

XQ TIG

ewm[®]
WE ARE WELDING

TETRIX XQ 230

IT'S BEGINNING.
YOUR ALL-NEW TIG WELDING
EXPERIENCE






CONTENTS +

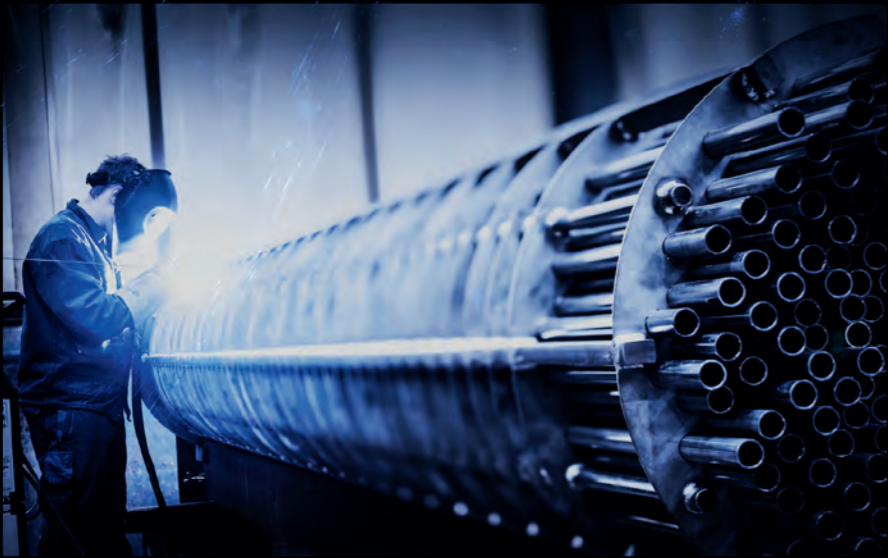
— IT'S BEGINNING.	4
Your all-new welding experience.	
— WHATEVER YOU'RE PLANNING.	6
TETRIX XQ – one machine for all your needs.	
— PERFECT SEAMS.	8
Because your welding results are what counts.	
— EVERYTHING, JUST AS YOU LIKE IT.	10
TETRIX XQ 230 DC TETRIX XQ 230 AC/DC.	
— IT MAKES YOU EVEN BETTER.	12
TETRIX XQ has all you need to make your welding perfect.	
— REIMAGINED, DOWN TO THE SMALLEST DETAIL.	14
Making every welding task fun.	
— NOW IT'S GETTING PERSONAL.	16
The best controls for your best welding.	
— EXPERT 3.0/COMFORT 3.0	18
— STAY COOL AND CLEAN, ALL THE TIME.	20
The new cooling system and air ducting of the TETRIX XQ enable top performance.	
— IT'S SO COOL.	22
And upgradable, anytime.	
— DIGITISE ANY WELDING OPERATION.	24
The ewm Xnet welding management system and Xbutton.	
— YOUR NEW TETRIX XQ CAN HANDLE IT.	26
Procedures and functions for optimum welding results.	
— TECHNICAL DATA	27



IT'S BEGINNING.
YOUR ALL-NEW
WELDING EXPERIENCE.



More digital, universal and personal –
The welding revolution is here.
Smart networking. Robust operation.
Sophisticated casing. Revolutionary
control. And unbelievably powerful,
with current up to 230 A directly
from a single-phase 230-V socket.
The **TETRIX XQ machines** offer a whole
new TIG welding experience!
For the best welding results
you've ever achieved.



MATERIALS +

- Low-alloy steels
- High-alloy steels
- Aluminium and aluminium alloys
- Non-ferrous metals
- Titanium

WHATEVER YOU'RE PLANNING.

TETRIX XQ – ONE MACHINE FOR ALL YOUR NEEDS.

The new TIG machines from the TETRIX XQ series show their strengths in a broad range of applications and with the widest variety of materials. Whether you're welding manually or automatically, TETRIX XQ machines make life as easy as possible for you when carrying out assembly work, repairs or maintenance.



SECTORS +

- Food industry
- Chemicals and pharmaceuticals industry
- Energy and water sector
- Aerospace industry
- Medical technology
- Pipeline and container construction
- Mechanical and plant engineering
- Paper industry
- Metalworking trades



PERFECT SEAMS.

BECAUSE YOUR WELDING RESULTS ARE WHAT COUNTS.

TETRIX XQ welding machines have yet to meet their match in terms of quality and progressiveness. When it comes to the perfect weld seam, though, your talent, experience and abilities as a welder are put to the test.

A TETRIX XQ machine supports you in your work like no other welding machine.

A long duty cycle with welding currents up to 230 A from single-phase 230-V mains enable uninterrupted welding, even with weak power grids, long mains leads or when using a generator. Its perfectly tuned weight, size and power will make the TETRIX XQ your new favourite machine in any work environment.

YOUR TETRIX XQ SUPPORTS YOU WITH THESE FUNCTIONS

TIG +

Pulsing

Decreases the heat input, which reduces distortion and discolouration.

activArc

Dynamic TIG arc with automatic arc stabilisation. The high arc force provides reliable sidewall fusion as well as focused and uniform heat input. Particularly beneficial when welding fillet welds and root passes.

Spotmatic

Reproducible welding of uniform tack points.

AC balling

Ensures optimum tungsten balling and therefore a stable, easy-to-handle arc.

AC special

Ideal for joining metal sheets of different thicknesses.

AC waveforms

Optimum stability and reduced noise level thanks to adjustable AC waveforms (sine, trapezoidal, square and customised).

AC frequency

Adjustment of the arc force – ideal for thin metal sheets and fillet welds.

AC balance

Perfect harmonization between the penetration profile and the achievable cleaning effect.

MMA +

Pulsing

Vertical-up welding without using the "Christmas tree" technique, but still with reliable root fusion.

Cel

100% reliable vertical-down welding with all cellulose electrodes.



Just click the QR code

EVERYTHING, JUST AS YOU LIKE IT.

TETRIX XQ 230 DC | TETRIX XQ 230 AC/DC.

DC or AC/DC? With or without cooling unit, construction site trolley or workshop trolley? We provide you with exactly the right TETRIX XQ you need for your welding tasks.



TETRIX XQ DC +

TETRIX XQ AC/DC +



WITH COOL XQ +

ACCESSORIES +



WORKSHOP TROLLEY



CONSTRUCTION SITE TROLLEY



WELDING TORCH



5 ☆

DIRECT SELECTION OF YOUR WELDING TASK WITH FIVE INDIVIDUALLY PROGRAMMABLE FAVOURITES BUTTONS!

100
PERCENT

BETTER OVERVIEW!

Thanks to the well-laid-out, intuitively operated controls.

50%*

LESS WORK REQUIRED FOR REPETITIVE TACK WELDING – WITH SPOTMATIC.

*up to

100%

DIGITISATION FOR 100% REPRODUCIBLE WELDING RESULTS.

4

A VARIETY OF PULSE VERSIONS ARE AVAILABLE:

- Average value pulsing
- Thermal pulsing
- Automatic pulsing
- AC special pulsing

3 YEAR WARRANTY**

- No restriction on the number of operating hours – even when used in 3-shift operation, 24 hours a day, 7 days a week
- 3-year warranty on welding machines and 5-year warranty on transformers and rectifiers

**In accordance with the warranty conditions at www.ewm-group.com

IT MAKES YOU EVEN BETTER.

TETRIX XQ HAS ALL YOU NEED TO MAKE YOUR WELDING PERFECT.

Because we've been continually developing the series in line with your needs.

Decades of experience and countless discussions with welding professionals

have also led to what you see before you: the new TETRIX XQ.

Experience the new way to weld.



REIMAGINED, DOWN TO THE SMALLEST DETAIL.
MAKING EVERY WELDING TASK FUN.



EVERYTHING WITHIN REACH.

You can stow consumables in the storage compartment on the newly designed handle and always have them ready-to-go.



FULLY CONNECTABLE.

Your Tetrix XQ is outfitted with an interface for remote controls as standard. There's also a 7-pole digital interface for your ewm Xnet welding management software.



ALWAYS IN SIGHT.

The large LED infobar with four unambiguous signal colours always shows you the current operating status of your TETRIX XQ.



PROTECTED CONNECTIONS.

To protect against damage, all connections are recessed into the casing, yet still conveniently accessible.



PROTECTED CONTROL.

The protective cap protects against water, dirt and impact. The machine can still be operated if the cap is closed.



FLEXIBLE CONNECTION.

The standard 5-pole torch connection is now compatible with EWM X technology. This allows you to connect digital EWM multi-function torches with display and remote-control functions, in addition to conventional welding torches.



NOW IT'S GETTING PERSONAL.

THE BEST CONTROLS FOR YOUR BEST WELDING.

Perfect welding starts with the right settings. With the new controls of the TETRIX XQ, you have every option available for individualised work at the highest level, whether you're using the tried-and-tested COMFORT 3.0 or the new EXPERT 3.0. To enable you to use our controls smoothly while wearing welder's gloves, they're not operated via touchscreen, but instead with the ergonomic click wheel and, of course, with an easy-to-understand menu in your language. TETRIX XQ – not just anyone's, yours.



EXPERT 3.0 +

NOW ANYTHING'S POSSIBLE.

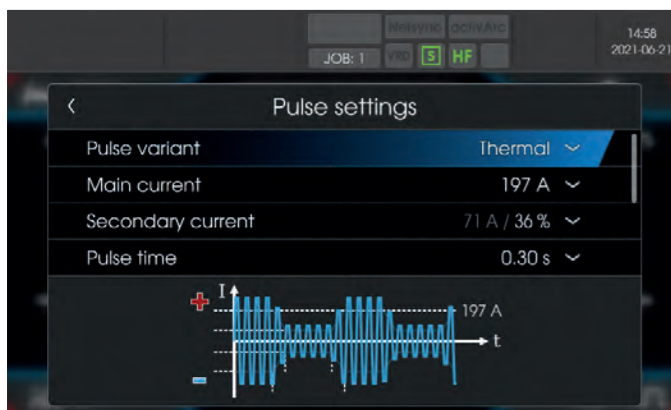
- 7" high-resolution graphic display with plain text display
- 5 favourites buttons
- Xbutton for individual access authorisation
- USB interface for offline documentation and software updates
- Click wheel for convenient operation with welder's gloves
- Reliable push-button operation (no touchscreen)
- Customisable to your individual requirements
- Direct access to all main functions
- All parameters at a glance
- Colour screen and graphical support for setting parameters



Graphic adjustment of all parameters in the flow diagram



Visual support for parameter setting



All key functions can be accessed without submenus directly from the home screen



Easy-to-understand illustrated instructions and quick-access menus



COMFORT 3.0 +

POPULAR, PRAISED AND SIMPLY INDISPENSABLE.

- 2 large, easy-to-read 7-segment displays
- 5 favourites buttons
- Click wheel for convenient use with welder's gloves
- Reliable push-button operation
- Direct access to all main functions
- All parameters at a glance
- AC and DC versions available

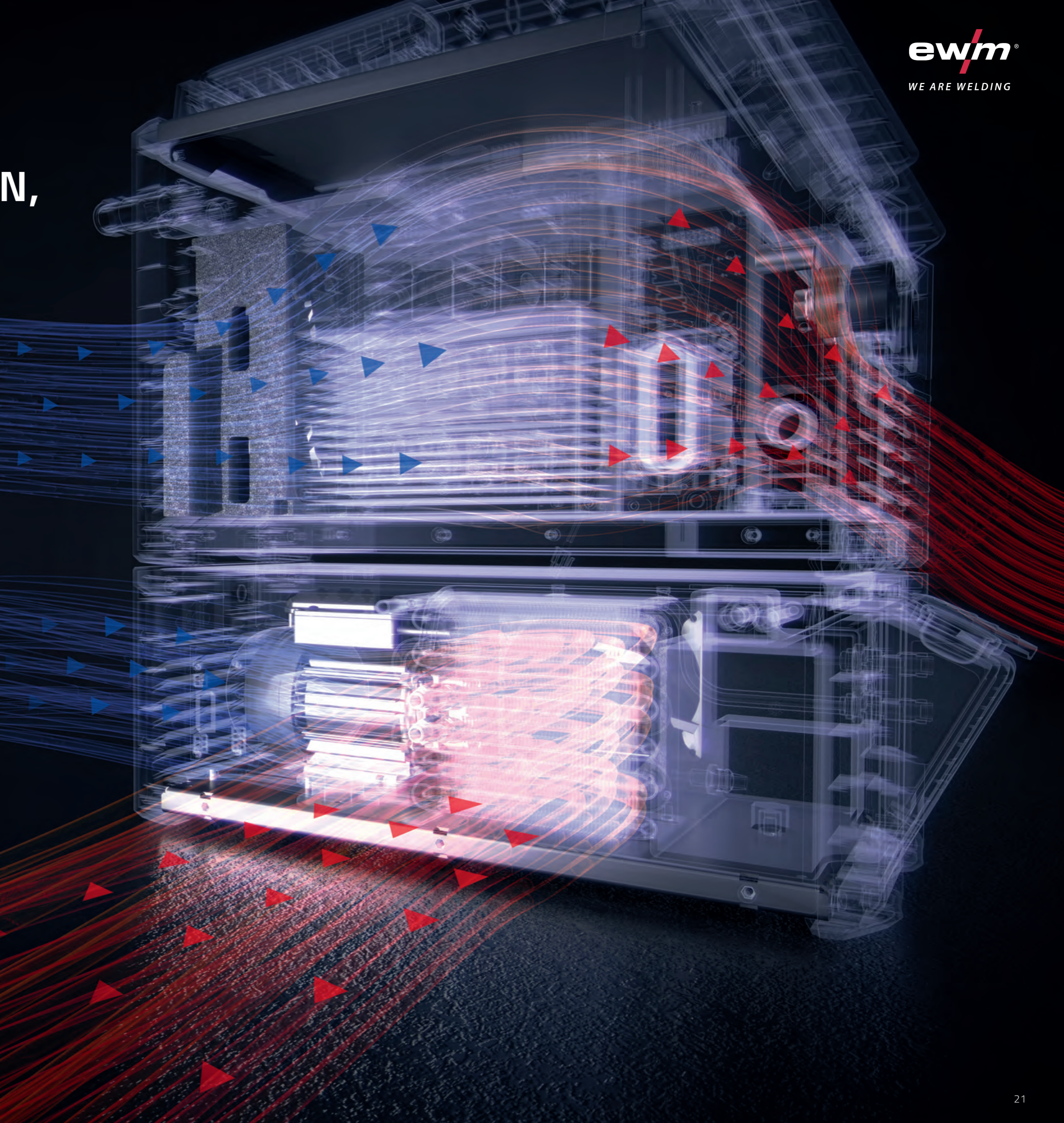


STAY COOL AND CLEAN, ALL THE TIME.

THE NEW COOLING SYSTEM AND AIR DUCTING OF THE TETRIS XQ ENSURE TOP PERFORMANCE.

To keep your welding torch well cooled even under the heaviest loads, we developed the new COOL XQ cooling system. With excellent cooling capacity and integrated flow and temperature monitoring, it's the perfect addition to your new TETRIS XQ.

For those times when it takes a while. Air ducting of the TETRIS XQ operates in a targeted way, so only those parts which really need to be cooled are cooled. The sophisticated design minimises contamination, even in rough environments.



IT'S SO COOL.
AND UPGRADABLE, ANYTIME.



PERFECTLY POSITIONED CONNECTIONS.

The power and control connections are located on the top of the cooler, so it connects perfectly to the TETRIS XQ.



DUST FILTERS. NOTHING GETS THROUGH.

The reusable stainless steel dust filter can be mounted without tools. It fits both your Cool XQ and your TETRIS XQ.



HIGHLY STURDY.

The machine's rugged feet are perfectly suited for use in rough environmental conditions.



FILLING LEVEL INDICATOR AND INSTRUCTIONS IN PLAIN SIGHT.

You can easily check the filling level of the coolant from the indicator on the front, right next to the operating information.



SECURE WATER CONNECTION.

The water connections are recessed and optimally protected against damage.



A COOL WELDING TORCH, ALL THE TIME.

When using high welding currents, your Cool XQ with liquid cooling reliably keeps your handy RETOX XQ welding torch cool.



DIGITISE ANY WELDING OPERATION.

THE EWM XNET WELDING MANAGEMENT SYSTEM AND XBUTTON.

BETTER OUTPUT FOR LESS MONEY? IMPOSSIBLE? OR NOT!

ewm Xnet digitises your welding operations, making it the perfect addition to your new TETRIS XQ. This future-oriented welding management system organises production, planning, quality management, welding coordination personnel and administration. In this way, it decisively helps you improve efficiency, quality and documentation. This is Welding 4.0 – and our answer to Industry 4.0.

SIMPLY BE MORE PRODUCTIVE. +

With ewm Xnet, you get more done in the same amount of time. Paperless transfer of all relevant data directly to the workplace, fewer error corrections thanks to specified welding parameters and less unnecessary downtime thanks to timely maintenance notices simply allow you to work more efficiently.



Xnet ready

XBUTTON – SMALL BUTTON. BIG EFFECT. +

The Xbutton makes your TETRIS XQ even more reliable and a bit more “you”. You can easily transfer all the parameters from your personal welding plan and your specific menu settings to the machine.



YOUR NEW TETRIX XQ CAN HANDLE IT.

PROCEDURES AND FUNCTIONS FOR OPTIMUM WELDING RESULTS.



	DC	AC/DC
Welding procedures	TIG MMA	TIG MMA
TIG functions	activArc Pulsing <ul style="list-style-type: none"> Average value pulsing Thermal pulsing Automatic pulsing HF start/lift arc spotArc/spotmatic (tack welding)	activArc Pulsing <ul style="list-style-type: none"> Average value pulsing Thermal pulsing Automatic pulsing HF start/lift arc spotArc/spotmatic (tack welding) AC frequency AC balance AC waveforms AC special AC balling (tungsten balling)
MMA functions	Pulsing Hot start Arcforce Antistick Cel	Pulsing Hot start Arcforce Antistick Cel

TIG +

activArc

Dynamic TIG arc with automatic arc stabilisation. The high arc force provides reliable sidewall fusion as well as focused and uniform heat input. Particularly beneficial when welding fillet welds and root passes.

Pulsing

Decreases the heat input, which reduces distortion and discolouration.

HF start

Prevents tungsten inclusions through non-contact arc ignition.

Lift arc

Simple ignition of the arc without HF by pulling up the welding torch electrode after touching the workpiece.

spotArc

Minimised spot and tacking times thanks to individual triggering of the tack points with the torch trigger.

Spotmatic

Reproducible welding of uniform tack points.

AC frequency

Adjustment of the arc force – perfect for thin metal sheets and fillet welds.

AC balance

Perfect harmonization between the penetration profile and the achievable cleaning effect.

AC waveforms

Optimum stability and reduced noise level thanks to adjustable AC waveforms (sine, trapezoidal, square and customised).

AC special

Ideal for joining metal sheets of different thicknesses together.

AC balling

Ensures optimum tungsten balling and therefore a stable, easy-to-handle arc.

MMA +

Pulsing

Vertical-up welding without using the “Christmas tree” technique, but still with reliable root fusion.

Hot start

Prevents a lack of fusion at the start of the weld seam by briefly increasing the current when welding begins.

Arcforce

Arc dynamics can be adjusted from soft to hard.

Antistick

Prevents the electrode from annealing by briefly switching off the welding current.

Cel

100% reliable vertical-down welding with all cellulose electrodes.

TECHNICAL DATA.

TETRIX XQ 230 +



	TETRIX XQ 230 DC		TETRIX XQ 230 AC/DC	
	TIG	MMA	TIG	MMA
Setting range for welding current	3 A - 230 A	5 A - 190 A	3 A - 230 A	5 A - 190 A
Welding current/duty cycle at 40 °C	230 A / 45 % 205 A / 60 % 170 A / 100 %	190 A / 35 % 155 A / 60 % 125 A / 100 %	230 A / 40 % 200 A / 60 % 170 A / 100 %	190 A / 35 % 150 A / 60 % 120 A / 100 %
Open circuit voltage	96 V*		96 V*	
Mains voltage/tolerance	1 x 230 V / -40 % to +15 %		1 x 230 V / -40 % to +15 %	
Mains fuse	1 x 16 A		1 x 16 A	
Rec. generator rating	8,2 kVA		8,8 kVA	
cos φ/efficiency	0.99/87%		0.99/83%	
Insulation class/protection classification	H / IP 23		H / IP 23	
Ambient temperature	-25 °C to +40 °C		-25 °C to +40 °C	
Machine cooling	Fan, temperature-controlled		Fan, temperature-controlled	
Torch connection	5- or 8-pole		5- or 8-pole	
Mains connection lead	3.5 m		3.5 m	
Display size	Expert 3.0: 7" display (not a touchscreen) Comfort 3.0: 7-segment LED		Expert 3.0: 7" display (not a touchscreen) Comfort 3.0: 7-segment LED	
Favourites buttons	5		5	
Safety identification	S CE EAC		S CE EAC	
Harmonised standards used	IEC 60974-1, -3, -10 CLA		IEC 60974-1, -3, -10 CLA	
Dimensions (L x W x H)	550 x 224 x 415 mm		550 x 224 x 415 mm	
Weight	17.5 kg		19.2 kg	

*VRD versions available as a separate machine.

COOL XQ +

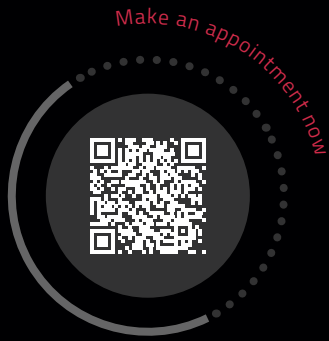


Max. cooling capacity	1,100 W
Cooling capacity at 1 l/min	790 W
Max. delivery height	35 m
Max. pump pressure	3.5 bar
Pump	Centrifugal pump
Machine cooling	Fan, temperature-controlled
Protection classification	IP 23
Safety identification	CE EAC
Harmonised standards used	IEC 60974-1, -2, -10 CLA
Standard configuration	Flow monitor Temperature controller
Dimensions (L x W x H)	588 x 224 x 200 mm
Weight (without coolant)	10.4 kg



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EWM is your partner for the best welding technology. With EWM, you'll weld more efficiently, more reliably and produce higher-quality results. EWM's innovative systems, high-performance welding procedures, digital technologies and services, and expert consultation all support you in achieving perfect results from your welding tasks.

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The content of this document has been researched, prepared and reviewed with all reasonable care. The information provided is subject to change; errors excepted.