

TIG Welding Machine for the Professional Welder



- HF ignition or Liftarc
- Infinitely adjustable:
 - Welding current (5A to 160A)
 - Down-Slope time, gas post-flow time
- Gas pre-flow time 0,2sec. (fixed)
- Shielding gas saving thanks to the integrated solenoid valve
- **Optimal machine for all assembly work**
 - Optimized weight of only 8.4 kg
 - Compact construction
 - 230V mains connection voltage
- **MMA welding with excellent ignition and welding characteristics as a result of**
 - Arcforcing
 - Hotstart
 - High open circuit voltage
 - Antistick

Areas of Application

Ideal for Hard Building Site Use Thanks to



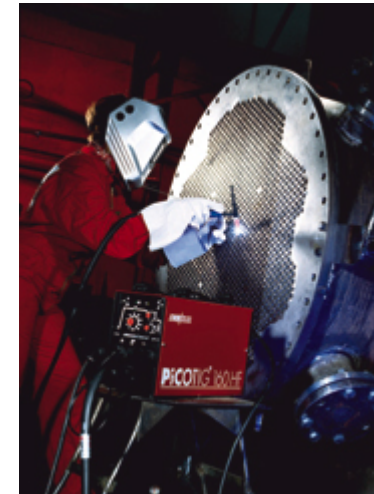
- **Protection classification IP23 – for work in the open air**
- **S-symbol**
- **Operating controls in protected position**
- **Robust metal housing**
- **Problem-free operation at the generator when using long mains supply leads and cable drums**
- **Easy transport using the practical carrying strap, e.g. up and down steps and ladders, in steel structures and on scaffolding**

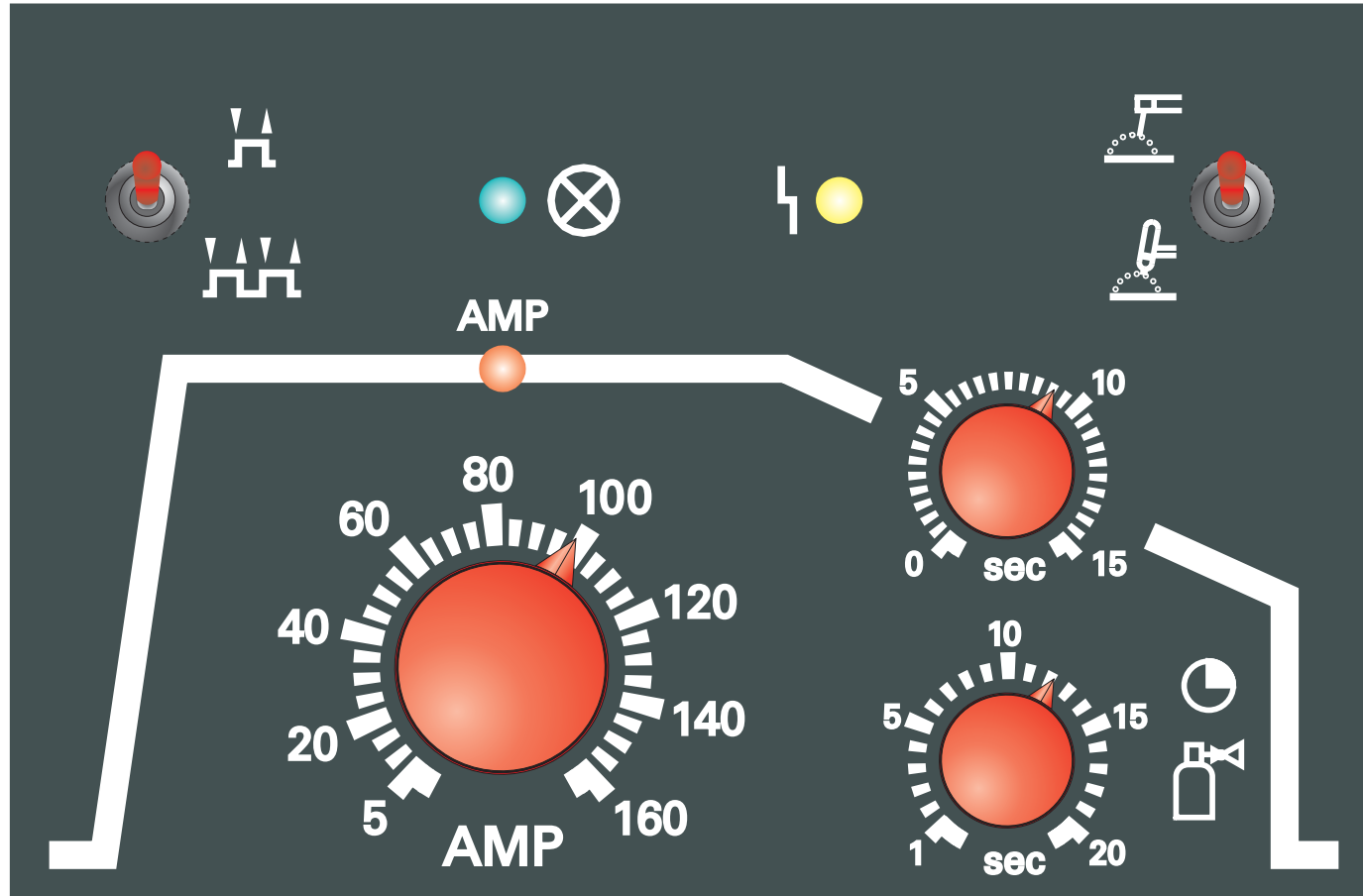
Areas of Application

Industry and Metalworking Trades



Manufacture, assembly and repair of railings, doors, window grilles, staircases, fences, works maintenance etc. in the workshop and in assembly.





Description of Function

- **Rotary dial for**
 - Main current (AMP) 5 – 160A
 - Down-Slope time 0 - 15 sec.
 - Gas post-flow time 1 - 20 sec.
- **Toggle switch for**
 - Non-latched / latched operating mode
 - MMA / TIG
 - Liftarc or HF ignition
- **Signal lights for**
 - Readiness for operation
 - Welding On
 - Fault e.g. excess temperature

Machine Functions for MMA Welding

- **Arcforcing (guarantees excellent welding characteristics)**
- **Hotstart (for safe arc ignition)**
- **Antistick (prevents annealment of the electrode)**

Technical data	
Setting range:	
TIG welding current	5 - 160A
MMA welding current	5 - 140A
Welding voltage	10V – 25.6V
Duty cycle:	
max. welding current at 40°C	TIG
	160A / 25%DC
	100A / 100%DC
	MMA
	140A / 35%DC
	100A / 100%DC
Open circuit voltage	97V
Mains voltage 50/60 Hz (limits of tolerance)	1 x 230V (-40% - +15%) 1 x 240V (-40% - +10%)
Mains fuse (safety fuse - slow-blow)	1 x 16A
Recommended generator rating	8.1 kVA
cosφ at I_{max} / Efficiency	0.99 / 90%
Insulation class / Protection classification	F / IP 23
Dimensions L/W/H in mm	approx. 475 x 160 x 270
Weight not including mains cable	approx. 8.4 kg
constructed to standard	VDE 0544, EN 60 974-1, -symbol, CE

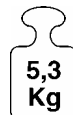
Machine Comparison (1)

PICO 140



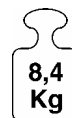
- 140A / 35%
- MMA and TIG Liftarc
- Arcforcing, Hotstart, Antistick

PICOTIG 140



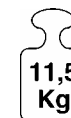
- 140A / 35%
- MMA and TIG Liftarc
- Arcforcing, Hotstart, Antistick
- Torch trigger control
- Solenoid valve
- Gas post-flows

PICOTIG 160 HF



- 160A / 25% (WIG)
- TIG Liftarc and HF ignition
- MMA
- Arcforcing, Hotstart, Antistick
- Torch trigger control
- Solenoid valve
- Down-Slope
- Gas post-flows

TRITON 160 DC



- 160A / 40% (WIG)
- TIG Liftarc and HF ignition
- MMA
- Arcforcing, Hotstart, Antistick
- Gas pre-flows
- Up-Slope
- Down-Slope
- Gas post-flows
- Display for welding current and voltage
- Reduced welding current ready to be called up with 1st and 2nd torch trigger
- Remote control connection socket
- 2. machine with connection for poti-torch



Machine Comparison (2)

PICOTIG 140

5,3
Kg



- 140A / 35%
- MMA and TIG Liftarc
- Arcforcing, Hotstart, Antistick
- Torch trigger control
- Solenoid valve
- Gas post-flows

PICOTIG 160 HF

8,4
Kg



- 160A / 25% (WIG)
- TIG Liftarc and **HF ignition**
- MMA
- Arcforcing, Hotstart, Antistick
- Torch trigger control
- Solenoid valve
- **Down-Slope**
- Gas post-flows

TRITON 160 DC

11,5
Kg



- 160A / 40% (WIG)
- TIG Liftarc and HF ignition
- MMA
- Arcforcing, Hotstart, Antistick
- **Gas pre-flows**
- **Up-Slope**
- Down-Slope
- Gas post-flows
- **Display for welding current and voltage**
- **Reduced welding current ready to be called up with 1st and 2nd torch trigger**
- **Remote control connection socket**
- **2. machine with connection for poti-torch**

TRITON 260 DC

20
Kg



- 260A / 25%
- TIG Liftarc and HF ignition
- MMA
- Arcforcing, Hotstart, Antistick
- Gas pre-flows
- Up-Slope
- Down-Slope
- Gas post-flows
- **MIG/MAG welding with optional WF unit**
- **Pulse** (internally adjustable)
- **Standard connection for UP/DOWN and poti-torch**
- Display for welding current and voltage
- Reduced welding current ready to be called up with 1st and 2nd torch trigger
- Remote control connection socket