


Tetrrix 351 • 451 • 551 AC/DC Smart • Classic • Comfort • Synergic FW

/activArc®


Smart

Classic

Comfort

Synergic


Control	Page	216
Options/accessories	Page	271

- Water-cooled AC/DC TIG inverter welding machine
- Features characteristics for EWM activArc and EWM spotArc at no extra charge
- Adjustable AC waveform, sine, trapezoidal, square current
- Adjustable AC frequency between 50 Hz and 200 Hz
- Adjustable AC balance
- TIG welding with reproducible, electronic HF start
- Safe ignition also for long hose packages
- TIG lift arc welding without HF
- TIG automated pulsing with automatic specification of required pulse parameters
- Non-latched/latched operation
- Clearly structured operating panel, operating elements streamlined to feature the main TIG functions
- Reduced secondary current accessible using torch trigger
- Adjustable up-slope/down-slope
- Spot welding/tacking function
- Spotmatic – halves time required for tacking
- Adjustable gas pre-flows/post-flows
- **MMA-Welding/gouging**
- MMA/gouging, automated pulsing with automatic specification of required pulse parameters
- Ideal for root welding
- Safe, reliable vertical-up and vertical-down welding
- Adjustable hot start current and hot start time
- Adjustable Arcforce
- Antistick function
- Large power reserves thanks to high duty cycle with all components heating up less as a result, guaranteeing a longer service life for machines when in use
- Excellent torch cooling, resulting in cost savings on consumables due to high-performance centrifugal pump and 12-litre water tank
- Energy-saving thanks to high efficiency and standby function
- Mains connection: 3 x 400 V; other mains voltages and multivolt as an option
- High mains voltage tolerances +20%/-25% and therefore fully generator-compatible
- Connection capability for remote control and function torch
- Crane-liftable casing
- Can be optionally networked with LAN or WiFi and EWM Xnet software
- **You will find other functions of the individual controls in the control overview**



Tetrrix	351 AC/DC	451 AC/DC	551 AC/DC
Mains voltage (tolerances)	3 x 400 V (-25 % - +20 %)		
Mains fuses (slow-blow)	3 x 25 A	3 x 32 A	
Open circuit voltage	100 V	80 V	
Setting range for welding current	5 A - 350 A	5 A - 450 A	5 A - 550 A
Duty cycle 40 °C	350 A / 60 %	–	550 A / 60 %
	–	450 A / 80 %	–
	300 A / 100 %	420 A / 100 %	
cos φ	0.99		
Efficiency	85 %		
Dimensions LxWxH in mm	1100 x 455 x 1000	1080 x 690 x 1195	
Weight	132 kg	181.5 kg	



Type	Designation	Item no.
Tetrix 351 AC/DC Smart FW	AC/DC TIG welding machine, mobile, water-cooled, decentral	090-000135-00502
Tetrix 351 AC/DC Classic FW		090-000107-00502
Tetrix 351 AC/DC Comfort FW		090-000108-00502
Tetrix 351 AC/DC Synergic FW		090-000109-00502
TIG 450 GRIP WD 5P 4m	TIG welding torch, water-cooled	394-510993-00600
TIG 450 GRIP WD 5P 8m		394-510993-00608
WK70mm²-4m/Z	Welding lead	092-000013-00000
GH 2x1/4" 2m	Gas hose	094-000010-00001
DM 842 Ar/CO2 230bar 30l D	Pressure regulator with manometer	394-002910-00030
KF 23E-10, -10	Coolant (-10 °C), 9.3 l	094-000530-00000
OW CEE 32A	Factory-fit option, mains plug including fitting	092-008215-00000
KOS26	Customised configuration with assembly for decompact systems	092-002685-00001
KOS27	Commissioning: 1 hour	KOS-V00027-00000
Tetrix 451 AC/DC Smart FW	AC/DC TIG welding machine, mobile, water-cooled, decentral	090-000136-00502
Tetrix 451 AC/DC Classic FW		090-000110-00502
Tetrix 451 AC/DC Comfort FW		090-000111-00502
Tetrix 451 AC/DC Synergic FW		090-000112-00502
TIG 450 GRIP WD 5P 4m	TIG welding torch, water-cooled	394-510993-00600
TIG 450 GRIP WD 5P 8m		394-510993-00608
WK70mm²-4m/Z	Welding lead	092-000013-00000
GH 2x1/4" 2m	Gas hose	094-000010-00001
DM 842 Ar/CO2 230bar 30l D	Pressure regulator with manometer	394-002910-00030
KF 23E-10, -10	Coolant (-10 °C), 9.3 l	094-000530-00000
OW CEE 32A	Factory-fit option, mains plug including fitting	092-008215-00000
KOS26	Customised configuration with assembly for decompact systems	092-002685-00001
KOS27	Commissioning: 1 hour	KOS-V00027-00000
Tetrix 551 AC/DC Smart FW	AC/DC TIG welding machine, mobile, water-cooled, decentral	090-000137-00502
Tetrix 551 AC/DC Classic FW		090-000113-00502
Tetrix 551 AC/DC Comfort FW		090-000114-00502
Tetrix 551 AC/DC Synergic FW		090-000115-00502
TIG 450SC GRIP 5P HFL 4m	TIG welding torch, water-cooled	394-511016-10600
TIG 450SC GRIP 5P HFL 8m		394-511016-10608
WK95mm²-4m/Z	Welding lead	092-000171-00000
GH 2x1/4" 2m	Gas hose	094-000010-00001
DM 842 Ar/CO2 230bar 30l D	Pressure regulator with manometer	394-002910-00030
KF 23E-10, -10	Coolant (-10 °C), 9.3 l	094-000530-00000
OW CEE 32A	Factory-fit option, mains plug including fitting	092-008215-00000
KOS26	Customised configuration with assembly for decompact systems	092-002685-00001
KOS27	Commissioning: 1 hour	KOS-V00027-00000

► * Alternative, not included in the final total

► Welding machines optionally available with different controls



■ Overview

TIG cold wire system, Mobile

Design	Max. welding current	Product name	Cooling	Page
	A		Water-cooled	
Demodular	350 - 550	Tetrix 351 • 451 • 551 Synergic AW FW	•	228
		Tetrix 351 • 451 • 551 AC/DC Synergic AW FW	•	231

TIG cold wire system

Design	Max. welding current	Product name	Cooling	Page
			Water-cooled	
		tigSpeed drive 45 coldwire		230