

VARTIG 221 DC, 301 DC, 221 AC/DC, 301 AC/DC



PORTABLE AND POWERFUL

PULSE FREQUENCY
up to 2000 Hz

COLD TACK
Spot welding with small heat input.

TIG 2 stroke and
4 stroke MMA

“CYCLE” FUNCTION
allows, by simply pressing the torch trigger, to continuously switch between two current values, previously preselected.

“EASY PULSE”
feature, in function of the chosen peak current, in a simple and automatic way will synergically generate an adequate pulse frequency (between 0.5 and 500 Hz) and a base current, both readjustable in a synergic way.

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USER FRIENDLY INTERFACE

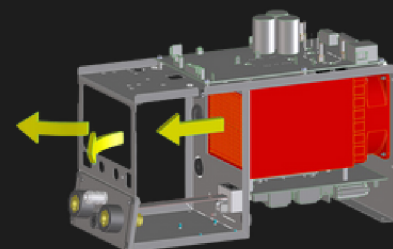


FOR USE IN:

- Steel constructions
- Maintenance
- Petrol and chemical industry
- Food industry
- Agroculture
- Heating and air-conditioning
- School

TUNNEL COOLING SYSTEM

"Tunnel" fan cooling system, allow operation in the toughest work environment.



SMALL SIZE

Big performance

10A FUSE (301) 16A FUSE (221)

Huge power

POWER AND PORTABILITY

Plug and Weld anywhere

ENVIRONMENT FRIENDLY

Over 30% current saving

OPEN SOFTWARE

For enhanced use

FAST

Up to 2000 Hz, for best evernarrow arc

SQUARE WAVE

Up to 250 Hz- superior finishing in AC

MAINS FLUCTUATIONS PROOF

Over 100m mains cable

GENERATOR SET AND VRD SAFE

VARTIG

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VARTIG AC/DC – curve shapes

DYNAMIC TIG

Square wave: high arc dynamics for all applications

SOFT TIG

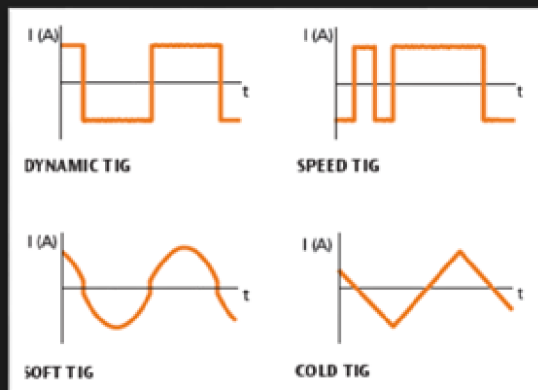
Sinusoidal wave: smoother and softer arc with a reduced noise, ideal for medium thickness

SPEED TIG

Mixed wave: optimal penetration at high welding speed and low consumption of the electrode

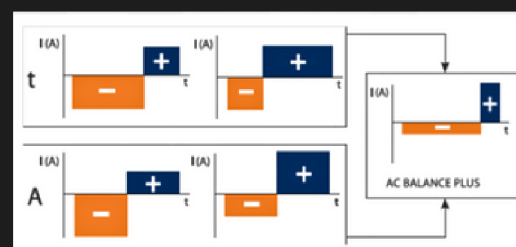
COLD TIG

Triangular wave: low heat transfer with reduced deformation, ideal for small thickness



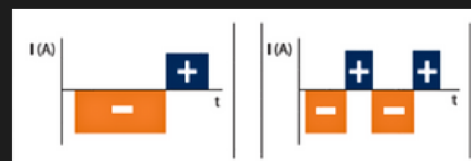
BALANCE PLUS

Possibility of independently adjust both **current time (t)** and its **amplitude (A)** while staying in either positive or negative polarity, by offering a perfect control of penetration and arc cleaning with a drastic reduction in lateral undercuts.



FREQUENCY CONTROL IN AC

Frequency adjustment of the various AC wave shapes for better directional control, eduction of the thermally altered area, deeper penetration and electrode lower wearing out.



Model		Vartig 221 DC TIG / MMA	Vartig 301 DC TIG / MMA	Vartig 221 AC/DC TIG / MMA	Vartig 301 AC/DC
Input power $\pm 20\%$		230	400	230	400
	kVA	6,0 / 6,6	9,1 / 9,2	6,5 / 7,0	9,6
Fuse slow (I2 100%)		16	10	16	10
Welding current area (A)		5-220 / 5-180	5-300 / 10-270	5-220 / 5-180	5 - 300
	35%	220 / 180 (30%)	300 / 270	220 / 180 (30%)	300
Duty Cycle (ED / 40 °C)	60%	190 / 150	250 / 230	180 / 150	250
	100%	160 / 120	210 / 200	140 / 120	210
IP		23 S			
Dimensions (LxWxH) (mm)		465x185x390	495x185x390	465x185x390	495x185x390
Weight (kg)		14	17,5	15,5	19