TIG-GTAW
AC/DC - HF
THREE-PHASE

3 → 400A

TITANIUM 400 AC/DC

Ref. 013568

INVEST IN THE FUTURE

The TITANIUM 400 AC/DC is a high-performance TIG AC/DC generator (400 A to 60%) designed to offer a wide choice of welding processes (TIG AC, DC, MMA). It can be used to weld all types of materials; mild steel, stainless steel, aluminium, copper, titanium. Also ideal for welding thin gauge, its Pulse mode reduces heat input and provides better arc control. Intuitive and highly functional, its digital interface allows you to change welding parameters with ease.

5 TIG/GTAW WELDING MODES

DC
- **DC Standard:** DC welding on most ferrous materials.
- **DC Pulse:** limits the heat input of the parts to be welded. Ideal for very thin sheets.

AC
- **AC Standard:** welding of aluminium and its alloys (Al, AlSi, AlMg, AlMn...).
- **AC Pulse:** limits the heat input rise of the parts to be welded. Ideal for very thin sheets.
- **AC Mix:** AC and DC current alternation accelerates productivity on aluminum assemblies.

Delivered without accessories
(optional trolley)

AUTOMATION & ROBOTICS

- **Connect 5 mode** to control the generator from a console or PLC.
- Connectable via an optional bridge for robot use.

OPTIMIZED SETTINGS

- **4 tacking modes :**
  - Spot / Multi Spot: traditional tacking before welding thin sheet metal.
  - Tack / Multi Tack: ultra-precise tacking and without oxidation reducing the risk of heat input.
  The points are invisible in the final weld bead.
- **2 types of start-up :** HF (without contact) or LIFT (with contact) for electro-sensitive environments.
- **3 trigger modes:** 2T, 4T and 4T LOG
- **Parameter setting of AC and Pulse waveforms,** facilitating arc control and penetration while reducing noise level.
- Automatic detection of the torch : compatible with trigger, double button and potentiometer torches.

SMART

- **SYNERGIC mode:** offers a configuration adapted to the type of welding after entering 3 data: type of material, thickness to be welded and welding position.
- **E-TIG mode:** ensures a constant bead width and penetration, regardless of the torch's position in relation to the part (welding energy control).

ADVANCED INTUITIVITY

- New simplified HMI focused on the navigation habits of TIG welders (EASY).
- Ideal for compliance with WPQR and WPS (EXPERT and ADVANCED).
- Updatable machine and synergies via USB key.
- Cooling unit (ref. 013537) and trolley (ref. 037328) optional.
- Recording of 100 programs/jobs per process for repetitive tasks (can be saved on USB stick).
- Remote control (optional pedal or manual) connectable without tools.
- Intelligent ventilation management to reduce power consumption, dust extraction and substation noise.

3 interface levels for the user:
- EASY (simplified display)
- EXPERT (full display)
- ADVANCED (specific applications)

SMAW/MMA WELDING

- **MMA:** coated, rutile, basic and cellulosic electrodes (up to Ø 8 mm).
- **MMA AC:** allows welding without magnetic disturbance of the arc.
- **MMA Pulse:** developed for welding in an upright vertical position.

ACCURATE

- Calibration mode of welding accessories, to adjust the measurement of the voltage and improves the calculation of the energy.
- ENERGY mode, display and calculation energy after welding according to the standards EN1011-1, ISO/TR 18491 and QW-409.
- Portability: load/backup user JOBs and machine configuration from a USB key.
- Traceability: Trace/record all welding steps, bead by bead, during industrial manufacturing according to EN 3834.

ROBUST

- IP 23 classification for outside use.
- Reinforced bodywork and HMI protected by a protective housing.

	50/60 Hz	35%	I_2 TIG DC	I_2 TIG AC	I_2 MMA	INTEGRATED TECHNOLOGY			TIG - MMA	U_0							
		A	A	A	A	PULSE	SR	CEL	EN 60974-1 (40°C)	V	mm^2	W	cm	kg	IP	Protected & compatible power generator (+/-15%)
	400 V - 3~	32	3 → 400	5 → 400	5 → 400	0.1 → 2500 Hz (TIG DC) 0.1 → 500 Hz (TIG AC)	▪	▪	400 A @ 60% 360 A @ 100%	85	70/95	35 (TIG) 170 (MMA)	68 x 30 x 54	43	IP 23	30 kVA

CE - EN 60974-1

MADE in FRANCE

www.gys.fr