

FACT SHEET

Tetrix XQ 230 puls

Tetrix XQ 300 puls

TETRIX XQ 230 PULS / TETRIX XQ 300 PULS



- Latest-generation modular TIG inverter welding machines
- TIG AC/DC¹⁾, TIG DC and TIG pulse
- activArc® and spotArc®
- MMA, MMA pulse, MMA cel, MMA cel pulse
- Robust housing with impact-resistant plastic cover
- Ready for cooling unit connection ex works – guarantees ultimate flexibility in industry and trade
- Splash-proof in line with IP23
- Temperature- and speed-controlled cooling fan – reduced contamination and less noise emissions as fan only runs when needed
- Generator-compatible, even with long mains leads
- High mains voltage tolerance
- Consumables box in the handle – consumables always safely stored and within reach
- LED status bar indicates the current operating status with colours
- Optional network connectivity with eWm Xnet software via LAN or WiFi gateway
- 3.5 m mains lead with a 16 A earthed plug²⁾
- 5.5 m mains lead³⁾

¹⁾ AC/DC version only

²⁾ Tetrix XQ 230 puls only

³⁾ Tetrix XQ 300 puls only

COOL XQ 40 / COOL XQ 41



Cooling unit for modular Tetrix XQ puls welding machines:

- Cool XQ 40 for Tetrix XQ 230 puls, Cool XQ 41 for Tetrix XQ 300 puls
- No additional mains connection required for the cooling unit: the cooling unit is supplied with power via the welding machine
- Flow monitor featured as standard: protects welding torches from overheating and damage caused by low coolant flow
- Temperature-monitored coolant – protects the welding torch from overheating through hot coolant water
- Accessible filling nozzle with easy-to-read filling level indicator (MIN/MAX scale)
- Temperature- and speed-controlled cooling fan – reduced contamination and less noise emissions as fan only runs when needed
- Optional water filter

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Control variants



Expert 3.0 – anything's possible

- 7" high-resolution graphic display with plain text display (no touchscreen)
- Five favourites buttons
- Xbutton for individual access authorisation
- USB interface for software updates and JOB copying
- Click wheel for convenient operation with welder's gloves
- Reliable push-button operation
- Customisable to suit the individual requirements of the user
- Direct access to all main functions
- All parameters at a glance
- Colour screen and graphical support for parameter setting
- 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
- Preconfigured languages for the user menu: CZ, DA, DE, EN, ES, FI, FR, HR, HU, IT, NL, PL, PT, RO, RU, SE, SL & TR



Comfort 3.0 – popular, praised and simply indispensable

- Two large, easy-to-read 7-segment displays
- Five 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/DC* and DC versions available

*AC/DC version

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Overview of TIG welding functions

	DC	AC/DC
Standard DC Perfect TIG welding with ignition parameters adapted depending on power output.	✓	✓
Pulsed TIG DC welding Decreases the heat input, which reduces distortion and discolouration.	✓	✓
Average value pulsing Allows the user to implement, for example, WPS requirements extremely easily, even in pulsed mode.	✓	✓
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.	✓	✓
Automatic pulsing To increase the arc stability and the penetration characteristics with low currents, the current is pulsed automatically.	✓	✓
spotmatic Reproducible welding of uniform tack points.	✓	✓
spotArc® Minimised time required for tacking and spot welding due to individual triggering of the tack points with the torch trigger.	✓	✓
activArc® Dynamic TIG arc with automatic arc stabilisation.	✓	✓
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.	✓	✓
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.	-	✓
AC-Balling Ensures optimum tungsten balling and therefore a stable, easy-to-handle arc.	-	✓
AC frequency Adjustment of the arc force – ideal for thin sheets and fillet welds.	-	✓
AC balance The perfect balance between the penetration profile and achievable cleaning effect.	-	✓
AC amplitude balance Enables adjustment of the negative and positive welding current level.	-	✓
AC waveforms Optimum stability and reduced noise level thanks to adjustable AC waveforms (sine, trapezoidal, square and customised).	-	✓
AC special Switch between AC in the pulsing phase and DC in the fundamental current phase.	-	✓

For more information on the individual welding procedures,
scan the corresponding QR code or simply click it!



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Technical data of the welding machines

Versions	Tetrix XQ 230 DC	Tetrix XQ 230 AC/DC	Tetrix XQ 300 DC	Tetrix XQ 300 AC/DC
Setting range for welding current	3 A–230 A		3 A–300 A	
Duty cycle 40 °C	230 A / 45%		300 A / 40%	
	205 A / 60%		270 A / 60%	
	170 A / 100%		220 A / 100%	
Open circuit voltage	96 V		87 V	
Mains voltage / mains tolerance	1 x 230 V (–40% to +15%)		3 x 400 V (–25% to +20%)	
Mains frequency	50 Hz / 60 Hz			
Rec. generator rating	8.2 kVA	8.8 kVA	22.3 kVA	23.4 kVA
Protection classification	IP23			
Safety identification				
EMC class	A			
Dimensions (L x W x H)	550 mm x 224 mm x 415 mm 21.7 inches x 8.8 inches x 16.3 inches			
Weight	17.5 kg 38.6 lbs	19.2 kg 42.3 lbs	20.5 kg 45.2 lbs	22.0 kg 48.5 lbs
Standards	IEC 60974-1, -3 and -10 CL.A			

Technical data of the cooling units

Type	Cool XQ 40	Cool XQ 41-1
Mains voltage	1 x 230 V (–40% to +15%)	1 x 400 V (–40% to +15%)
Mains frequency	50 Hz / 60 Hz	
Cooling capacity at 1 l/min	790 W	
Max. cooling capacity	1,100 W	
Pump pressure	3.5 bar	
Tank capacity	2.3 l	
Protection classification (when mounted)	IP23	
Safety identification		
EMC class	A	
Dimensions (L x W x H)	588 mm x 224 mm x 200 mm 23.1 inches x 8.8 inches x 7.9 inches	
Weight	10.4 kg 22.9 lbs	
Standards	IEC 60974-1, -2 and -10 CL.A	

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Tetrix XQ DC configuration

DC power source configuration

Selection	Type	Name	PU	Item number	PG	Price
Basic version						
<input type="radio"/>	Tetrix XQ 230 puls DC	TIG DC pulse welding machine including all characteristics and functions, modular	1	090-005630-00000	M3	2.830,00 €
<input type="radio"/>	Tetrix XQ 300 puls DC	TIG DC pulse welding machine including all characteristics and functions, modular	1	090-005692-00000	M3	3.452,85 €
Control						
<input type="radio"/>	OW Expert 3.0	Expert 3.0	1	092-004012-00000	M1	961,00 €
<input type="radio"/>	OW Comfort 3.0 DC	Comfort 3.0 DC	1	092-004088-00000	M1	304,00 €
Torch connection						
<input type="radio"/>	OW 5POL	Welding torch control cable connection: Tuchel, 5-pole, compatible with EWM X technology	1	092-004059-00000	M1	26,15 €
<input type="radio"/>	OW 8POL	Welding torch control cable connection: Burndy, 8-pole	1	092-004060-00000	M1	26,15 €
Mains plug (selection only possible with Tetrix XQ 300 puls)						
<input type="radio"/>	OW CEE 16A/400V	Mains plug, assembled	1	092-008214-00000	M1	34,80 €
Open circuit voltage reduction						
<input type="radio"/>	OW VRD "OFF"	Open circuit voltage reduction at 22 V	1	092-004016-00000	M1	413,00 €
<input type="radio"/>	OW VRD "RU"	Open circuit voltage reduction at 11 V	1	092-004017-00000	M1	413,00 €

Cooling unit selection

Selection	Type	Name	PU	Item number	PG	Price
Basic version						
<input type="radio"/>	Cool XQ 40	Cooling unit for Tetrix XQ 230 puls	1	090-005632-00502	M3	1.136,00 €
<input type="radio"/>	Cool XQ 41-1	Cooling unit for Tetrix XQ 300 puls with 400 V mains voltage	1	090-005693-00502	M3	1.136,00 €

Online shop!

Preconfigured, ready-to-order Tetrix XQ puls DC welding machines and welding torches, options for retrofitting and suitable accessories are available through our online shop!

[Click here and select the right machine!](#)

Or scan the QR code!



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Tetrix XQ AC/DC configuration

AC/DC power source configuration

Selection	Type	Name	PU	Item number	PG	Price
Basic version						
<input type="radio"/>	Tetrix XQ 230 puls AC/DC	TIG AC/DC pulse welding machine including all characteristics and functions, modular	1	090-005631-00000	M3	3.640,00 €
<input type="radio"/>	Tetrix XQ 300 puls AC/DC	TIG AC/DC pulse welding machine including all characteristics and functions, modular	1	090-005691-00000	M3	5.312,85 €
Control						
<input type="radio"/>	OW Expert 3.0	Expert 3.0	1	092-004012-00000	M1	961,00 €
<input type="radio"/>	OW Comfort 3.0 AC/DC	Comfort 3.0 AC/DC	1	092-004014-00000	M1	639,00 €
Torch connection						
<input type="radio"/>	OW 5POL	Welding torch control cable connection: Tuchel, 5-pole, compatible with EWM X technology	1	092-004059-00000	M1	26,15 €
<input type="radio"/>	OW 8POL	Welding torch control cable connection: Burndy, 8-pole	1	092-004060-00000	M1	26,15 €
Mains plug (selection only possible with Tetrix XQ 300 puls)						
<input type="radio"/>	OW CEE 16A/400V	Mains plug, assembled	1	092-008214-00000	M1	34,80 €
Open circuit voltage reduction						
<input type="radio"/>	OW VRD "OFF"	Open circuit voltage reduction at 22 V	1	092-004016-00000	M1	413,00 €
<input type="radio"/>	OW VRD "RU"	Open circuit voltage reduction at 11 V	1	092-004017-00000	M1	413,00 €

Cooling unit selection

Selection	Type	Name	PU	Item number	PG	Price
Basic version						
<input type="radio"/>	Cool XQ 40	Cooling unit for Tetrix XQ 230 puls	1	090-005632-00502	M3	1.136,00 €
<input type="radio"/>	Cool XQ 41-1	Cooling unit for Tetrix XQ 300 puls with 400 V mains voltage	1	090-005693-00502	M3	1.136,00 €

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