



TETRIX XQ 230, 300

IT'S BEGINNING.

YOUR ALL-NEW TIG WELDING EXPERIENCE









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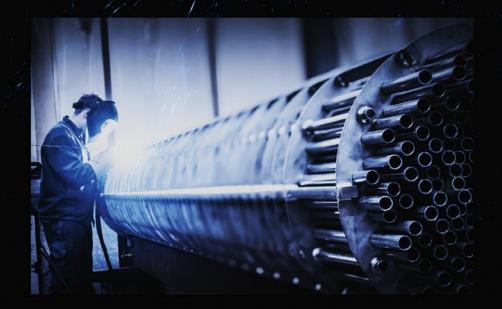


IT'S BEGINNING.YOUR ALL-NEW

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







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.





EVERYTHING, JUST AS YOU LIKE IT.

TETRIX XQ 230 DC | TETRIX XQ 230 AC/DC. TETRIX XQ 300 DC | TETRIX XQ 300 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 AC/DC +

WITH COOL XQ +



ACCESSORIES +



WORKSHOP TROLLEY



CONSTRUCTION SITE TROLLEY







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

50%*

LESS WORK REQUIRED FOR REPETITIVE TACK WELDING – WITH SPOTMATIC.

*up to

4

A VARIETY OF PULSE VERSIONS ARE AVAILABLE:

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

100

PERCENT

BETTER OVERVIEW!

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

100%

DIGITISATION
FOR 100%
REPRODUCIBLE
WELDING
RESULTS.

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.



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.



PROTECTED CONTROL.

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



TIG AND MMA WELDING



XQ

TIG XQ SERIES.

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

Tetrix XQ puls AC/DC

230 A, 300 A



MODULAR

AC/DC WELDING FUNCTIONS

AC balance
AC-Balling
AC frequency
AC special
AC waveforms
Standard AC

AC amplitude balance

Pulsed TIG AC welding

activArc®

Automatic pulsing

HF start Lift arc

Average value pulse welding

spotArc® spotmatic Standard DC Thermal pulsing TIG Antistick

Pulsed TIG DC welding

Antistick

Arcforce

Cellulose electrode compatible

MMA pulse welding

Hot start

Standard MMA



Comfort 3.0 AC



Expert 3.0



AC amplitude balance

Allows adjustment of negative and positive welding current level.



AC waveforms

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



HF start

Prevents tungste non-contact arc ig



AC balance

The perfect balance between the penetration profile and the achievable cleaning effect.



AC special

Switch between AC in the pulsing phase and DC in the fundamental current phase.



Lift arc

Simple ignition of up the welding to the workpiece.



AC-Balling

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



activArc®

Dynamic TIG arc with automatic arc stabilisation.



Average value pu

Allows the user to WPS requirement pulsed mode.



AC frequency

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



Automatic pulsing

In order to increase arc stability and penetration characteristics at low currents, the current is automatically pulsed.



spotArc®

Minimised time reing due to individu



Tetrix XQ puls DC

230 A, 300 A



MODULAR

DC WELDING FUNCTIONS

activArc® Antistick
Automatic pulsing Arcforce

HF start Cellulose electrode compatible

Lift arc MMA pulse welding

Average value pulse welding Hot start spotArc® Standard MMA

spotmatic
Standard DC

TIG Antistick
Pulsed TIG DC welding

Thermal pulsing



Comfort 3.0 DC



Expert 3.0

n inclusions through gnition.



spotmatic

Reproducible welding of uniform tack points.



TIG Antistick

Prevents damage to tungsten electrode in case of inadvertent contact with the workpiece.



Standard AC

Aluminium welding in just one click thanks to perfect presets. Easy adjustment of AC parameters for special applications.



Pulsed TIG AC welding

Reduced distortion and discolouration through energy per unit length and heat input.



Standard DC

Perfect TIG welding with ignition parameters adapted depending on power output.



Pulsed TIG DC welding

Reduces heat input and therefore distortion and discolouration.



implement, for example, s extremely easily, even in

the arc without HF by pulling

rch electrode after touching



Thermal pulsing

The freely adjustable pulsed current and relevant time can be adapted in accordance with the welding power. These precision settings allow for unique weld appearances.









equired for tacking and spot weldlal triggering of the tack points ger.



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.







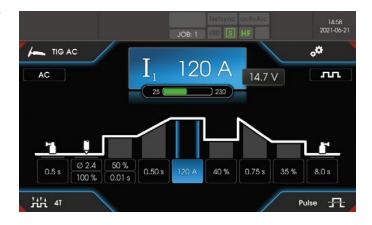


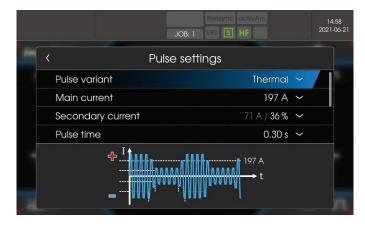
EXPERT 3.0 +

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

FUTURE SOFTWARE
UPDATES FOR EXPERT 3.0
ARE AVAILABLE FOR
DOWNLOAD.

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 TETRIX 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 TETRIX XQ. For those times when it takes a while. Air ducting of the TETRIX 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 TETRIX 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 TETRIX XQ.



HIGHLY STURDY.

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













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.



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.





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 TETRIX 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.





XBUTTON -SMALL BUTTON. **BIG EFFECT.**

The Xbutton makes your TETRIX 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.

WELDING PROCESSES AND FUNCTIONS FOR OPTIMUM WELDING RESULTS









TIG MMA	TIG MMA
	MMA
activArc	activArc
Pulsing	Pulsing
 Average value pulsing 	 Average value pulsing
 Thermal pulsing 	 Thermal pulsing
 Automatic pulsing 	 Automatic pulsing
HF start/lift arc	HF start/lift arc
spotArc/spotmatic	spotArc/spotmatic (tack welding)
(tack welding)	AC frequency
	AC balance
	AC waveforms
	AC special
	AC balling (tungsten balling)
Pulsing	Pulsing
Hot start	Hot start
Arcforce	Arcforce
Antistick	Antistick
Cel	Cel
	Pulsing

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.

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.

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.

$\mathsf{MMA} +$



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.

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

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

TECHNICAL DATA



TETRIX XQ	230 PULS DC	230 PULS AC/DC	
TIG Setting range for welding current	3 A – 230 A	2 A – 230 A	
MMA Setting range for welding current	5 A – 190 A	5 A – 190 A	
TIG Welding current/duty cycle at 40 °C	230 A / 45 % 205 A / 60 % 170 A / 100 %	230 A / 40 % 200 A / 60 % 170 A / 100 %	
MMA Welding current/duty cycle at 40 °C	190 A / 35 % 155 A / 60 % 125 A / 100 %	190 A / 35 % 150 A / 60 % 120 A / 100 %	
Open circuit voltage	96 V*		
Mains voltage/tolerance	1 x 230 V (- 40 % - + 15 %)		
Mains fuse	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 / IP23		
Ambient temperature	-25 °C to +40 °C		
Machine cooling	Fan, temperature-controlled		
Torch connection	5- or 8-pole		
Mains connection lead	3.5 m		
Display size	Expert 3.0: 7" display (not a touchscreen) Comfort 3.0: 7-segment LED		
Favourites buttons	5		
Safety identification	S C € EEL EK		
Harmonised standards used	IEC 60974-1, -3, -10 CLA		
Dimensions (L x W x H) mm Dimensions (L x W x H) inch	550 x 224 x 415 21.7 x 8.8 x 16.3		
Weight kg Weight lbs	17.5 38.6		

^{*}VRD versions available as a separate machine.

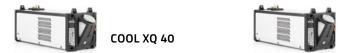


TECHNICAL DATA

TETRIX XQ	300 PULS DC	300 PULS AC/DC
TIG Setting range for welding current	3 A – 300 A	
MMA Setting range for welding current	5 A – 3	300 A
TIG Welding current/duty cycle at 40 °C	300 A / 40 % 270 A / 60 % 220 A / 100 %	
MMA Welding current/duty cycle at 40 °C	300 A / 30 % 260 A / 60 % 210 A / 100 %	
Open circuit voltage	87 V*	
Mains voltage/tolerance	3 x 380 - 400 V (-25 % to +20 %)	
Mains fuse	1 x 16 A	
Rec. generator rating	22,3 kVA	23,4 kVA
cos φ /efficiency	0.99 / 87 %	0.99 / 83 %
nsulation class/protection classification	H / IP23	
Ambient temperature	-25 °C to +40 °C	
Machine cooling	Fan, temperature-controlled	
Torch connection	5- or 8	-pole
Mains connection lead	5.5	m
Display size	Expert 3.0: 7" display (not a touchscreen) Comfort 3.0: 7-segment LED	
Favourites buttons	5	
Safety identification	S C E EK	
Harmonised standards used	IEC 60974-1, -3, -10 CLA	
Dimensions (L x W x H) mm Dimensions (L x W x H) inch	550 x 224 x 415 21.7 x 8.8 x 16.3	
Weight kg Weight lbs	20.5 45.2	22.0 48.5

^{*}VRD versions available as a separate machine.

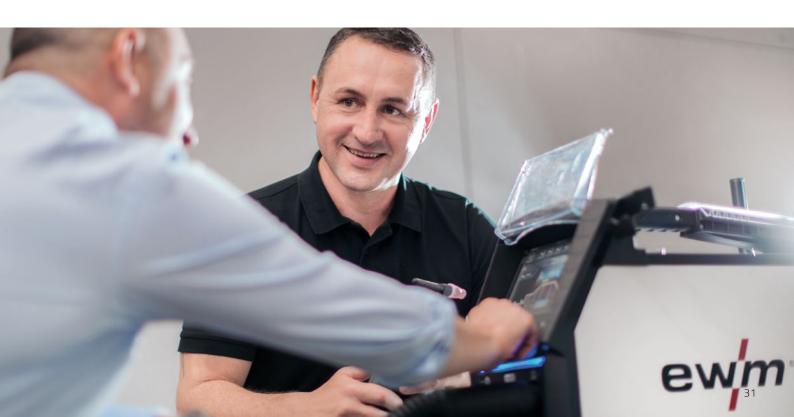






Compatible with	Tetrix XQ 230	Tetrix XQ 300	
Input voltage	230 V	400 V	
Max. cooling capacity	1.100 W		
Cooling capacity at 1 l/min	790 W		
Max. delivery height	35 m		
Max. pump pressure	3,5 bar		
 Pump	Centrifugal pump		
Machine cooling	Fan, temperature-controlled		
Protection classification	IP 23		
Safety identification	C € EML ĽĽ		
Harmonised standards used	IEC 60974-1, -2, -10 CLA		
Standard configuration	Flow monitor, Temperature controller		
Dimensions (L x W x H) mm Dimensions (L x W x H) inch	588 x 224 x 200 23.1 x 8.8 x 7.9		
Weight (without coolant) kg Weight (without coolant) lbs	10	10,4 22.9	

WELDING WITH EWM MEANS: WE'RE HERE FOR YOU!





WE ARE WELDING

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#WEAREWELDING

Follow us







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.



www.ewm-group.com/en/

