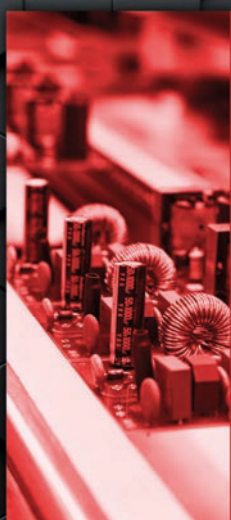




CATA  
LOGUE  
2021

WELDING

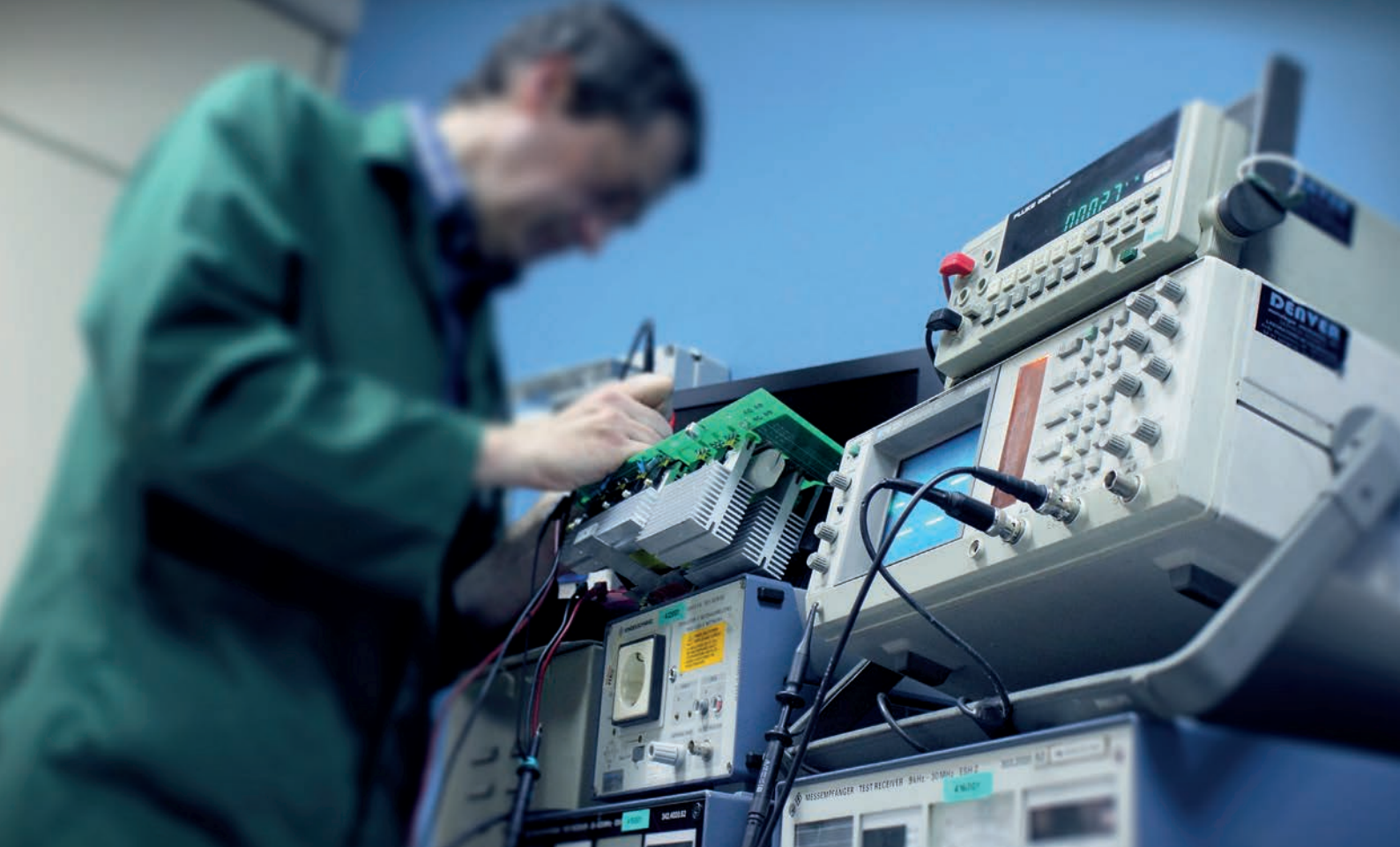


MMA • MIG/MAG • TIG • PLASMA • MASKS • TORCHES • ACCESSORIES









EMC Test Rep  
Applicant: STAYER IBERICA S.  
Product: Welding machine  
Model: SUPER PLUS 120, ST  
CITYWORK 1250

In accordance with EN 6097  
Prepared for: STAYER IBERICA S./  
C/ SIERRA CAZORLA 7, 28320 PÍO

Report Number: 4852020293500  
Reported for: NAME  
Approved By: Jun Bao  
Prepared by: Feng Liu

Signature in this document has been checked by:  
TUV SÜD Certification and Testing  
(China) Co., Ltd.

CE  
Attestation of Conformity  
No. NBA 109800 0005 Rev. 00

Holder of Certificate: STAYER IBERICA S.  
C/ SIERRA CAZORLA 7  
28320 PÍO  
SPAIN

Product: Arc welding machine  
Model(s): SUPER PLUS 1  
Parameters: Rated voltage:  
Rated frequency:  
Max. output power:  
Max. weld current:  
Duty cycle:  
Protection:  
Degree of  
Remark:  
EN 6097

Tested according to:  
This Attestation of Conformity is issued:  
2014/53/EU relating to electrical equip  
that the listed equipment complies with  
based on the technical specifications  
sample submitted for testing and cert  
Test report no.:  
Date: 2020-11-09

Page 1 of 1  
After preparation of the  
required CE marking  
responsibility of the n  
TUV SÜD Product

## Attestation of Conformity

No. E8A 109800 0004 Rev. 00

Holder of Certificate: STAYER IBERICA S.A.  
C/ SIERRA CAZORLA 7  
28320 PÍO  
SPAIN

Name of Object: Arc welding machines  
Welding machine

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/53/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with all essential requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

Test report no.: 4852020293500

Date: 2020-09-22

(Jun Bao)

Page 1 of 2  
After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

TUV SÜD Product Service GmbH • Certification Body • Rüdigerstraße 65 • 80339 Munich • Germany

TUV®





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## Inverter Protection OVERCONTROL



- **2 POLES:** Total disconnection, phase and neutral
- **LIMITS:** Adjustable limits UP & DOWNS
- **NO RELAYS:** No mechanical contact

FEATURES		OVERCONTROL
Voltage	V	200 50 Hz - 400 Hz
Nominal Amperage	A	16 Amp RMS under nominal voltage
Max. Amperage	A	40 Amp RMS under nominal voltage
Adjustable protection	V	LO 140-240V / HI 240V - /400V/3
Fixed protection	V	< 300V, 50 Hz - 400 Hz
Power consumption	W	50
Efficiency	%	99,98
Class Protection		IP20
Display accuracy	%	± 4
Size	cm	11.3 x 12 x 14
Power cable		2.1m / 3 x 2.5 mm <sup>2</sup>
Weight	Kg	1.6

### VOLTAGE PROTECTION FOR WELDING GROUPS

The vast majority of welding equipment on the market has a thin +/-10% protection margin of voltage rises and downs. The majority of standard welding equipment has a low protection against peaks and voltage transients.

#### INVERTER WITH OVERCONTROL

1. There is a complete protection from lows, highs and peaks due to the overcontrol interposition between power and the equipment.
2. The equipment is disconnected until its power input is safe again, after a 2-second security period for stability.

## MMA PLUS

FEATURES		PLUS 200 DIG GE	PLUS 200 DIG GEK
Output current	A	200	200
Voltage	V	230	230
Generator	KVA	4-10	4-10
Duty Cycle	%	30	30
Max. electrode	mm	5	5
Weight	Kg	5	5
Carry case (K)		X	✓
Size		16 x 29 x 20	16 x 29 x 20
DINSE Connector	ø	1/2" (10-25)	1/2" (10-25)



- Compact inverter design for coated MMA electrode welding. Suitable for TIG welding.
- **Easy welding:** specially adjusted for simple operation. Ideal for inexperienced users. Includes: Hot Start (easy arc-starting), Arc Force (to keep the arc continuum) and Anti-Stick (to avoid stuck electrodes failures)
- **Robust:** Oversized parts. Conservative adjust for long life without failure
- **Solid:** Reinforced steel structure with anti-shock protection system
- **High-quality:** Reliable high quality components for long life without failures.
- Ready for a stabilized electric generator, bearing up to 15% voltage rises and downs.

INCLUDES		PLUS 200 DIG GE / K
Power Cable	mm	2 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 16 mm <sup>2</sup>
electrode cable + clamp	mm	2.5 m x 16 mm <sup>2</sup>
Hammer - Brush		✓



## MMA SUPER PLUS



Use STAYER 100% above 30°C air

HIGH PERFORMANCE EQUIPMENT  
WITH REDUCED DIMENSIONS



FEATURES		SUPER PLUS 120 GE K	SUPER PLUS 140 GE K	SUPER PLUS 160 GE K
Output current	A	120	140	160
Voltage	V	230	230	230
Generator	KVA	3-5	3-5	4-6
Duty Cycle	%	100	100	100
Max. electrode	mm	3.2	4	4
Weight	Kg	1.9	2.2	2.4
Size		23.5 x 15.5 x 9	24 x 15.5 x 9	25 x 15.5 x 9
Carry case (K)		✓	✓	✓
DINSE Connector	ø	3/8" (10-25)	3/8" (10-25)	3/8" (10-25)

- Improved evolution of PLUS range. Professional duty cycle and reduced size, preserving the same simplicity and easy-work as PLUS range. Adding ARM Cortex - M3, 32 Bits microprocessor control.
- Compact inverter design for coated electrode welding. Suitable for basic TIG welding.
- **Easy welding:** Specially adjusted for simple operation. Ideal for inexperienced users. Includes: Hot Start (quick arc-starting), Arc Force (to keep the arc continuum), and Anti-Stick (to avoid stuck electrodes).
- **Solid:** Reinforced steel structure with anti-shock protection system and professional 22 screws secured case.
- **High-quality:** Reliable high quality components for long life without failures.
- Ready for a stabilized electric generator, bearing up to 15% voltage rises and downs.

INCLUDES		SUPER PLUS 120 GE K	SUPER PLUS 140 GE K	SUPER PLUS 160 GE K
Power Cable	mm	2 m x 1.5 mm <sup>2</sup>	2 m x 1.5 mm <sup>2</sup>	2 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 10 mm <sup>2</sup>	1.5 m x 10 mm <sup>2</sup>	1.5 m x 16 mm <sup>2</sup>
electrode cable + clamp	mm	2.5 m x 10 mm <sup>2</sup>	2.5 m x 10 mm <sup>2</sup>	2.5 m x 16 mm <sup>2</sup>
Hammer - Brush		✓	✓	✓

Use STAYER 100% above 30°C air

HIGH PERFORMANCE EQUIPMENT WITH  
REDUCED DIMENSIONS



FEATURES		CITYWORK 1250 GE K	STE 1250 GE K	CITYWORK 160 GE K
Output current	A	125	125	160
Voltage	V	230	230	230
Generator	KVA	3	3	2 - 4
Duty Cycle	%	100	100	100
Max. electrode	mm	3.2	3.2	4
Weight	Kg	2.5	2.5	2.7
Size	cm	23.5 x 1.5 x 9	23.5 x 1.5 x 9	25 x 15 x 10
Carry case (K)		✓	✓	✓
DINSE Connector	ø	3/8 (10 - 18)	3/8 (10 - 18)	3/8" (10-25)

**NEW**

Check Availability

- Managed by a fast powerful 32-bit STM32F103 microprocessor. Real time operating system (RTOS), and full control operation through software for the best welding quality on it's range.
- **Easy welding**, specially adjusted for a simple operation. Ideal for inexperienced users. Includes STAYER WELDING smart control, which consists of: Hot Start (quick arc-starting), Arc Force (to keep the arc continuum), and Anti-Stick (to avoid stuck electrodes).
- 100% duty cycle with over 30°C air temperature due to the last generation IGBTs with Eoff = 0.15 mJ, and no-load speed = 64Vdc.
- New version, with important improvements in design, IGBTs, transformers, filtering and logic
- Generator-ready

INCLUDES		CITYWORK 1250 GE K	STE 1250 GE K	CITYWORK 160 GE K
Power Cable	mm	2 m x 1.5 mm <sup>2</sup>	2 m x 1.5 mm <sup>2</sup>	1.8 m x 1.5 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 10 mm <sup>2</sup>	1.5 m x 10 mm <sup>2</sup>	1.5 m x 16 mm <sup>2</sup>
electrode cable + clamp	mm	2.5 m x 10 mm <sup>2</sup>	2.5 m x 10 mm <sup>2</sup>	1.5 m x 16 mm <sup>2</sup>
Hammer - Brush		✓	✓	✓



## MMA 110V & DUAL VOLTAGE



FEATURES		CITYWORK 140 LV GE K	CITYWORK 180 DV GE K	POTENZA 200 BITENSIÓN
110V Output current	A	140	120	160
230V Output current	A	-	180	210
Voltage	V	110	110 / 230 BITENSION	110/230 BITENSION
Generator	KVA	5 - 10	6 - 10	3 - 8
Max. electrode	mm	4.0	3.2 - 5	4.0 - 5.0
Weight	Kg	2	2.7	5
Size	cm	26 x 15 x 11	27 x 15 x 11	42 x 14 x 30
Carry case (K)		✓	✓	✓
DINSE Connector	ø	3/8" (10-25)	3/8" (10-25)	1/2" (16 - 35)

- Welding groups specially designed for **110V** environments or to be able to adapt to **110 & 230V** voltage suppliers.
- **Easy welding**, specially adjusted for a simple operation. Ideal for inexperienced users. Includes STAYER WELDING smart control, which consists of: Hot Start (easy arc-starting), Arc Force (to keep a stable arc), and Anti-Stick (to avoid stuck electrodes).
- Generator-ready
- **CITYWORK**: Managed by a powerful and fast 32-bit STM32F103 microprocessor. Real time operating system (RTOS), and full control operation by STAYER's property software for superior quality.
- 100% duty cycle with 30°C air temperature due to the last generation IGBTs with  $E_{off} = 0.15 \text{ mJ}$ , and no-load speed = 64Vdc.
- New version, with important improvements in design, IGBTs, transformers, filtering and logic
- **POTENZA**: Works with 110/230V with automatic change of voltage. TIG Lift Arc enabled.

INCLUDES		CITYWORK 140 LV GE K	CITYWORK 180 DV GE K	POTENZA 200 BITENSIÓN
Power Cable	mm	1.8 m x 3 mm <sup>2</sup>	1.8 m x 3 mm <sup>2</sup>	3 x 25 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 14 mm <sup>2</sup>	1.5 m x 16 mm <sup>2</sup>	2 x 25 mm <sup>2</sup>
electrode cable + clamp	mm	1.5 m x 14 mm <sup>2</sup>	1.5 m x 16 mm <sup>2</sup>	2 x 25 mm <sup>2</sup>
Hammer - Brush		✓	✓	✓

Use STAYER 100% above 30°C air

ROBUST & HIGH PERFORMANCE EQUIPMENT WITH REDUCED DIMENSIONS



**NEW**

Check Availability

FEATURES		POTENZA 160 B
110V Output current	A	160
Voltage	V	230
Generator	KVA	4 - 10
230V Duty Cycle	%	100
Max. electrode	mm	5
Weight	Kg	5
Carry case (K)		✓
DINSE Connector	ø	3/8" (10 - 25)

- Compact inverter design for coated electrode welding. Suitable for basic TIG welding.
- **Solid:** Reinforced steel structure with anti-shock protection system and professional 22 screws secured case.
- **High-quality:** Reliable high quality components for long life without failures.
- Ready for a stabilized electric generator, bearing up to 15% voltage rises and downs.
- **Easy welding,** specially adjusted for a simple operation. Ideal for inexperienced users. Includes STAYER WELDING smart control, which consists of: Hot Start (easy arc-starting), Arc Force (to keep a stable arc), and Anti-Stick (to avoid stuck electrodes).
- Generator-ready
- 100% duty cycle with 30°C air temperature due to the last generation IGBTs with  $E_{off} = 0.15 \text{ mJ}$ , and no-load speed = 64Vdc.

INCLUDES		POTENZA 160 B
Power Cable	mm	2 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 16 mm <sup>2</sup>
Electrode cable + clamp	mm	2.5 m x 16 mm <sup>2</sup>
Hammer - brush		✓



## POTENZA RANGE

**HIGH PERFORMANCE AND CLASSIC CONTROL,  
ROBUST EQUIPMENT WITH  
STANDARD DIMENSIONS**

**OPTIMAL WELDING  
WITH CELLULOSIC /ALUMINUM ELECTRODES.  
INCLUDES TIG LIFT ARC**



FEATURES		POTENZA 200 GE K	POTENZA 200 GE	POTENZA 200 CEL GE K
Output current	A	200	200	200
Voltage	V	230	230	230
Generator	KVA	6	6	6
Duty Cycle	%	60	60	60
Max. electrode	mm	5	5	5
Weight	Kg	6	6	6
Size		42 x 14 x 30	42 x 14 x 30	42 x 14 x 30
Carry case (K)		✓	X	✓
DINSE Connector	ø	1/2" (10-25)	1/2" (10-25)	1/2" (10-25)

-Electronic equipment for standard coated MMA electrode welding with a 60% duty cycle. High-quality toroidal transformer.

-High-quality and great duty cycle.

-**Robust:** reinforced steel structure with an anti-shock protection system.

-Productive equipment. Includes: Hot Start (quick arc-starting), **Arc Force** (to keep the arc steady), and **Anti-Stick** (to avoid stuck electrodes).

-**High quality:** Over dimensioned parallelized bridges and relay, 400V power capacitors and 600V commutators. Fairchild IGBTs for a great performance and 12 operational amplifiers makes a perfect logical control for a classic analogic soft and easy welding.

-Double pulse encoder current control and push pull drivers with a 30V dynamic margin.

-DINSE 1/2" output connection for the highest power transmission.

-Real high luminosity 3x7 segments display for a precise power adjustment.

-**Versatile:** Ready to be used with stabilized electricity generators, bearing up to 17% voltage rises and downs.

INCLUDES		POTENZA 200 GE K	POTENZA 200 GE	POTENZA 200 CEL GE K
Power Cable	mm	2 m x 2.5 mm <sup>2</sup>	2 m x 2.5 mm <sup>2</sup>	2 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	2 m x 25 mm <sup>2</sup>	2 m x 25 mm <sup>2</sup>	2 m x 25 mm <sup>2</sup>
Electrode cable + clamp	mm	2.6 m x 25 mm <sup>2</sup>	2.6 m x 25 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>
Hammer - brush		✓	X	✓

## PROGRESS RANGE

OPTIMAL PERFORMANCE WITH DIFFERENT ELECTRODE TYPES  
DIAMETER SETTINGS AND ARC FORCE SETTINGS

**NEW**

Check Availability



**SYNERGIC**



**Control panel**  
- Synergic settings  
- TIG lift arc PRO  
- External Arc Force & VRD  
- Silent fan

FEATURES		PROGRESS 1600	PROGRESS 2021
Output current	A	160	200
Voltage	V	230	230
Generator	KVA	4 - 6	5 - 8
Duty Cycle	%	100	60
Max. electrode	mm	1.6 - 4.0	1.6 - 6
Weight	Kg	3	3.5
DINSE Connector	Ø	3/8 (10 - 25)	1/2 (20 - 35)

- Electronic arc welding equipment **for all kinds of coated electrodes.**
- Easy and direct **synergic** set up based on **electrode diameter.**
- Clean **TIG Lift Arc** for non contaminated welding.
- For specially safe welding **VRD** according to IEC 60974 is available, Low voltage on the initial arc charge.
- Incremental Arc Force external adjustment for all kinds of electrode welding.
- Control panel managed by STAYER software with automatic electrode diameter selection, profesional Arc-Force settings, clean TIG Lift Arc & VRD to enable welding on restricted areas.
- Easy welding, even for inexperienced users, thanks to the STAYER intelligent control based on microprocessor. Includes advanced versions of Hot Start, Arc Force & Anti Stick for an easy electrode charging, easy welding with any type of electrode and to avoid unintended electrode sticking.
- Completely ready to work with stabilized generators.
- Solid and safe construction under european regulations: 2014/35/UE, 2014/30/EU, 2011/65/EU, IEC 60974-1 e IEC 60974-10.
- Last generation IGBTs, Eoff=0.13mJ, no load voltage=62Vdc
- **PROGRESS 2021** incorporates 4 diode bridges for an increased power and stability

INCLUDES		PROGRESS 1600	PROGRESS 2021
Power Cable	mm	2.5 m x 2.5 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 16 mm <sup>2</sup>	1.5 x 25 mm <sup>2</sup>
Electrode cable + clamp	mm	2.5 m x 16 mm <sup>2</sup>	2.5 x 25 mm <sup>2</sup>
Hammer - brush		✓	✓



## PROGRESS RANGE

Use STAYER 100% above 30°C air



### ADJUSTABLE PARAMETERS

MCU control with complete welding parameters professional adjustment with different electrode types.

1. TIG LIFT ARC.
2. Arc Force adjustment
3. Hot start adjustment.
4. ON/OFF VRD
5. Silent fan



FEATURES		PROGRESS 1700 XP
Output current	A	170
Voltage	V	62
VRD	V	16
Generator	KVA	5
Duty Cycle	%	100
Max. electrode	mm	5
Weight	Kg	4.7
Carry case (K)		✓
Size	cm	16 x 11 x 12

RUTILE	E 6013	20	40	50-75 A	95-120 A	140-170 A
	E 7024	10	30	-	120-170 A	150-170 A
BASIC	E 7016	50	50	80-100 A	100-140 A	130-170 A
INOX	E 316L	30	30	60-80 A	80-110 A	110-140 A
CAST	E NiFe-CI	60	40	70-90 A	90-130 A	120-160 A
CELLULOSIC	E 6010	100	100	40-70 A	60-100 A	90-150 A
ALUMINIUM	EL AISi12 12 Si	100	50	35-65 A	55-90 A	80-140 A

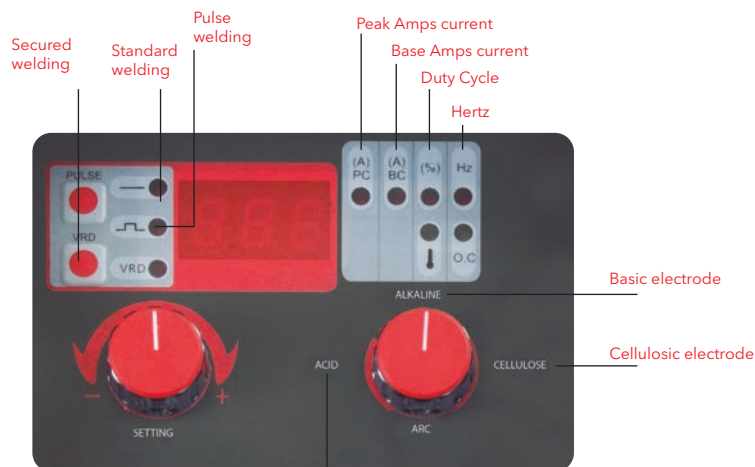
- Electronic equipment for standard coated MMA electrode welding.
- Programmed for all kind of electrodes welding, including: **rutile, basic, cellulosic, aluminium, high performance and INOX.**
- Ready for **TIG lift arc** welding by tungsten electrode under inert atmosphere.
- Suitable for all kind of medium-duty work in maintenance, construction and metallic structures.
- **170A on 100%** duty cycle and a **62Vdc** no-load speed.
- Professional control which consists of: Hot Start (quick arc-starting), Arc Force (to keep the arc steady) and Anti-Stick (to avoid stuck electrodes).
- Fan control **SILENT system**. Avoids noise, dirt and extends the fan's service life.
- Electrical equipment prepared equipment for stabilized generators, AVR and Inverter usage.
- Solid construction under the European specifications: 2011/65/EU, 2014/35/EU, 2014/30/EU, IEC 60974.
- High quality components and pure copper in cords and transformers.
- Fast and self-protected 600V IGBTs and ferrite toroidal power core transformer.
- **VRD for special security jobs.**

INCLUDES		PROGRESS 1700 XP
Power Cable	mm	2 x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	1.3 x 16 mm <sup>2</sup>
Electrode cable + clamp	mm	2.3 x 16 mm <sup>2</sup>

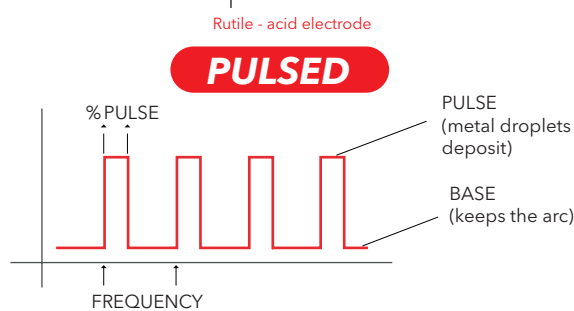
### OPTIMAL PERFORMANCE ON THIN SHEETS AND VERTICAL POSITION REPROGRAMMABLE FOR ALL ELECTRODE TYPES



- Special pulse system
- Silent fan



FEATURES		PROGRESS 200 PULSED
Output current	A	200
Voltage	V	230
Generator	KVA	3 - 8
Duty Cycle	%	60
Max. electrode	mm	6
Weight	Kg	6
DINSE Connector	Ø	1/2 (16 - 35)



- Electronic equipment for high-quality MMA coated electrode welding: **basic, cellulosic, great performance, INOX and rutile.**
- Suitable for any kind of maintenance, construction and steel structures fields work.
- In addition to its classic power settings, only managing output amperes for coated electrodes, 2 professional functions are included:
  - 1- Advanced configuration for **pulsed welding** coated electrode. Allows **thin thickness in requested positions such as vertically, above heads and tubes (all ASME 3G, 4G and 5G).** This is possible to the **pulsed arc system** where a **base-current** is used to keep the arc stability. Also, a **peak current for metal droplets deposition. Depending on each work, the base, current peak, percentage of time of every phase and the operating frequency are adjusted.**
  - 2- Type of electrode configuration that guarantees an **optimal rutile, basic, cellulosic, aluminium, inox, foundry, high efficiency, etc. welding.** As being an external configuration, the right response would be adjusted by the professional regardless the preset theoretical settings.
- Suitable for TIG coated tungsten electrode welding under inert atmosphere.
- Easy welding. Ideal for inexperienced users due to the STAYER WELDING smart control which consists of: Hot Start (quick arc-starting), Arc Force (to keep the arc continuum), and Anti-Stick (to avoid stuck electrodes), in order to optimize the arc ignition as well as to improve its stability while welding and avoid electrodes sticking by wrong usage.
- Anti-impact and anti-fall mechanical robustness. Inner anti-shock structure.
- Solid construction outweighing the European specifications: 2011/65/EU, 2014/35/EU, 2014/30/EU & EN/IEC 60974.
- Over dimensioned design for the highest robustness. High-quality components and pure copper in transformers and cords.
- Ultimate components: **high-range MCU software control**, over dimensioned **ON-OFF switch at 63A**; **fast 600V IGBT commutators**; **Double diodes bridge** and an over dimensioned **soft-start high-power AC relay**; **high-performance microprocessor**, high-range based on UC3846 PWM modulator; unique HG power transformer with a super-cooling double toroidal core.
- **Includes a VRD device.** Reduces no-load voltage from 76Vdc to 9Vdc for works where no-load low-voltage are required under safety-regulations.
- Generator-ready

INCLUDES		PROGRESS 200 PULSED
Power Cable	mm	3 m x 3.0 mm <sup>2</sup>
Ground cable + clamp	mm	2 m x 25 mm <sup>2</sup>
Electrode cable + clamp	mm	3 m x 25 mm <sup>2</sup>
Hammer - brush		✓



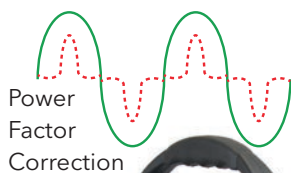
## PROGRESS PFC

Use 100% above 30°C air

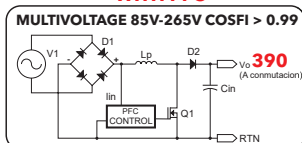
- Connectable extension cables of 250 meters section of 4 mm<sup>2</sup>  
and 500 meters section of 6 mm<sup>2</sup>

### MULTI- VOLTAGE

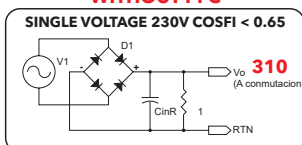
- Works from 85 a 265 v
- Saves up to 50% power
- TIG Lift Arc.
- Professional Arc Force
- Silent fan



### WITH PFC



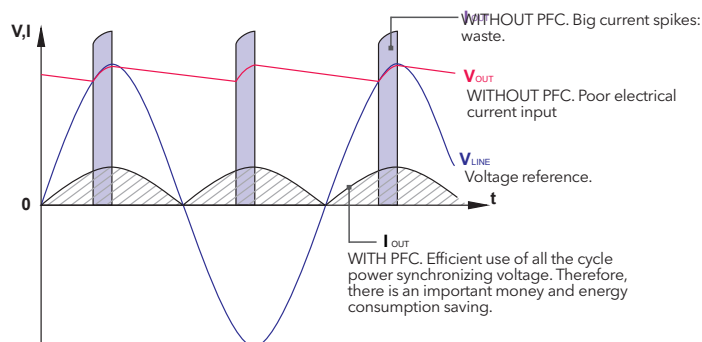
### WITHOUT PFC



Multi-voltage equipment with low consumption and advanced technology

FEATURES		PROGRESS 1700 PFC	PROGRESS 2100 PFC
110V Output current	A	170	210
230V Output current	A	130	160
Voltage	V	85 - 265	85 - 265
Max. Input Voltage	V	180 - 265	180 - 265
Generator	KVA	1 - 5	2 - 6
Duty Cycl	%	100	100
Max. electrode	mm	5	6
Weight	Kg	6.4	8.4
Carry case (K)		✓	✓
DINSE Connector	ø	1/2 (35/50)	1/2 (35/50)

- Able to work with surges and voltage drops.
- Connectable to long extension cords: 250m - 4mm<sup>2</sup> section / 500m 6mm<sup>2</sup> section
- Ideal for generator use.
- Silent and clean fan. According to each work level, less dirt entering and a higher electricity saving.
- **VRD for special compulsory security jobs.**
- Includes Lift Arc TIG with precise inert tungsten gas regulation.
- Electronic equipment for high-quality MMA coated electrode welding: **basic, cellulosic, great performance, INOX and rutile.**



INCLUDES		PROGRESS 1700 PFC	PROGRESS 2100 PFC
Power Cable	mm	3 m x 2.5 mm <sup>2</sup>	3 m x 3.0 mm <sup>2</sup>
Ground cable + clamp	mm	2 m x 25 mm <sup>2</sup>	2 m x 25 mm <sup>2</sup>
Electrode cable + clamp	mm	2 m x 25 mm <sup>2</sup>	2 m x 25 mm <sup>2</sup>
Hammer - Brush		✓	✓

- Heavy duty service
- Automatic change of 230/400V input voltage
- External Arc Force incremental setting
- Four wheels



### 400 V/230 V MONOPHASE

FEATURES		S 250 DV
Output current	A	250A (400V) / 200A (230V)
Voltage	V	1 ph 400 / 230
Generator	KVA	8
Duty Cycle	%	60
Max. electrode	mm	6
Weight	Kg	18
DINSE Connector	ø	1/2

- Electronic equipment for all kind of coated electrode, including cellulosic and aluminium.
- **Versatile:** suitable to work with a single-phase at 400V and 230V.
- Designed for special TIG welding by using tungsten inert atmosphere.
- Professional arc striking through neat LIFT ARC procedure.
- Suitable for all kind of production and heavy-duty service work where a maximum quality welding is required.
- Incomparable performance at its price range: 250A at 60% duty cycle and no-load speed = 72Vdc.
- Easy welding even for inexperienced users. Includes STAYER WELDING which consists of: Hot Start (quick arc-starting), Arc Force (to keep the arc continuum), and Anti-Stick (to avoid stuck electrodes). Therefore, there will be an optimization of the initial arc striking in order to boost its stability while welding, plus, will avoid stuck electrode cause by a wrong usage.
- Perfectly prepared equipment for a safe usage with stabilized generators. Bears +17% voltage surges.
- Solid construction outweighing the European specifications: 2011/65/EU, 2014/35/EU, 2014/30/EU & IEC 60974.
- High-quality components: includes hyper fast 600V IGBT **commutators and a high-range logic control systems.**
- **Toroidal transformer with physical inductance.** Massive 8x560 µF rectifier and top brands components (Philips, Motorola, Ixys).

INCLUDES		S 250 DV
Power Cable	mm	2 m x 4 mm <sup>2</sup>
Ground cable + clamp	mm	2 m x 25 mm <sup>2</sup>
electrode cable + clamp	mm	2 m x 25 mm <sup>2</sup>



## INDUSTRIAL

- Heavy duty service
- Professional external settings for Hot Start and Arc Force
- High secondary power enables high productivity including arc gouging
- Four wheels

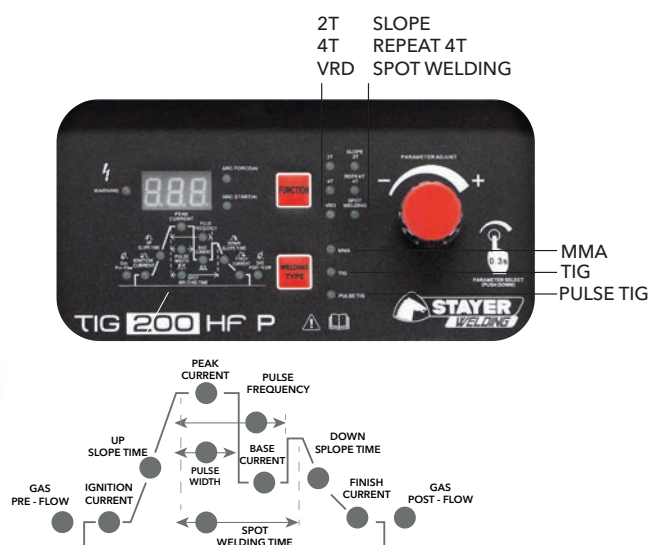


FEATURES		S 400 T
Output current	A	400
Voltage	V	3 ph 400
Generator	KVA	12
Duty Cycle	%	60
Max. electrode	mm	8
Weight	Kg	20
DINSE Connector	ø	1/2

## ADVANTAGES

- Robust designed equipment for coated electrode welding on massively requested environments.
- **Highly productive:** specially adjusted for an easy welding. Includes STAYER WELDING smart control, which consists of: Hot Start (quick arc-starting), Arc Force (to keep the arc continuum) and Anti-Stick (to avoid stuck electrodes).
- **High-quality:** double 100% metal robust structure for a high-duty service, including wheels (**in S250D/S400T models**), strips and anchors on steel profiles.
- **Over dimensioned industrial and military pieces and components:** parallelized bridges and relays, power capacitor and high-range IGBTs commutator, primary admission stages with massive filtering, high-voltage transformers with secondary winding core terminus, high voltage switches and 100% metal cast-iron structure.
- **Versatile:** for an electricity generator usage. Bears up to a 17% voltage rises and downs.

INCLUDES		S 400 T
Power Cable	mm	2 m x 4 mm <sup>2</sup>
Ground cable + clamp	mm	5 m x 35 mm <sup>2</sup>
electrode cable + clamp	mm	3 m x 35 mm <sup>2</sup>

**Entry level TIG and Pro multiprocess DC TIG**
**TIG HF**


FEATURES		POTENZA TIG 170 HF K	TIG 200 HF P
Output current	A	170	200
Voltage	V	230	230
Generator	KVA	5	6
Duty Cycle	%	60	60
Max. electrode	mm	4	6
Max. electrode tungsten	mm	3.25	3.25
Weight	Kg	5	14
Carry case (K)		✓	X
DINSE Connector	Ø	1/2	1/2

-Robust TIG welding equipment for heavy-duty work and maximum quality welding of all type of carbon steel, stainless steel, titanium and alloys. MMA coated electrodes welding mode included in each model.

-**High-quality:** double reinforced metal structure for a continuous and severe usage. Reinforced thickness metal covering.

-Over dimensioned components calculation. Parallelized bridges and relays, high quality power capacitors and IGBTs commutators, high-performance power transformers with secondary core terminus, military and industrial components, high-voltage switches and fans on a high-efficiency structure.

- **POTENZA TIG 170 HF Highly productive: high-frequency arc striking** and professional controls to achieve any type of materials perfect welding with a **power control configuration setting, neat and HF-HV contactless prime, argon post flow** and an optional 2T/4T (TIG 200 HF P) process for a fast productivity even for a non-expert TIG welder.

- **TIG 200 HFP: multiprocess (TIG, MMA, Pulsed DC TIG, Spot)** with 2T/4T, VRD and slope for any kind of welding except for aluminum.

-The MMA electrode mode includes: Hot Start (quick arc-starting), Arc Force (to keep the arc continuum) and Anti-Stick (to avoid stuck electrodes), as welding facilities in order to achieve an easy cold electrode prime. It also keeps the arc continuity and protects the user and the equipment from stuck electrodes.

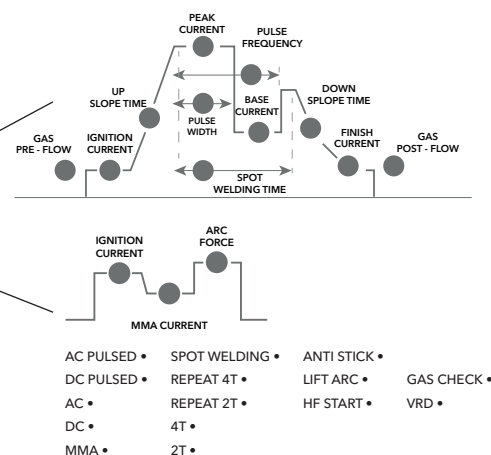
-**All-rounder:** ready for electricity generators usage bearing a 17% of voltage rises and downs.

INCLUDES		POTENZA TIG 170 HF K	TIG 200 HF P
Power Cable	mm	2 m x 2.5 mm <sup>2</sup>	3 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	2 m x 2.5 mm <sup>2</sup>	X
Electrode cable + clamp	mm	3 m x 2.5 mm <sup>2</sup>	X
TIG HF Torch	mm	4 m	3 m x 16 mm <sup>2</sup>
TIG Torch accesories		✓	✓
Gas Hose		✓	✓



# ALUMINUM WELDING TIG ACDC

**Professional & Industrial AC/DC multiprocessing**



FEATURES		TIG AC / DC 190 HF PS	TIG AC / DC 200 HF	TIG AC / DC 315 HF
Output current	A	200	200	315
Voltage	V	230	230	3 x 400
Generator	KVA	6	6	8
Duty Cycle	%	60	60	60
Max. electrode	mm	5	6	6
Max. electrode tungsten		3.25	3.25	4
Weight	Kg	21	27	71
DINSE Connector	ø	1/2	1/2	1/2

-Severe-service Inverter welding equipment for **TIG 200-315A at 40%** duty cycle, designed for maximum quality industrial TIG. Focused on INOX, aluminium, alloys and all kind of steel works.

-**Highly productive:** all the control and configuration potential are possible due an easy and intuitive microprocessor-controlled menu. Includes professional prime **HF-HV functions (high-frequency/high-voltage) 2T/4T, optional mode control in DC, modes control in AC, pulsed mode, ramps and gas control, gas flow and post-flow control and pulsed welding mode, with and without repetition in the TIG AC/DC 190 HF PS** model. Includes an easy mode to obtain the highest optimal configuration even when if the welder is not yet accustomed to set it up.

-**Water-cooled TIG torch (mod. 315)** for a 60% duty cycle even in extremely-hot procedures of 315A aluminium AC welding.

Extra-sized refrigerated unit for a non-stop productivity.

-Includes a special connector (**mo.315**) to set an **amperage control pedal for TIG professional welding**. Optional.

-**Able for coated electrode welding by setting it up from the menu.**

-Includes double reactor for an exact alternating aluminium welding current production.

-**High-quality:** heavy plate covering double 100% metal structure. Non-stop industrial productivity. Industrial and military range components and pieces including EMI filter, main transformer with a medium socket for a higher performance and unique 800V/300A, C150/MURP200 IGBTs, secondary diodes and industrial rectifiers.

- Main difference between 190 and 200 is that 190 is a professional type whereas the 200 is an industrial type.

-**Versatile:** ready for electricity generator usage. Bears a 17% voltage rises and downs.

INCLUDES		TIG AC / DC 190 HF PS	TIG AC / DC 200 HF	TIG AC / DC 315 HF
Power Cable	mm	3 m x 2.5 mm <sup>2</sup>	3 m x 2.5 mm <sup>2</sup>	3 m x 4 mm <sup>2</sup>
Ground cable + clamp	mm	1.5 m x 25 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>	3 m x 35 mm <sup>2</sup>
Electrode cable + clamp	mm	2 m x 25 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>	3 m x 35 mm <sup>2</sup>
Ergonomic torch	mm	3 m x 16 mm <sup>2</sup>	3 m x 16 mm <sup>2</sup>	5 m x 16 mm <sup>2</sup>
Gas Hose		3 m	3 m	<b>X</b>
TIG Torch accesories		✓	✓	✓

## CLASSIC MIG-MAG

- Heavy duty service
- Automatic change of 230/400V input voltage
- External Arc Force incremental setting
- Four wheels



FEATURES		MIG 160 MULTI	MIG 170 MULTI	MIG 200 MULTI
Torch		MIG 13 AK	MIG 13 AK	BINZEL 15 AK
Output current	A	160	170	200
Voltage	V	230	230	230
Generator	KVA	6	6	6
Wire	mm	0.8	0.6 - 0.8	0.8 - 1.0
Wire coils	Kg	0.5 - 1	0.5 - 5	5 - 15
Duty Cycle	%	60	60	60
Max. electrode	mm	4 - 5	5	5
Weight	Kg	8	17	22
DINSE Connector	Ø	3/8	3/8	1/2

- All models are full inverter (no TRF) with real detachable EUROTORCH connection
- STAYER MIG 160/200 A Inverter equipment. Designed for MIG, TIG and the highest quality MMA. Suitable for 0.8-1.6mm wires and up to 5mm coated electrodes. Easy usage and simple setting.
- Efficient and simple classic wire adjusted welding, made of just 2 setting buttons. One for control including **speed** mode and the second one for the **voltage**. One **commuter** enables the modes for the wire work (MIG), electrode (**MMA**) and **TIG**.
- Easy and simple **polarity inversion** for the hollow **wire welding** (no gas).
- Full equipped. Includes: torches, pulley, earth clamp cable and electrode.
- Portable and robust: compact and lightweight by fully IGBT Inverter power circuitry. Over dimensioned components.
- Industrial/Domestic consumption limiter (16A) available to safely work at home, hospitals, etc.
- IGBT technology based on a microprocessor control.
- MIG 160 is only for 1 Kg coils. MIG170 is for 1 and 5Kg coils. MIG200 is for 1and 15Kg coils

INCLUDES		MIG 160 MULTI	MIG 170 MULTI	MIG 200 MULTI
Power Cable	mm	2 m x 2.5 mm <sup>2</sup>	2 m x 2.5 mm <sup>2</sup>	3.5 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	2.5 m x 16 mm <sup>2</sup>	2 m x 16 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>
Electrode cable + clamp	mm	2.5 m x 16 mm <sup>2</sup>	2 m x 16 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>
Torch		13 AK	13 AK	BINZEL 15 AK
Wire feeder		Interno	Interno	Externo
Roller		<b>X</b>	<b>X</b>	<b>X</b>



## SYNERGIC MIG-MAG



**NEW**

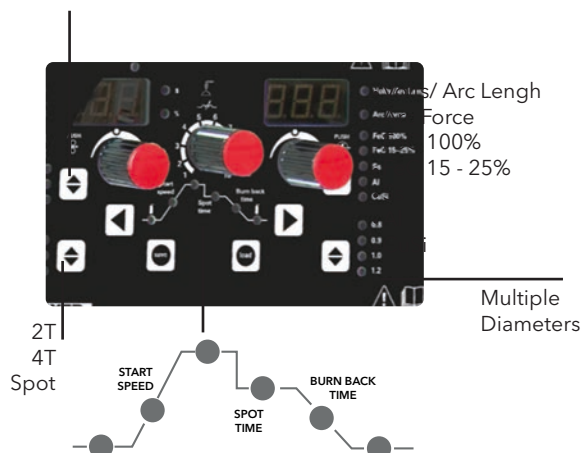
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**SYNERGIC**



Multiprocess

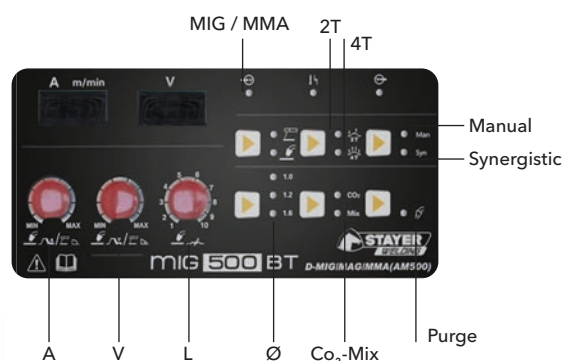


FEATURES		MIG 250 CM	MIG 250 CT
Output current	A	250	250
Voltage	V	230	400
Generator	KVA	8	8
Wire	mm	0.6 / 0.8 / 1.0	0.6 / 0.8 / 1.0
Duty Cycle	%	60	60
Max. electrode	mm	6	6
Weight	Kg	42	42
DINSE Connector	ø	1/2	1/2

- 3 phase 400V (CT) and 1 phase 230V (CM) version.
- Synergic easy work for MIG-MAG, MMA and Spot.
- Great management facility, even for non-expert welders. Manual control operated by computer that avoids complex menus.
- Easy flux core wire polarity inversion.
- Two high-luminosity displays for a simultaneous voltage and current vision with real time / real value display.
- Solid construction outweighing the European specifications: 2011/65/EU, 2014/35/EU, 2014/30/EU and IEC 60974.
- Suitable for 3x400 generators. Bears up to +/- 10% voltage deviation.
- Professional 60W motor wire feeder, stable and safe wire mechanism and suitable for 15Kg large coils. Includes slotted pulleys for 0.6mm, 0.8mm and 1mm.

DOTACIÓN		MIG 250 CM	MIG 250 CT
Power Cable	mm	2 x 2.5 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	3 x 25 mm <sup>2</sup>	3 x 25 mm <sup>2</sup>
Electrode cable + clamp	mm	3 x 25 mm <sup>2</sup>	3 x 25 mm <sup>2</sup>
Torch	mm	BINZEL 25 AK	BINZEL 25 AK
Gas hose		3	3
Roller		2 x 0.8 - 1.0	2 x 0.8 - 1.0

**SYNERGIC MIG-MAG**

**SYNERGIC**


FEATURES		MIG 350 BT	MIG 500 BT
Output current	A	350	550
Voltage	V	3 x 400	3 x 400
Generator	KVA	25	25
Wire	mm	0.8 - 1.0/ 1.0- 1.2	0.8 - 1.0/ 1.2- 1.6
Wire coils	Kg	5 -15	5 - 15
Duty Cycle	%	60	60
Max. electrode	mm	8	8
Weight	Kg	45	50
Size	cm	114 x 30 x 90	160 x 33 x 100
Borna DINSE	Ø	1/2	1/2

- Professional continuous wire, coated electrode and **MIG Inverter equipment for welding with detachable wire feeder.**
- Easy use. Simplified classic/manual synergic use.
- **Adjustable Arc Force** for a cellulosic welding and an improved TIG response.
- Easy **polarity inversion** for flux core wire use.
- Voltage and current real-time indicators.
- Superior inverter technology. No heavy transformer, lightweight and powerful at 60% duty cycle.
- Solid construction outweighing the European specifications: 2011/65/EU, 2014/35/EU, 2014/30/EU, IEC 60974.
- Suitable for 3x400 generators. Bears up to +/-10% voltage deviations.
- Professional 85W motor wire feeder with four contact propeler. Safe and stable wire reduction, suitable for all kind of coils and includes two push pull rollers.
- **Smart voltage, current and speed control from the self-roller unit.**

INCLUDES		MIG 350 BT	MIG 500 BT
Power Cable	mm	3 m x 4 mm <sup>2</sup>	3 m x 6 mm <sup>2</sup>
Ground cable + clamp	mm	3 m x 40 mm <sup>2</sup>	3 m x 40 mm <sup>2</sup>
Electrode cable + clamp	mm	3 m x 40 mm <sup>2</sup>	3 m x 40 mm <sup>2</sup>
Torch		BINZEL 36AK / 4m	BINZEL 501D / 4m
Flowmeter		1	1
Rollers		2 x 0.8 - 1.0 / 2 x 1.0 - 1.2	2 x 0.8 - 1.0/ 2 x 1.0 - 1.2/ 2 x 1.2 - 1.6



## DOUBLE PULSE SYNERGIC MIG-MAG

OPTIMAL PERFORMANCE FOR ALUMINUM WELDING



**SYNERGIC**

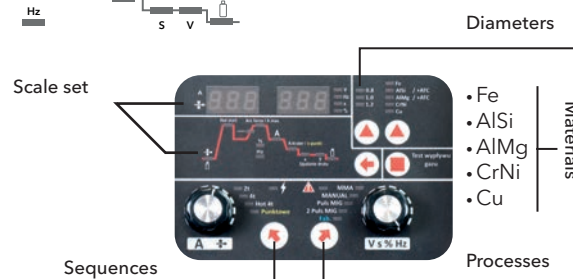
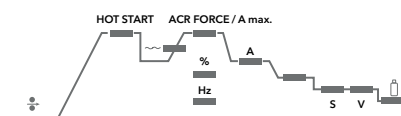
CARACTERÍSTICAS		MIG 280 DOUBLE PULSED
Torch		Al 2m / Steel 4m / Inotec 24
Output current	A	280
Voltage	V	3 x 400
Generator	KVA	15
Wire	mm	0.8 / 1.0 - 1.2 / 1.6
Wire coils	Kg	1 - 15
Duty Cycle	%	60
Max. electrode	mm	6
Weight	Kg	34
DINSE Connector	Ø	1/2



**4 ROLLERS / 4 CONTACTS  
WIRE FEEDER MECHANISM**



**x1 Aluminio torch- 2m  
x1 Steel torch - 4m**



- Triphasic 3 x 400V profesional tool for MIG, MMA and TIG welding.
- **Synergic** system suitable for **welding all kinds of stainless and carbon steels, as well as magnesium/silicon and copper aluminums.**
- Includes specific **configurations for MMA coated electrodes, simple pulse, double +ATC, Fab and manual mode.** Best no splatter spray mode in all positions thanks to pulse.
- Includes sequence modes **2T, 4T, 4TH and Spot.**
- Includes optimized **parameters for 0.8 / 1.0 / 1.2 mm. threads.**
- **Hot Start** and **Arc Force** external regulation for professional **MMA welding.**
- Includes **2 torches 25mm<sup>2</sup>.** The **short one** is special for **aluminum welding** while the **long one** is used for **steel welding**
- **4 real rollers driving mechanism** including a **quadruple U shaped roller** specially suited for aluminum and a **V set for Steel.**
- Advanced modular electronics managed by 2 microprocessors for a long lifespan and easy technical service assistance
- Easy transport and storage: low weight compact tool (60x62x30). Includes tray for gas cylinders.
- Low energy consumption: 15 amps maximum per phase.
- Power generator ready

INCLUDES		MIG 280 DOUBLE PULSED
Aluminium torch INNOTEC 24	mm	2 m x 25 mm <sup>2</sup>
Steel torch INNOTEC 24	mm	4 m x 25 mm <sup>2</sup>
Support shelf for the cylinder	mm	29 x 27.5 cm
Security chain for the cylinder	cm	90
Transport weels	cm	7 / 20 cm
Rollers	mm	4 x 1/1.2 mm "U" - 2x 0.8 / 1.0 mm "V" - 2 x 1.2 / 1.6 mm "V"
Flat rollers	mm	2



FEATURES		PLASMA 40 COM GE	PLASMA MULTI 40 GE	PLASMA 100 T GE
Output current	A	40	160 - 40	100
Voltage	V	230	230 +/- 17%	3 x 400
Generator	KVA	4.4	6	11
Duty Cycle	%	60	60	60
Max. electrode	mm	-	4 - 5	-
Cutting capacity	mm	12	12	32
Weight	Kg	19.5	7	30
DINSE Connector	Ø	3/8	1/2	3/8
Compressor		Internal	External	External

- Professional **Plasma metal cutting** system by **Inverter technology**.
- Ready for neat and fast cuts of all kind of metals and alloys execution.
- Solid construction under European specifications: 2014/35/EU, 2014/30/EU, 2011/65/EU and IEC 60974.
- Fabricated for production works in severe-service industrial production for metallic constructions, yards, scrapping, boiler making and maintenance.
- 40A and 100A at 60% duty cycle with 100 to 130 Vdc no-load voltage.
- Easy cutting operations execution even for inexperienced users due to the ST WELDING smart logic.
- The **PLASMA 40 COM GE** mobility equipment includes an intern **1 HP internal compressor** for autonomy, with no need for the equipment to be connected to the compressed air installation.
- Metallic carpentry and extra robust housing with inner reinforcement for shock bearing. Steel blades for a higher resistance and longer service life.
- Advanced design and high-quality electronical components, including commutators and high-range HF rectifiers, toroidal power transformers and top brand components. Modular design for easy service.
- Extended resistance to the power input. Bears up to 270Vac in monophasic equipment and up to 470Vac in triphasic ones under 50m extension cords conditions.
- Ready for all kind of capacitor stabilized generators, AVR or sine-wave inverter
- Every model includes cutting torches, air hose and earth clamp cables.

#### PLASMA MULTI 40 Three functions

- **MMA covered electrode welding with external Arc Force and 160A at 60% duty cycle cellulosic welding.**
- **Quality TIG welding with arc start by contactless high frequency.**
- **All kind of metals cutting by HF 40A contactless start-up Plasma.**
- Very complete accessories including plasma torch, TIG torch and MMA complete set ready to work.
- Suitable for all kind of light and medium and heavy maintenance and construction works where a maximum welding, cut and usage simplicity is required.

INCLUDES		PLASMA 40 COM GE	PLASMA MULTI 40 GE	PLASMA 100 T GE
Power Cable	mm	3 m x 2.5 mm <sup>2</sup>	3 m x 2.5 mm <sup>2</sup>	3 m x 2.5 mm <sup>2</sup>
Ground cable + clamp	mm	3 m x 10 mm <sup>2</sup>	2 m x 16 mm <sup>2</sup>	3 m x 16 mm <sup>2</sup>
electrode cable + clamp	mm	<b>X</b>	2.4 m x 16 mm <sup>2</sup>	<b>X</b>
Plasma torch	m	IPT 40 6m	SG 55 4 m	LT 100 6 m
TIG torch		<b>X</b>	SR 17 HF	<b>X</b>
Air hose		✓	<b>X</b>	✓



## WELDING MASKS

### Fixed shade with grind function



Cod. 1.2636

FEATURES		GS - 0	MANUAL MASK
Filter size	mm	97 x 73	107 x 50.5
Vision area	mm	92 x 73	89 x 45
Light mode protection	DIN	11	10
Dark mode protection	DIN	11	10
UV / IR Protection	DIN	11	10
Time light > dark	s		
Time dark > light	s		
Sensitivity			
Usage temperature	°C	-5 - 55	-5 - 55
Weight	gr	400	275
Filter lifespan	Years	2	2
Minimum order	Units	5	5



**Great vision area  
97x73 mm**

### Auto darkening with delay/sensitivity/shade adjustment

FEATURES		AS - 1D
Filter size	mm	110 x 90
Vision area	mm	92 x 35
Light mode protection	DIN	4
Dark mode protection	DIN	9 / 13
UV / IR Protection	DIN	15
Time light > dark	s	1/20000
Time dark > light	s	0
Sensitivity		Min - Max.
Usage temperature	°C	-5 - 55
Weight	gr	440
Filter lifespan	Years	2



**Simple AAA batteries**



**WELDING**

**WELDING MASKS**

**Auto 9-13 DIN with grinding function**

FEATURES		AS-R
Filter size	mm	110 x 90 x 8
Vision area	mm	92 x 35
Light mode protection	DIN	4
Dark mode protection	DIN	9 / 13
Grinding protection	DIN	2
UV / IR Protection	DIN	15
Time light > dark	s	1/20000
Time dark > light	s	0.4
Sensitivity		Medium
Usage temperature	°C	-5 - 55
Weight	gr	500
Filter lifespan	Years	2

- Automatic external regulator
- Solar powered filter
- Ready for grinding jobs
- High resistance polymer structure
- Adjustable EN169 protection grade from 9 DIN to 13 DIN



**AS-R**  
cod.1.1792



FEATURES		AS-RT / CARNIVAL
Filter size	mm	110 x 90 x 8
Vision area	mm	92 x 35
Light mode protection	DIN	4
Dark mode protection	DIN	9 / 13
Grinding protection	DIN	2
UV / IR Protection	DIN	15
Time light > dark	s	1/20000
Time dark > light	s	0.2 / 0.8
Sensitivity		Min - Max.
Usage temperature	°C	-5 - 55
Weight	gr	500
Filter lifespan	Years	2



**AS-RT**  
cod.1.2093



**CARNIVAL 1**  
AUTO  
cod.1.2025

**CARNIVAL 3**  
FIRE  
cod.1.2024

## WELDING MASKS

Auto 9-13 DIN with sensibility adjustment & grinding function

FEATURES		AS - X
Filter	mm	110 x 90 x 9
Vision area	mm	91 x 41
Light mode protection	DIN	4
Dark mode protection	DIN	9 / 13
Grinding protection	DIN	2
UV / IR Protection	DIN	16
Time light > dark	s	1/25000
Time dark > light	s	0.2/0.8
Sensitivity		Manual
Sensors quality		2
Power Supply		Solar cells
Usage temperature	°C	-5 - 55
Weight	gr	430
Filter lifespan	Yars	2

### AS - X

- Automatic external and internal regulation
- Solar powered filter
- Ready for grinding jobs
- Adjustable darkening, 2 ranges precision
- Sensibility and delay control
- Large frontal protector



- Continuous shadow adjustment
- Sensibility adjustment.
- Delay adjustment.
- Security self test



FEATURES		AS - XL
Filter	mm	114 x 133
Vision area	mm	100 x 60
Light mode protection	DIN	4
Dark mode protection	DIN	5 -9/9 - 13
UV / IR Protection	DIN	16
Time light > dark	s	1/30000
Time dark > light	s	0.2/0.8
Sensitivity		Manual
Sensors quality		4
Power Supply	gr	Solar cells
Usage temperature	°C	-5 - 55
Weight	gr	440
Filter lifespan		2



1. Protection grade selector:  
9-13 / 5-9 / GRINDING (Protects grinding with no darkening)
- 1b. Shadow selector (for a higher sensibility grade).
2. Delay adjustment (MIN-MAX).
3. Low-battery indicator.
4. RESET button.
5. Sensibility adjustment (LO-HI).

- Great surface vision
- Recommended for TIG welding
- Solar powered filter
- Ready for grinding jobs
- Large frontal protector
- Area filter of 100 x 60mm adjustable
- 4 arc sensors.
- Rechargeable batteries



## WELDING ACCESSORIES

### Cables & Clamps sets



INCLUDES	8110.1160	8110.1159	8110.3308	8110.3309	8142.1214	8110.3309	8110.3309	8110.3309
Ground cable + clamp	1.5 m x 10 mm <sup>2</sup>	2 m x 25 mm <sup>2</sup>	3 m x 16 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>	1.5 m x 14 mm <sup>2</sup>		1.5 m x 16 mm <sup>2</sup>	
electrode cable + clamp	2 m x 10 mm <sup>2</sup>	3 m x 25 mm <sup>2</sup>	4 m x 16 mm <sup>2</sup>	4 m x 25 mm <sup>2</sup>		1.5 m x 14 mm <sup>2</sup>		1.5 m x 16 mm <sup>2</sup>
Insertion	3/8" (10-25)	1/2" (25-50)	3/8" (10-25)	1/2" (25-50)	3/8" (10-25)	3/8" (10-25)	3/8" (10-25)	3/8" (10-25)

### Clamps & Connectors



Electrode clamp	300A - Cod.: 8110.637	300A - Cod.: 38.259
Ground clamp	300A - Cod.: 8110.638	400A - Cod.: 8110.1228
Male air DINSE connector	3/8" - Cod.: 38.232	1/2" - Cod.: 38.233

### Squares & Hammers



8110.777	8110.1225	8110.1226
Magnetic square up to 25 Kg	Chisel/hammer welder - 500gr.	Hammer - Brush

38.875
Argon & CO2 Flowmeter

### MIG TORCHES - EUROTORCH connection



8110.1158	38.483	38.484	38.485	38.485	38.642	38.23	8346.55	8346.56
MIG 13 AK 3m	MIG 15 AK 4m	MIG 25 AK 4m	MIG 36 AK 4m	MIG 501 D 4m	AI - FB 15 2m	AI - GN 25 4m	MIG 24 4m	AI - MIG 24 2m
MIG 170 MULTI	MIG 200 MULTI	MIG 250 C M/T	MIG 350 BT	MIG 500 BT	MIG 200 MULTI	MIG 280 DP MIG 250 C	MIG 280 DP	MIG 280 DP

### TIG TORCHES

						
<b>38.85</b>	<b>38.87</b>	<b>4120.172</b>	<b>38.713</b>	<b>4019.55</b>	<b>4019.125</b>	<b>38.716</b>
DINSE 3/8" Gas 3/8" - 3m	DINSE 1/2" M16x1.5 - 4m	DINSE 1/2" M16x1.5 - 4m	DINSE 1/2" M16x1.5 - 4m	DINSE 1/2" Gas M10 x 1 - 3m	Agua DINSE 1/2" Gas M10 x 1 - 3m	DINSE 1/2" Gas M10 x 1 - 3m
UNIVERSAL	UNIVERSAL	PLASMA MULTI 40	POTENZA TIG 170 HF	TIG AC/DC 200 HF P	TIG AC/DC 315 HF P	TIG DC 200 HF

### PLASMA TORCHES - M16 x 1.5 connection



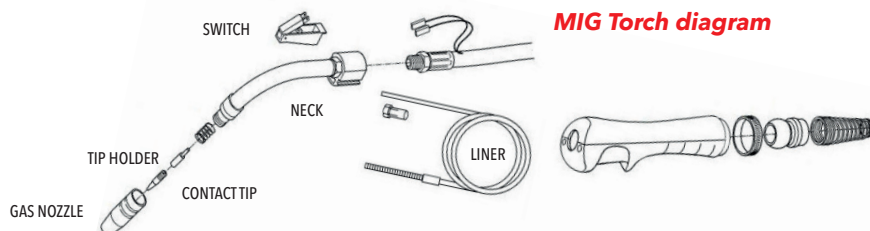
<b>4120.170</b>	<b>4120.171</b>	<b>4120.169</b>
PLASMA SG 55 4m	PLASMA IPT 40 4m	PLASMA LT 100 6m
PLASMA 40 MULTI	PLASMA 40 COM	PLASMA 100 T



## TORCHES & WELDING MASKS COMPONENTS

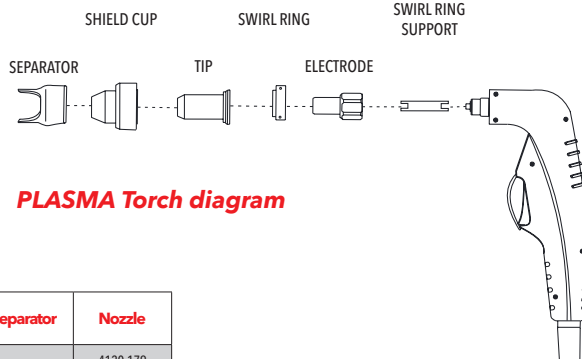
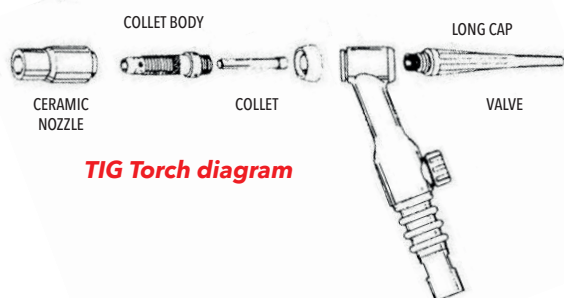
### MIG Torches consumables

Cod.	Torch	Model	Gas nozzle	Steel contact tip			Aluminum contact tip			Tip holder	Neck	Switch	Steel liner			Aluminum liner		
				0.8	1.0	1.2	0.8	1.0	1.2				0.8	1.0	1.2	0.8	1.0	1.2
8110.1158	13 AK	MIG 170	8110.1165	8110.1162	8110.1163	8110.1164					8110.1166	8110.1167	8110.1168					
38.483	15 AK	MIG 200	4019.56	38.50	38.51		38.52	38.53		38.721	38.742	38.613	38.744			38.743		
38.484	25 AK	MIG 250 C	38.81	38.54	38.55	38.56	38.57	38.745	38.58	38.722	38.746	38.747						
38.485	36 AK	MIG 350 BT	38.69	38.59	38.60	38.61	38.62	38.63	38.64	38.480	38.752		38.750	38.751		38.749	38.748	
38.486	501 D	MIG 500 BT	38.568	38.542	38.543	38.544	38.545	38.66	38.546	38.736	38.737		38.553	38.556	38.559	38.554	38.557	38.560



### TIG Torches consumables

			Collet						Collet Body						Ceramic Nozzle					
Torch	Long Back Cap	Valve cap	1.0	1.6	2.0	2.4	3.2	4.0	1.0	1.6	2.0	2.4	3.2	4.0	GR-4	GR-5	GR-6	GR-7	GR-8	
UNIVERSAL	2.310	2.311	2.330	2.305	2.331	2.306	2.332	2.333	2.334	2.308	2.335	2.307	2.336	2.337	2.338	2.339	38.443	2.340	2.341	



### PLASMA Torches consumables

Cod.	Model	Electrode	Swirl Ring	Nozzle tip	Nozzle shield cup	Swirl ring support	Separator	Nozzle
4120.170	SG 55	4120.180			4120.178			4120.179
4120.171	IPT 40	4120.174	4120.175	4120.176	4120.177			
4120.173	LT 100	4120.148	4120.145	4120.146	4120.147	4120.144	38.21	

### Welding masks consumables

Cod.	Model	Internal Protector	External Protector	Filter	Harness	Harness set	Sweat band
1.1806	GS - 0	8110.1220		8110.1219	8110.1221	8110.1222	8110.1224
1.1792	AS - R	4020.57	4020.8	4020.53	4020.55	4020.55	4020.32
1.1591	AS - 0	4020.39	4020.37	4020.41	4020.46	4020.50	
1.1606	AS - 1C	4020.38	4020.36	4020.40			
1.1059	AS - X	4020.13	4020.8	4020.18	4020.19	4020.24	
1.1386	AS - XL	4020.30	4020.29	4020.27	4020.42	4020.43	





## ELECTRODES & COILS

### Rutile electrodes

Cod.	AWS	Ø mm	Length (mm)	Kg	Units
38.93	E 6013	2.5	350	0.5	20 / BUSTER
38.94		3.2		0.7	
38.99		2.5		2.7	100
38.852		2.5		5	270
38.853		3.2			170
38.854		4			115



### Inox electrodes

Cod.	AWS	Ø mm	Length (mm)	Kg	Units
38.862	E 316 L-16	2	300	3	270
38.863		2.5	250	3	200
38.864		3.2	350	4.5	128

### Inox electrodes

### Hardfacing electrodes



### Hardfacing electrodes

Cod.	AWS	Ø mm	Length (mm)	Kg	Units
38.860	E 6 UM 60 P	3.2	450	5	133
38.861		4		6	82

### Steel wire Coils

Cod.	AWS	Ø mm	Kg
2.767	ER 70S-6	0.8	1
2.765			5
2.460			15
2.772		1.0	1
2.766			5
2.293			15
2.294		1.2	15

### Aluminum Coils

Cod.	AWS	Ø mm	Kg
2.770	ER 5356	0.8	1
2.773			1
2.771		1.0	7



### Hollow wire Coils (Flux Core)

Cod.	AWS	Ø mm	Kg
2.769	E 71 CGS	0.9	1
2.768			5

### Tungsten Electrodes for TIG

Cod.	AWS	Ø mm	Length (mm)	Doping	Units	Band
2.304	EW Tu - 2	1.6	150	Th 2%	1	RED
2.303		2.4				
38.882	EWP	1.6				GREEN
38.883		2.4				
38.884	EW La - 1	1.6		La 1%		GOLD
38.885		2.4				



### Filler Rod for TIG

Cod.	AWS	Ø mm	Length (mm)	Type	Units
2.529	ER 70S - 6	1.2	1	Carbon steel	5
2.757		2.0			
2.530		2.4			
2.758		3.2			
2.531	ER 308 L	1.6		INOX 308	
2.759	ER 316 L	2.0			
2.532	ER 5087	2.4	Mg 5 Aluminum		
2.760					



# CATA LOGUE 2021

## WELDING

YouTube



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