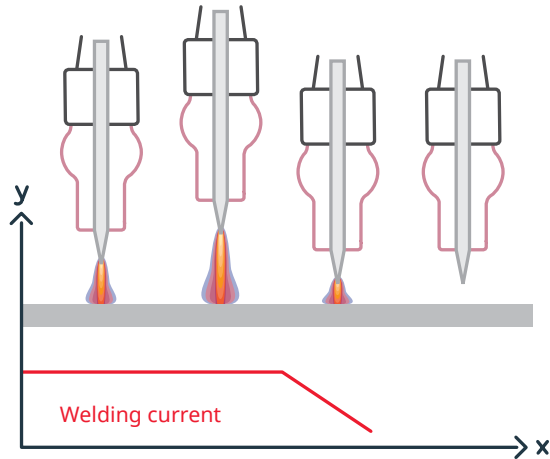


	180XT	180XT TIG
HotStart	✓	✓
SoftStart	✓	✓
Anti-stick	✓	✓
Stick Pulse	✓	✓
TIG variant	✓	✓
TAC tacking function	-	✓
TIG Comfort Stop	✓	✓
TIG Pulse	-	✓
TIG Multi Connector	-	✓
Remote control operation	-	✓
Time Shutdown (300 s/900 s/off)	✓	✓
TrackingArc	✓	✓



TIG Comfort Stop

Prevents annoying arc break at the end of welding: Once the welding process is finished, the welding current is automatically switched off after a specific change of the arc length. This ensures improved welding results in the area of the end-crater because the gas shield is also maintained.



TAC Tacking Function

For tacking, the TAC function agitates the weld pool to merge effortlessly. TAC is also very useful when welding light gauge sheets without filler metal.

TIG Pulse

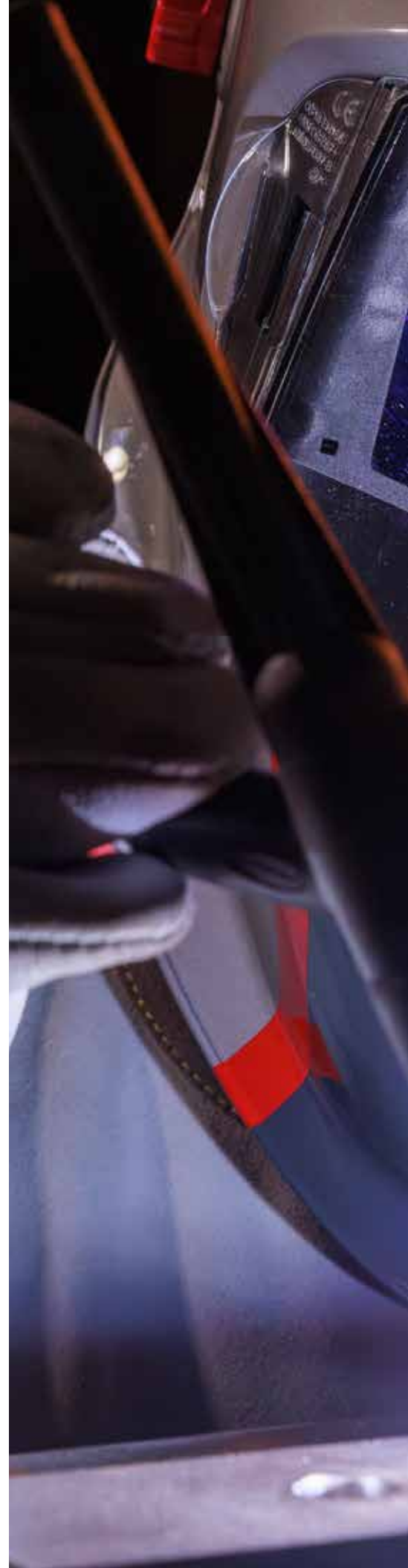
This function (up to 100 Hz) enables precise control over the weld pool and ensures excellent seam jointing. The pulsed arc makes it easier to work with very thin materials, because the temperature is slightly lower in the phases with less current.

TIG Multilock System

Simpler, more flexible welding: The Multilock System offers a variety of different and interchangeable torch bodies in different lengths and angles.

TIG Multi Connector (TMC)

One solution for everything: This universal connection for system components, such as welding torches with special functions (Up/Down, potentiometers) or remote controls, gives the user cross-product advantages.





Complete control

Perfect welds
in any position

With the TIG variant, the Ignis can be used to master both electrode arc welding and TIG welding. Sophisticated additional functions such as TIG Comfort Stop and TIG Pulse improve the arc stability and give you even better control over the weld pool. In this way, Ignis helps you ignite your welding potential.

Intuitive controls,
diverse settings

- Rotary pushbutton (can be used when wearing gloves)
- A range of welding methods: stick, CEL, TIG
- Setting values: Dynamics, welding current, HotStart/SoftStart, Pulse, and many more

Robust plastic housing,
protected interior

- Protection against contamination and damage to components (IP23 protection)
- Protected connection and operating area
- Fixing all components to the frame
- Quick replacement of prints and parts
- Improved and targeted air flow

Optimized rib elements

- Better protection against spray water
- Optimal cooling for a longer duty cycle
- Integrated dust filter for better protection of the electronics



Diverse,
durable,
intuitive



TIG variant

- Integrated gas solenoid valve
- TMC connection for the use of burners with Up/Down function or remote controllers
- TIG Pulse, TAC tacking function, 2-step mode and 4-step trigger mode
- Contact ignition

180XT Input Power

- 120–230 V -20%/+15%
- Easy exchange of mains cable/plug for different input power with the Fronius Power Plug



It's
all
within
your
grasp

A close-up photograph of a person's hands operating a red Fronius power tool. The person is wearing a white long-sleeved shirt and a dark brown apron. Their right hand is on a black handle, and their left hand is touching a green digital display on the tool's control panel. The tool is red and black, with the 'Fronius' logo visible. It is connected to a black power cord. The background is a dark, textured surface, possibly a metal grate.

Fronius



Stay future-proof

Durable

Long service life: The Ignis product family is designed and made with sustainability in mind. A high-quality stainless steel filter, robust housing, and 1.37" ground clearance guarantee the welding system will have a long service life.

Energy efficient

The integrated PFC technology (Power Factor Correction) also ensures minimal energy loss, even with long grid leads. This makes the Ignis highly energy-efficient, and minimizes disruptive repercussions in relation to the grid. The optionally adjustable automatic time shutdown (300s - 900s) also ensures that no valuable energy is wasted even in standby mode.

Update-capable

New functions can be quickly and easily retrofitted via USB or important system information can be read out. The USB-B port is protected inside the housing and is not affected even in the case of demanding applications.



For more information,
please visit:
www.fronius.com/ignis



Technical Data

	Ignis 180XT / 180XT TIG		
Welding current -20 %/+15 %, 50/60 Hz	230 V	120 V (20 A)	120 V (15 A)
Power consumption	5.75 kVA	3.48 kVA	2.28 kVA
Efficiency	89% (at 120 A)		
Welding current range			
Electrode	10 – 180 A	10 – 120 A	10 – 85 A
TIG	10 – 220 A	10 – 170 A	10 – 140 A
Electrode/welding current range at 10 min/40°C (104° F)	180 A (40% ED) 150 A (60% ED) 120 A (100% ED)	120 A (40% ED) 100 A (60% ED) 90 A (100% ED)	85 A (40% ED) 70 A (60% ED) 65 A (100% ED)
TIG/welding current range at 10 min/40°C (104° F)	220 A (40% ED) 160 A (60% ED) 130 A (100% ED)	170 A (40% ED) 130 A (60% ED) 100 A (100% ED)	140 A (40% ED) 110 A (60% ED) 100 A (100% ED)
Open-circuit voltage	101 V		
Working voltage			
Electrode	20.4 – 27.2 V		
TIG	10.4 – 18.8 V		
Degree of protection	IP 23		
Dimensions l/w/h	171 / 6.3 / 12.2 in. (435 / 160 / 310 mm)		
Weight	19.6 lb. (8.9 kg)		
Standard packages	49,0400,0002 - Ignis 180XT Stick 49,0400,0005 - Ignis 180XT Stick/TIG		

Warranty activation



For your welding unit

Take advantage of our Fronius manufacturer's warranty for 3 years: <https://warranty.fronius.com/>



Further information

on the Ignis 180XT can be found here:
<https://www.fronius.com/ignis>

Unleash your
welding potential

To ignite the welding potential of our customers: that is our mission. As the innovation leader for arc welding and global market leader for robot-assisted welding, we create both advanced and profitable welding solutions, which are inspired by our sustainable mindset. We enjoy long-standing relationships with our customers. We understand their challenges and perspectives and maintain a close relationship with them through our regional service teams throughout the world. We listen, understand, and therefore shape the mindset of the welding industry. Our strengths lie in combining our customers' knowledge with our expertise, which allows them to unleash their full welding potential.

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