

VIRTUO 221M

Ref. 087576 (without accessories)

Ref. 092990 (with accessories)

The VIRTUO 221M offers the performance of a premium MIG power source, but in a portable, single-phase, multi-process format. With its ultra-lightweight and compact design, it allows the user to work as close as possible to the welding area, even in the most confined spaces. When using the MIG/MAG pulse function, it precisely controls the welding energy to minimise deformation of the workpiece, and the integrated synergies increase welding speeds and ensure consistent, high-quality welds. Running on the LEGEND M digital platform, the 3.5-inch colour interface provides intuitive access to advanced settings, and is continuously updated with the latest technological developments from GYS.

PREMIUM MIG/MAG PERFORMANCE

- **Digital arc control:** Instant ignition, excellent arc stability and a crater-free finish.
- **Pulse MIG arc :** Precise control of welding energy, which minimises deformation, reduces spatter, and increases welding speeds by more than 30 per cent.
- **3 synergic welding modes suitable for every application:**
 - Standard: quick and common applications.
 - Pulse: optimal quality in all welding positions.
 - Root: simplifies root passes, without support, and in all welding positions.
 - + mode Manual: Advanced settings for experienced welders and DMOS.
- **Modular assembly mode** (compatible with all synergic modes) : mOptimal energy control, ideal for welding in various positions and for applications requiring an exceptional aesthetic appearance.
- **Twin-roller motorised wire feeder with digital encoder (25 m/min).**

ONE MACHINE, ALL APPLICATIONS

- **MIG/MAG and Pulse:**
 - steel wire: Ø 0.8 to 1.0 mm in Pulse and Ø 0.8 to 1.2 mm in Standard mode.
 - wire stainless steel : Ø 0.8 to 1.2 mm
 - aluminium wire: Ø 0.8 to 1.2 mm
 - flux-cored wire (reverse polarity): Ø 0.9 to 1.2 mm
 - CuSi: Ø 0.8 to 1.2 mm
- **MMA DC and Pulse:** basic, rutile and cellulosic electrodes (optional adaptor 092426).
- **TIG DC Lift and Pulse.**

READY FOR ANYTHING

- **The optimized design combines lightness with robustness, weighing only 18 kg.**
- Built-in handle for easy and comfortable transportation.
- Screen protection for the HMI that still allows direct access to the control knob.
- Compatible with 200 mm diameter wire spools up to 5 kg for extended running time.
- Works on standard power supply networks (208 / 220 / 230 / 240 V 1~) as well as on power generators rated at 18 kVA and above.
- Compatible with extension leads up to 100 m to maximise the operating range on site.
- IP23S protection rating for use in tough working conditions.
- Integrated gas management and gas-deficiency detection to ensure high-quality welds.
- Quick polarity reversal behind the side cover.
- LED lighting under the side cover, improving visibility of the wire feed mechanism and wire spool.

THE INTELLIGENCE LEGEND M: THE HEART OF WELDING

The LEGEND M digital platform is continuously being updated with new features to address the evolving needs of users.

- **+50 synergies** across various materials: Acier, AlMg, AlSi, CrNi, CuSi.
- **QuickLoad and Multijob:** instantaneous switching between JOBS (either before or during welding) by simply pressing the trigger to chain multiple welding sequences together.
- **Up to 200 programmable welding sequences (JOBS) for recurring applications.**
- Full update of the machine software and synergies via USB stick.
- **Portability** function, for backing up and transferring JOBS and machine settings.
- Traceability of welds in accordance with EN 3834 standard.
- **Free online tool** for customising the interface.

ACCESSORIES (options)



Aluminum

350 A - 3 m
063808MB36 torch box
041417

Type F rollers

Steel / Stainless steel	Ø 0.6 / 0.8 Ø 0.8 / 1.0	x4	061859
			061866
Aluminum	Ø 0.8 / 1.0 Ø 1.0 / 1.2		061897
			061903
Flux-cored wire	Ø 1.0 / 1.2		092488

MMA / EURO MIG adaptor
092426Sack Truck
10m³ XL
076341

Supplied with	063792 - 4 m	4 m - 35 mm²
092990	✓	✓
087576	without accessories	

Legend M 3.5-inch interface
intuitive, multilingual (16 languages) and customisable2 levels of user interface
Easy and Expert

					 Ømm							EN 60974-1 (40°C)									IP
50/60 Hz	A	A	A	A	Gas	Flux-cored wire		Ø mm	Electronic control	m/min		MIG / MAG		MMA		TIG		U ₀	cm	kg	
												IA (60 %)	100 %	IA (60 %)	100 %	IA (60 %)	100 %	V			
230 V 1~	16	10→220	20→220	10→220	0.6→1.2	0.9→1.2	200 mm 5 kg	1.6→5	 60 W	1→25	1.0 1.2	150 A	130 A	150 A	120 A	150 A	130 A	60	53.4 x 24.5 x 37.8	18	IP23S