

**helvi®**

**W**  
**WELD-TEC**  
SCHWEISS- UND SCHNEIDTECHNIK GMBH

# HELVI LINE CATALOGUE 02.2023



**BATTERY CHARGERS**



**MMA / TIG**



**TIG DC HF - TIG AC/DC HF**



**MIG/MAG**



**MULTIPROCESS**



**PLASMA CUTTING**

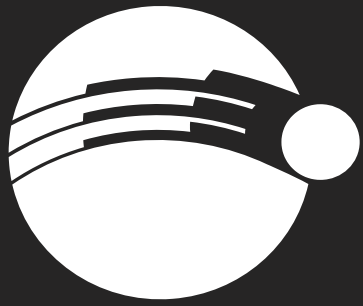


**SPOT WELDING**



**SAFETY**





# HELVI®



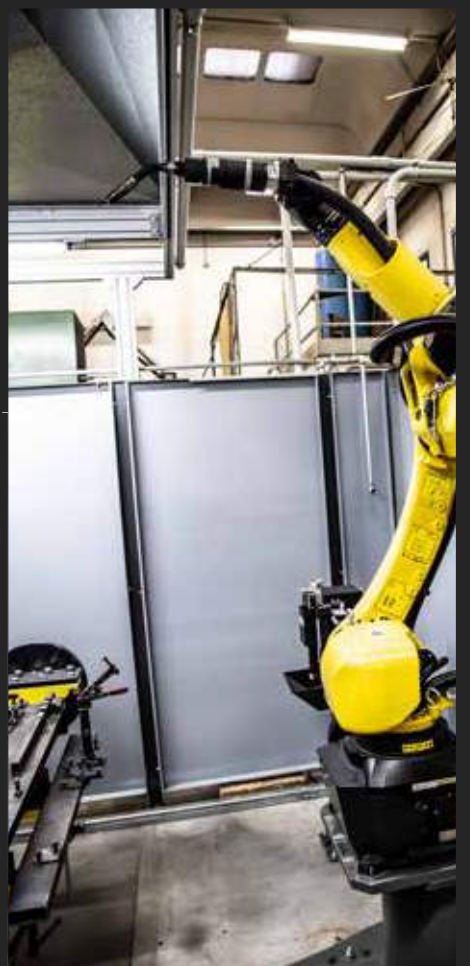
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In 1975 Bruno Segala founded HELVI Spa. Since then, our company has grown as well as our family has grown. Today his sons, Paolo and Carlo, guide HELVI with the same spirit of initiative and the same dedication that Bruno brought into play more than forty years ago. Since then we have never stopped giving importance to people: every handshake is a commitment that we seriously take and it is the signature of our being reliable as people and as a group. You can find the same reliability in each welding machine, plasma cutting machine and professional battery charger that we do manufacture. Every single component is selected and tested to be perfectly combined in a product designed to meet high quality standards. We finally feel committed to give you our best support on any technical issue. Everything can be fixed like in a big family, with the immediate support and kindness that distinguish us.



Headquarter of **16.000m<sup>2</sup>** - Staff **100+** people  
From engineering to production

**SHOW ROOM**  
**DEMO AREA**  
**TRAINING CENTER**

#### METAL FORMING SHOP

**1 million** pieces worked per year · **3.500** Part Number  
High flexibility · **4** robot-driven punching station  
**6** bending machines · Automatic welding station  
Industry 4.0 Laser cutting and automatic punching

#### VERTICAL WAREHOUSES

**2** automated vertical warehouses  
with **51** drawers (capacity **800kg**) each

#### TRANSFORMER ASSEMBLING

"In house" design and production.  
+ **100.000** transformers assembled every year

#### SILK SCREEN PRINTING

**50+** different RAL colours

#### PLASTIC PART

**200+** owned mould  
**1.200.000** parts printed every year

#### PCB ASSEMBLING

State of the art PCB assembling department

#### ASSEMBLING DEPT

**14** assembling line · **100.000** finished products · Flexible assembling lines  
Quality test on each single product

#### IN BRIEFLY

Full range · Flexibility · Fast decision flow  
Development of customized products · Industrial organization with artisan touch.



Original HELVI headquarters · 1978



Bruno & Paolo Segala · 1980



Autopromotec Bologna · 1995



	PART NUMBER	INPUT VOLTAGE	BATTERY VOLTAGE	CHARG. POSITIONS	FLOAT CHARGE	TIMER	AMMETER	CPS	LEAD BATTERY	LIQUID CALCIUM	LIQUID AGM	START / STOP	GEL SEALED	LiFePO <sub>4</sub>
<b>PROGRESS 14</b>	99000067	1ph 230V	6/12	2			▪		▪					
<b>PROGRESS 17</b>	99000068	1ph 230V	12/24	2			▪		▪					
<b>PROGRESS 20</b>	99000069	1ph 230V	12/24	2			▪		▪					
<b>ARTIK 22</b>	99000077	1ph 230V	12/24	4			▪		▪					
<b>ARTIK 33</b>	99000072	1ph 230V	12/24	4			▪		▪					
<b>PROGRESS 25</b>	99000031	1ph 230V	6/12/24	6			▪		▪					
<b>PROGRESS 35</b>	99000032	1ph 230V	6/12/24	12			▪		▪					
<b>PROGRESS 35B</b>	99000040	1ph 230V	6/12/24/36/48	12			▪		▪					
<b>AUTOMATIC 30</b>	99000066	1ph 230V	12/24	∞	▪		▪		▪	▪	▪	▪	▪	
<b>VOYAGER 4</b>	99000086	1ph 230V	6/12	9	▪	▪	▪		▪	▪	▪	▪	▪	▪
<b>VOYAGER 8</b>	99000087	1ph 230V	12/24	9	▪	▪	▪		▪	▪	▪	▪	▪	▪
<b>VOYAGER 16</b>	99000088	1ph 230V	12/24	9	▪	▪	▪		▪	▪	▪	▪	▪	▪
<b>VOYAGER 25</b>	99000089	1ph 230V	12/24	9	▪	▪	▪		▪	▪	▪	▪	▪	▪
<b>DISCOVERY MOTO</b>	99000076	1ph 230V	12	∞	▪				▪	▪	▪	▪	▪	
<b>DISCOVERY 60</b>	99000074	1ph 230V	6/12	∞	▪		▪		▪	▪	▪	▪	▪	▪
<b>DISCOVERY 120 PLUS</b>	99000083	1ph 230V	12/24	∞	▪		▪		▪	▪	▪	▪	▪	▪

# BATTERY CHARGERS AND STARTERS

	PART NUMBER	INPUT VOLTAGE	BATTERY VOLTAGE	CHARG. POSITIONS	FLOAT CHARGE	TIMER	AMMETER	CPS	LEAD BATTERY	LIQUID CALCIUM	LIQUID AGM	START / STOP	GEL SEALED	LifePO <sub>4</sub>
<b>DISCOVERY 250</b>	99000082	1ph 230V	12/24	∞	▪		▪		▪	▪	▪	▪	▪	▪
<b>EXPLORER 120</b>	99000084	1ph 230V	12	∞	▪	▪	▪		▪	▪	▪	▪	▪	▪
<b>EXPLORER 130</b>	99000085	1ph 230V	12	∞	▪	▪	▪		▪	▪	▪	▪	▪	▪
<b>SPEEDY 150</b>	99005051	1ph 230V	12	2 + boost			▪		▪					
<b>SPEEDY 250</b>	99005052	1ph 230V	12/24	2 + boost			▪		▪					
<b>SPEEDY 430</b>	99005031	1ph 230V	12/24	4 + boost			▪		▪					
<b>RAPID 280</b>	99005040	1ph 230V	12	2 + boost			▪		▪					
<b>RAPID 380</b>	99005041	1ph 230V	12/24	2 + boost			▪		▪					
<b>RAPID 480</b>	99005053	1ph 230V	12/24	6 + boost			▪		▪					
<b>SPRINT CAR 341</b>	99010046	1ph 230V	12/24	4 + boost			▪		▪					
<b>SPRINT CAR 441</b>	99010047	1ph 230V	12/24	4 + boost			▪		▪					
<b>SPRINT CAR 540</b>	99010041	1ph 230V	12/24	6 + boost		▪	▪		▪					
<b>SPRINT CAR 640</b>	99010030	1ph 230V	12/24	6 + boost		▪	▪		▪					
<b>AUTOSTAR 300</b>	99005043	1ph 230V	12	2 + boost			▪	▪	▪					
<b>AUTOSTAR 500</b>	99005044	1ph 230V	12/24	6 + boost			▪	▪	▪					
<b>AUTOSTAR 701</b>	99010037	1ph 230V	12/24	6 + boost		▪	▪	▪	▪					
<b>AUTOSTAR 1001</b>	99010038	3ph 230/400V	12/24	14 + boost		▪	▪	▪	▪					
<b>AUTOSTAR 1300</b>	99010042	3ph 230/400V	12/24	12 + boost		▪	▪	▪	▪					
<b>AUTOSTAR 2000</b>	99010043	3ph 230/400V	12/24	12 + boost		▪	▪	▪	▪					
<b>DIGICAR 540E</b>	99010049	1ph 230V	12/24	4 + boost	▪	▪	▪	▪	▪	▪	▪	▪	▪	
<b>DIGICAR 1100E</b>	99010051	1ph 230V	12/24	4 + boost + supply	▪	▪	▪	▪	▪	▪	▪	▪	▪	
<b>BOOSTY 25</b>	99005068	1ph 230V	12	boost										
<b>BOOSTY 31</b>	99005064	1ph 230V	12	boost										
<b>BOOSTY TRUCK 12/24</b>	99005065	1ph 230V	12/24	boost										
<b>POWER UP 8.0</b>	99005067	1ph 230V	12	boost										
<b>SUPER POWER 13.0</b>	99005069	1ph 230V	12	boost										
<b>BATTERY TESTER T1</b>	99090040	1ph 230V	-	tester										
<b>BATTERY TESTER T5</b>	99090038	1ph 230V	-	tester										
<b>BATTERY TESTER T10</b>	99090039	1ph 230V	-	tester										

█ Max charge capacity (15h)      █ Boost capacity  
█ Maintenance                      █ 5min Fast charge + Boost

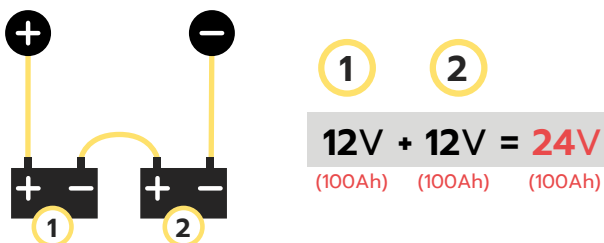
20 Ah	60 Ah	80 Ah	100 Ah	150 Ah	200 Ah	> 250 Ah

## CHARGERS

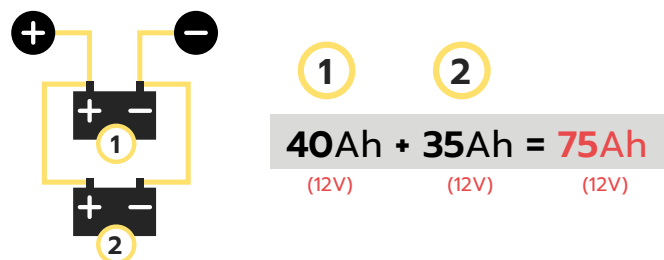
Model	Max charge capacity (15h)	Maintenance	Boost capacity	5min Fast charge + Boost
PROGRESS 14	~40 Ah			
PROGRESS 17	~60 Ah			
PROGRESS 20	~80 Ah			
ARTIK 22	~80 Ah			
ARTIK 33	~100 Ah			
PROGRESS 25	~100 Ah			
PROGRESS 35	~100 Ah			
PROGRESS 35B	~100 Ah			
AUTOMATIC 30	~100 Ah			
VOYAGER 4	~60 Ah	~40 Ah		
VOYAGER 8	~100 Ah	~80 Ah		
VOYAGER 16	~100 Ah	~100 Ah		
VOYAGER 25	~100 Ah	~100 Ah		
DISCOVERY MOTO	~20 Ah	~40 Ah		
DISCOVERY 60	~60 Ah	~80 Ah		
DISCOVERY 120 PLUS	~100 Ah	~100 Ah		
DISCOVERY 250	~100 Ah	~100 Ah		
EXPLORER 120	~100 Ah	~100 Ah		
EXPLORER 130	~100 Ah	~100 Ah		

## BATTERY CONNECTION

### SERIAL CONNECTION



### PARALLEL CONNECTION

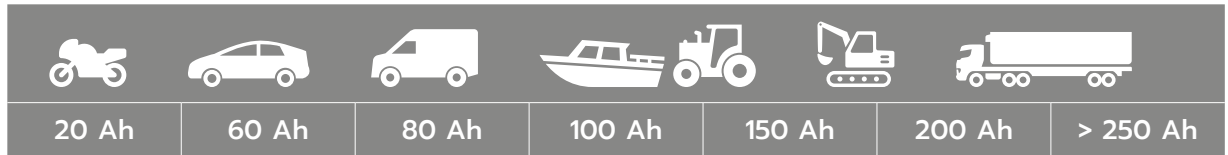




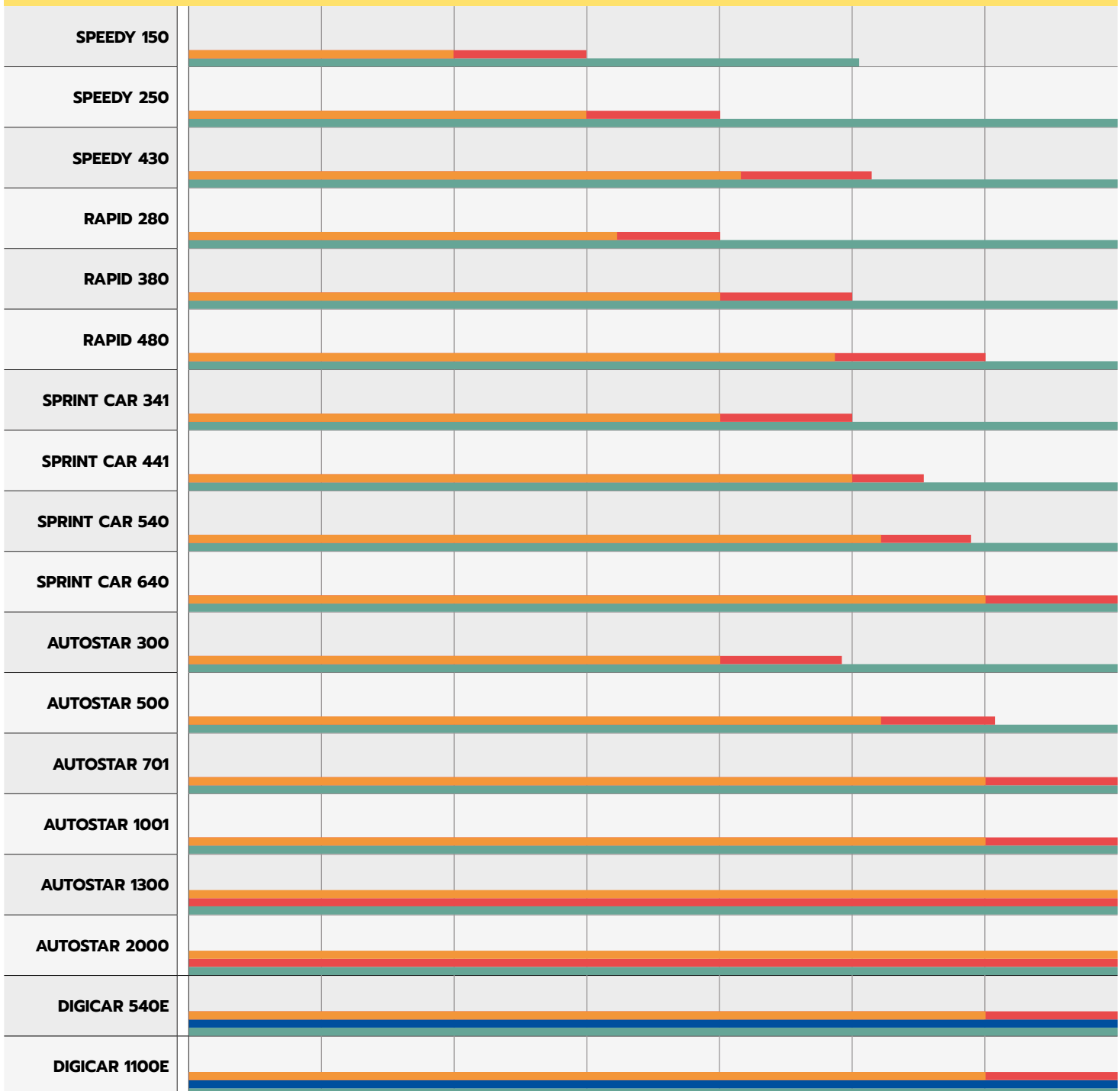
# PRODUCT GUIDE LINE

█ Max charge capacity (15h)  
█ Maintenance

█ Boost capacity  
█ 5min Fast charge + Boost



## CHARGERS AND STARTERS



**PROGRESS 14**

<b>Input voltage</b>	(1ph) 230V ± 10% · 50/60Hz
<b>Power</b>	140 W
<b>Battery Voltage</b>	6/12 V
<b>Amp. Eff.</b>	11 A
<b>Amp. 60335-2-29</b>	7,5 A
<b>Rated Ref. Cap.</b>	112 Ah 15h
<b>Charging Pos.</b>	2
<b>Dimens. (LxWxH)</b>	200x260x175 mm
<b>Box (LxWxH)</b>	230x275x205 mm
<b>Weight box/net</b>	4 / 3,1 Kg
<b>Part number</b>	99000067

Semi-professional battery chargers for lead storage batteries. Equipped with voltage and current selectors, ammeter, automatic thermal overload and polarity protection



**PROGRESS 17**

<b>Input voltage</b>	(1ph) 230V ± 10% · 50/60Hz
<b>Power</b>	300 W
<b>Battery Voltage</b>	12/24 V
<b>Amp. Eff.</b>	12,5 A
<b>Amp. 60335-2-29</b>	8,5 A
<b>Rated Ref. Cap.</b>	128 Ah 15h
<b>Charging Pos.</b>	2
<b>Dimens. (LxWxH)</b>	200x260x175 mm
<b>Box (LxWxH)</b>	230x275x205 mm
<b>Weight box/net</b>	5 / 4,1 Kg
<b>Part number</b>	99000068

Semi-professional battery chargers for lead storage batteries. Equipped with voltage and current selectors, ammeter, automatic thermal overload and polarity protection



**PROGRESS 20**

<b>Input voltage</b>	(1ph) 230V ± 10% · 50/60Hz
<b>Power</b>	390 W
<b>Battery Voltage</b>	12/24 V
<b>Amp. Eff.</b>	16 A
<b>Amp. 60335-2-29</b>	11 A
<b>Rated Ref. Cap.</b>	165 Ah 15h
<b>Charging Pos.</b>	2
<b>Dimens. (LxWxH)</b>	200x260x175 mm
<b>Box (LxWxH)</b>	230x275x205 mm
<b>Weight box/net</b>	7 / 6,1 Kg
<b>Part number</b>	99000069

Semi-professional battery chargers for lead storage batteries. Equipped with voltage and current selectors, ammeter, automatic thermal overload and polarity protection



	ARTIK 22	ARTIK 33
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	430 W	600 W
Battery Voltage	12/24 V	12/24 V
Amp. Eff.	18 A	25 A
Amp. 60335-2-29	12 A	17 A
Rated Ref. Cap.	180 Ah 15h	255 Ah 15h
Charging Pos.	4	4
Dimens. (LxWxH)	235x220x335 mm	235x220x335 mm
Box (LxWxH)	295x255x390 mm	295x255x390 mm
Weight box/net	8,5 / 7,8 Kg	9,6 / 8,9 Kg
Part number	99000077	99000072

Semi-professional battery chargers for lead storage batteries. Equipped with voltage and current selectors, ammeter, automatic thermal overload and polarity protection.



	PROGRESS 25	PROGRESS 35	PROGRESS 35B
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	620 W	920 W	1830 W
Battery Voltage	6/12/24 V	6/12/24 V	6/12/24/36/48 V
Amp. Eff.	25 A	38 A	38 A
Amp. 60335-2-29	17 A	25 A	25 A
Rated Ref. Cap.	255 Ah 15h	375 Ah 15h	375 Ah 15h
Charging Pos.	6	12	12
Dimens. (LxWxH)	245x250x435 mm	245x250x435 mm	245x250x435 mm
Box (LxWxH)	280x285x465 mm	280x285x465 mm	280x285x465 mm
Weight box/net	12,8 / 12,2 Kg	18 / 17,4 Kg	22,8 / 22,2 Kg
Part number	99000031	99000032	99000040

Professional battery chargers suitable for large recharging plants. Equipped with voltage and current selectors, ammeter, voltmeter, automatic thermal overload protection.



	AUTOMATIC 30
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	720 W
Battery Voltage	12/24 V
Amp. Eff.	30 A
Amp. 60335-2-29	20 A
Rated Ref. Cap.	300 Ah 15h
Charging Pos.	∞
Dimens. (LxWxH)	235x220x335 mm
Box (LxWxH)	295x255x390 mm
Weight box/net	10,8 / 10,1 Kg
Part number	99000066

Automatic battery chargers ideal for AGM, GEL, Lead and Start/Stop batteries with electronic control of the charging current. Warning LEDs indicate the battery condition, charging current regulation by potentiometer. Automatic charging and maintenance function.



**NEW**

<b>VOYAGER 4</b>	
<b>Input voltage</b>	(1ph) <b>230V ± 10% · 50/60Hz</b>
<b>Battery voltage</b>	<b>6 V</b>   <b>12 V</b>
<b>Charging current</b>	<b>1A / 4A</b>   <b>1A / 4A</b>
<b>Charge capacity (12V)</b>	<b>5-80Ah (LiFePO<sub>4</sub> 1-80Ah)</b>
<b>Maintenance capacity (12V)</b>	<b>5-120Ah (LiFePO<sub>4</sub> 1-120Ah)</b>
<b>Charging positions</b>	<b>9</b>
<b>Functions</b>	Battery tester · Desulfating
<b>Protections</b>	Reverse polarity · Short circuit Overheating · Overload Over-temperature · Spark protection
<b>DC Power supply</b>	<b>N/A</b>
<b>IP Degree</b>	<b>IP65</b>
<b>Dimensions (LxWxH)</b>	<b>181 x 91 x 58 mm</b>
<b>Weight</b>	<b>0,75 Kg</b>
<b>Part number</b>	<b>99000086</b>

NEW GENERATION SMART BATTERY CHARGER · Battery voltage check · Engine start test · Alternator test · 100% Full automatic · Digital display · 9 Step charging technology · Microprocessor controlled · Power failure recovery · Pb · GEL · Ca/Ca · AGM · Start/Stop · LiFePO<sub>4</sub> · Reverse connection protection system · Easy to use · Charging maintenance optimization · Ergonomic design



Pb

Gel

Ca/Ca

AGM

Start/Stop

LiFePO<sub>4</sub>

**NEW**

<b>VOYAGER 8</b>	
<b>Input voltage</b>	(1ph) <b>230V ± 10% · 50/60Hz</b>
<b>Battery voltage</b>	<b>12 V</b>   <b>24 V</b>
<b>Charging current</b>	<b>2A / 4A / 8A</b>   <b>2A / 4A</b>
<b>Charge capacity (12V)</b>	<b>10-160Ah (LiFePO<sub>4</sub> 10-160Ah)</b>
<b>Maintenance capacity (12V)</b>	<b>10-250Ah (LiFePO<sub>4</sub> 2-250Ah)</b>
<b>Charging positions</b>	<b>9</b>
<b>Functions</b>	Battery tester · Desulfating · Power Supply
<b>Protections</b>	Reverse polarity · Short circuit Overheating · Overload Over-temperature · Spark protection
<b>DC Power supply</b>	<b>13,8 V · 5 A</b>
<b>IP Degree</b>	<b>IP65</b>
<b>Dimensions (LxWxH)</b>	<b>223 x 112 x 68 mm</b>
<b>Weight</b>	<b>0,91 Kg</b>
<b>Part number</b>	<b>99000087</b>

NEW GENERATION SMART BATTERY CHARGER · Battery voltage check · Engine start test · Alternator test · 100% Full automatic · Digital display · 9 Step charging technology · Microprocessor controlled · Power failure recovery · Supply mode · Pb · GEL · Ca/Ca · AGM · Start/Stop · LiFePO<sub>4</sub> · Reverse connection protection system · Easy to use · Charging maintenance optimization · Ergonomic design



Pb

Gel

Ca/Ca

AGM

Start/Stop

LiFePO<sub>4</sub>



<b>VOYAGER 16</b> <span style="float: right; background-color: red; color: white; padding: 2px 5px; font-weight: bold;">NEW</span>	
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Battery voltage	12 V   24 V
Charging current	4A / 8A / 16A   4A / 8A
Charge capacity (12V)	20-360Ah (LiFePO <sub>4</sub> 4-360Ah)
Maintenance capacity (12V)	20-550Ah (LiFePO <sub>4</sub> 4-550Ah)
Charging positions	9
Functions	Battery tester · Desulfating · Power Supply
Protections	Reverse polarity · Short circuit Overheating · Overload Over-temperature · Spark protection
DC Power supply	13,8 V · 12 A
IP Degree	IP20
Dimensions (LxWxH)	298 x 152 x 88 mm
Weight	1,83 Kg
Part number	<b>375,00 €</b>
Codice	99000088

NEW GENERATION SMART BATTERY CHARGER · Battery voltage check · Engine start test · Alternator test · 100% Full automatic · Digital display · 9 Step charging technology · Microprocessor controlled · Power failure recovery · Supply mode · Pb · GEL · Ca/Ca · AGM · Start/Stop · LiFePO<sub>4</sub> · Reverse connection protection system · Easy to use · Charging maintenance optimization · Ergonomic design

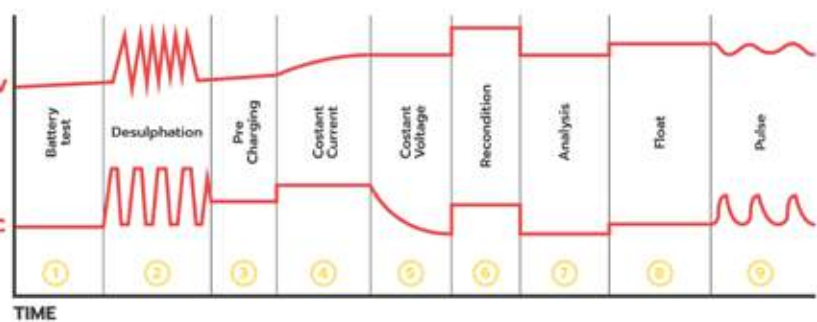


<b>VOYAGER 25</b> <span style="float: right; background-color: red; color: white; padding: 2px 5px; font-weight: bold;">NEW</span>	
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Battery voltage	12 V   24 V
Charging current	6A / 12A / 24A   6A / 12A
Charge capacity (12V)	30-550Ah (LiFePO <sub>4</sub> 6-550Ah)
Maintenance capacity (12V)	30-800Ah (LiFePO <sub>4</sub> 6-800Ah)
Charging positions	9
Functions	Battery tester · Desulfating · Power Supply
Protections	Reverse polarity · Short circuit Overheating · Overload Over-temperature · Spark protection
DC Power supply	13,8 V · 20 A
IP Degree	IP20
Dimensions (LxWxH)	298 x 152 x 88 mm
Weight	2,11 Kg
Part number	<b>99000089</b>

NEW GENERATION SMART BATTERY CHARGER · Battery voltage check · Engine start test · Alternator test · 100% Full automatic · Digital display · 9 Step charging technology · Microprocessor controlled · Power failure recovery · Supply mode · Pb · GEL · Ca/Ca · AGM · Start/Stop · LiFePO<sub>4</sub> · Reverse connection protection system · Easy to use · Charging maintenance optimization · Ergonomic design



### 9 STEP AUTOMATIC FAST CHARGE



- ### VOYAGER RANGE
- |                    |               |
|--------------------|---------------|
| 1 Battery Test     | 6 Recondition |
| 2 Desulphation     | 7 Analysis    |
| 3 Pre Charging     | 8 Float       |
| 4 Constant Current | 9 Pulse       |
| 5 Constant Voltage |               |

DISCOVERY MOTO	
Input voltage	(1ph) 230V ± 10% • 50/60Hz
Power	21 W
Battery Voltage	12 V
Amp. 60335-2-29	1,5 A
Rated Ref. Cap.	9/20 Ah 15h
Charging Pos.	-
Dimens. (LxWxH)	108x56x48 mm
Box (LxWxH)	165x65x110 mm
Weight box/net	0,35 / 0,30 Kg
Part number	99000076

Range of completely electronic battery charger with no output voltage spikes, which can damage the vehicles' circuit boards. Ideal for charging AGM, Ca/Ca, GEL, lead and Start/Stop batteries. The user has the possibility of setting the charge voltage and current to various levels based on the models. Fix current 1,5 Amp. IP65 protection against atmospheric agents.

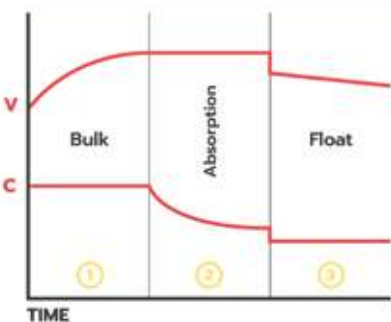


DISCOVERY 60	
Input voltage	(1ph) 230V ± 10% • 50/60Hz
Power	65 W
Battery Voltage	6/12 V
Amp. 60335-2-29	4 A
Rated Ref. Cap.	60 Ah 15h
Charging Pos.	4
Dimens. (LxWxH)	225x80x50 mm
Box (LxWxH)	255x155x60 mm
Weight box/net	0,7 / 0,65 Kg
Part number	99000074

Range of completely electronic battery charger with no output voltage spikes, which can damage the vehicles' circuit boards. Ideal for charging AGM, Ca/Ca, GEL, lead, Start/Stop and LiFePO<sub>4</sub> batteries. The user has the possibility of setting the charge voltage and current to various levels based on the models. 6/12V voltage selection, four-level current steps, ideal for motorcycles and cars. Maintenance function. IP65 protection against atmospheric agents.



### 3 LEVEL CHARGING



### DISCOVERY MOTO

- 1 Bulk
- 2 Absorption
- 3 Float

### 4 LEVEL CHARGING



### DISCOVERY 60

- 1 Soft Start
- 2 Bulk
- 3 Absorption
- 4 Float

Range of completely electronic battery charger with no output voltage spikes, which can damage the vehicles' circuit boards. Ideal for charging AGM, Ca/Ca, GEL, lead, Start/Stop and LiFePO<sub>4</sub> batteries. The user has the possibility of setting the charge voltage and current to various levels based on the models. 12/24 V voltage, nine-level current steps, ideal for cars, vans and small boats. Desulphation function and lcd display. Maintenance and Supply functions. IP65 protection against atmospheric agents.

DISCOVERY 120 PLUS	
Input voltage	(1ph) 230V ± 10% • 50/60Hz
Power	135 W
Battery Voltage	12 V      24 V
Amp. 60335-2-29	7,6 A      3,8 A
Rated Ref. Cap.	120 Ah 15h
Charging Pos.	9
Dimens. (LxWxH)	235x100x60 mm
Box (LxWxH)	280x175x75 mm
Weight box/net	0,9 / 0,85 Kg
Part number	99000083

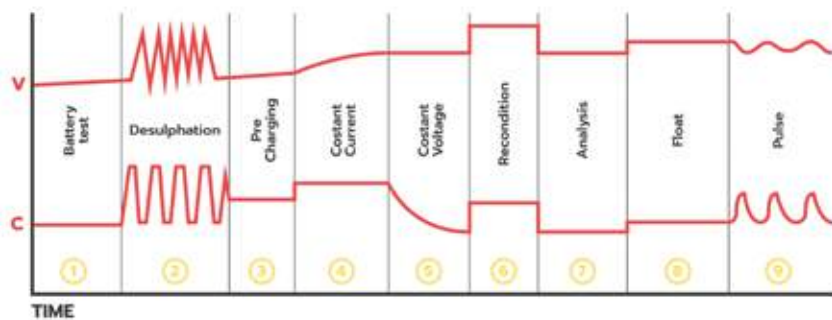


DISCOVERY 250	
Input voltage	(1ph) 230V ± 10% • 50/60Hz
Power	300 W
Battery Voltage	12 V      24 V
Amp. 60335-2-29	16 A      8 A
Rated Ref. Cap.	250 Ah 15h
Charging Pos.	9
Dimens. (LxWxH)	295x125x75 mm
Box (LxWxH)	340x215x90 mm
Weight box/net	1,4 / 1,2 Kg
Part number	99000082

Range of completely electronic battery charger with no output voltage spikes, which can damage the vehicles' circuit boards. Ideal for charging AGM, Ca/Ca, GEL, lead, Start/Stop and LiFePO<sub>4</sub>. The user has the possibility of setting the charge voltage and current to various levels based on the models. 12/24 V voltage, nine-level current steps, ideal for cars, vans and small boats. Desulphation function and lcd display. Maintenance function. IP65 protection against atmospheric agents.



### 9 STEP AUTOMATIC FAST CHARGE



### DISCOVERY 120 PLUS / DISCOVERY 250

- 1 Battery Test
- 2 Desulphation
- 3 Pre Charging
- 4 Constant Current
- 5 Constant Voltage
- 6 Recondition
- 7 Analysis
- 8 Float
- 9 Pulse









POWER  
230V



USB



**NEW**

	EXPLORER 120	EXPLORER 130
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	1600 W	2000 W
Battery Voltage	12 V	12 V
Amp. 60335-2-29	100 A	120 A
Rated Ref. Cap.	1200 Ah 15h	1500 Ah 15h
Charging Pos.	∞	∞
Dimens. (LxHxW)	320x229x110 mm	330x130x282 mm
Box (LxHxW)	345x230x350 mm	405x215x385 mm
Weight box/net	8,6 / 4,7 Kg	10,5 / 6,5 Kg
Part number	99000084	99000085

**PERFECT FOR BATTERY SUPPORT DURING DIAGNOSTIC AND REPROGRAMMING**

Our new multi-process battery chargers EXPLORER 120 and 130 are designed with the latest inverter technology and are fully connected. Capable of charging up to 120Amp. They can charge 12V batteries, both Lead (Gel, AGM, Liquid, Calcium) and Lithium (LiFePO4). Perfect as equipment to support the battery during diagnostic (reprogramming) or showroom needs.

**4 OPERATING MODES:**

Charge: for 12 V Lead (Gel, AGM, Liquid, Calcium) or Lithium (LiFePO4) batteries from 5 to 1500 Ah · Diagnostic: battery support function up to 120Amp for 12V batteries during the reprogramming of the vehicles' PCBS or during diagnostic test · Showroom: provides the battery with current compensation when using the electrical accessories of a demonstration vehicle · Tester: possibility to test the vehicle's battery. Alternator test or boosting test.

**AUTOMATIC CHARGE:**

Equipped with an "Automatic Charge" mode which allows to extend the battery life and performance. The software in charging mode has 2 different charging curves between Lead and Lithium batteries. 8 step charge for Lead and 9 step charge for Lithium batteries.

**ADVANCED MODES:**

In addition to the functions listed above, the battery chargers have advanced modes such as: "Auto-detect" charging process that allows the start of the charge in automatic mode · "Auto-restart" function: in case of power failure the device restarts from the stop point · Calibration function in case of charging cables over 5 meters (8 meters max) · 11 customizable profiles: possibility to save customized profiles according to the user preference

**OTHER FEATURES:**

USB port: Possibility to add, cancel or change the charging modes thanks to USB devices. Possibility to extract data for analysis. · Safe: it has various control and safety systems. Protection against short-circuits, reverse polarity, overcharging. Equipped with temperature sensor to prevent electronic part overheating · Shockproof and anti-vibration structure · Without external ventilation. Advantages: silent operation and no infiltration of dust or dirt from the outside.



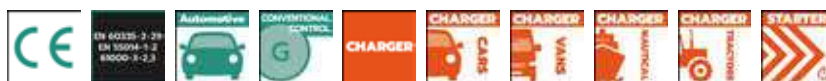
	<b>SPEEDY 150</b>
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	190 W
Battery Voltage	12 V
Amp. Eff.	16 A
Amp. 60335-2-29	11 A
Max. boost current	140 Acc
Amp 1/C	85 A
Rated Ref. Cap.	165 Ah 15h
Charging Pos.	2 + Boost
Dimens. (LxWxH)	200x260x175 mm
Box (LxWxH)	230x275x205 mm
Weight box/net	7 / 6,6 Kg
Part number	99005051

Portable battery chargers and starters. Equipped with charging current control selector, ammeter, thermal overload protection, internal fuse protection against short circuits and polarity reversal.



	<b>SPEEDY 250</b>	<b>SPEEDY 430</b>
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	650 W	1000 W
Battery Voltage	12/24 V	12/24 V
Amp. Eff.	27 A	42 A
Amp. 60335-2-29	18 A	28 A
Max. boost current	220 Acc	380 Acc
Amp 1/C	135 A	260 A
Rated Ref. Cap.	270 Ah 15h	420 Ah 15h
Charging Pos.	2 + Boost	3 + Boost
Dimens. (LxWxH)	235x220x335 mm	245x250x435 mm
Box (LxWxH)	295x255x390 mm	280x285x465 mm
Weight box/net	11,4 / 10,7 Kg	16,8 / 16,2 Kg
Part number	99005052	99005031

Portable battery chargers and starters. Equipped with charging current control selector, ammeter, thermal overload protection, internal fuse protection against short circuits and polarity reversal.



	<b>RAPID 280</b>	<b>RAPID 380</b>
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	460 W	900 W
Battery Voltage	12 V	12/24 V
Amp. Eff.	38 A	38 A
Amp. 60335-2-29	25 A	25 A
Max. boost current	240 Acc	280 Acc
Amp 1/C	160 A	200
Rated Ref. Cap.	375 Ah 15h	375 Ah 15h
Charging Pos.	2 + Boost	2 + Boost
Dimens. (LxWxH)	235x220x335 mm	235x220x335 mm
Box (LxWxH)	295x255x390 mm	295x255x390 mm
Weight box/net	13,6 / 12,9 Kg	13,8 / 13,1 Kg
Part number	99005040	99005041

Portable battery chargers and starters. Equipped with charging current control selector, ammeter, thermal overload protection, internal fuse protection against short circuits and polarity reversal.



	<b>RAPID 480</b>
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	1320 W
Battery Voltage	12/24 V
Amp. Eff.	55 A
Amp. 60335-2-29	36 A
Max. boost current	450 Acc
Amp 1/C	315 A
Rated Ref. Cap.	540 Ah 15h
Charging Pos.	6 + Boost
Dimens. (LxWxH)	245x250x435 mm
Box (LxWxH)	280x285x465 mm
Weight box/net	20,4 / 19,8 Kg
Part number	99005053

Portable battery chargers and starters. Equipped with charging current control selector, ammeter, thermal overload protection, internal fuse protection against short circuits and polarity reversal.





	<b>SPRINT CAR 341</b>	<b>SPRINTCAR 441</b>
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	1000 W	1320 W
Battery Voltage	12/24 V	12/24 V
Amp. Eff.	45 A	55 A
Amp. 60335-2-29	30 A	36 A
Max. boost current	300 Acc	380 Acc
Amp 1/C	200 A	260 A
Rated Ref. Cap.	450 Ah 15h	540 Ah 15h
Charging Pos.	3 + Boost	3 + Boost
Dimens. (LxWxH)	395x260x770 mm	395x260x770 mm
Box (LxWxH)	360x280x660 mm	360x280x660 mm
Weight box/net	18,5 / 17,6 Kg	21,8 / 20,9 Kg
Part number	99010046	99010047

Professional battery chargers and starters on wheels. Equipped with slow/fast charging current selector, ammeter, thermal overload protection and internal fuse protection against short circuits and polarity reversal.



	<b>SPRINT CAR 540</b>	<b>SPRINT CAR 640</b>
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	1440 W	1800 W
Battery Voltage	12/24 V	12/24 V
Amp. Eff.	60 A	75 A
Amp. 60335-2-29	40 A	50 A
Max. boost current	480 Acc	580 Acc
Amp 1/C	330 A	400 A
Rated Ref. Cap.	600 Ah 15h	750 Ah 15h
Charging Pos.	6 + Boost	6 + Boost
Dimens. (LxWxH)	465x350x840 mm	465x350x840 mm
Box (LxWxH)	330x395x790 mm	330x395x790 mm
Weight box/net	30,8 / 29,5 Kg	32 / 30,7 Kg
Part number	99010041	99010030

Professional battery chargers and starters on wheels. Equipped with slow/fast charging current selector, ammeter, thermal overload protection and internal fuse protection against short circuits and polarity reversal. Charge timer function.





# CAR PROTECTION SYSTEM

The battery chargers equipped with **CPS Safe Car system** allow the charge or starting (boosting) of the vehicles in safety mode with the goal to preserve the integrity of both the battery and the electronics on board.

**Autostar range (CPS Boost):** Starting (Boosting) function with safety mode. The Autostar range thanks to the CPS – Car Protection system, allow the boosting of the vehicles in total safety. An electronic control allow to verify the charge status of the battery on board. The boosting start only within certain conditions. The pcb control the output voltage spikes in order to protect the electronics on board. **Digicar range (Full CPS):** this range has both the safety boosting mode and the possibility to control and set the charge of the batteries in an efficient mode, without disconnecting the battery from its terminals.

**Possibility to set / view:**

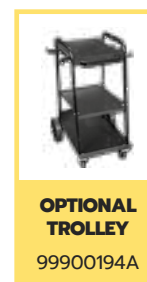
- type of battery to charge (optimal charging curve for each type)
- charging mode
- charging current or time of charging thanks to the easy to use potentiometer
- to view the set parameters thanks to the digital display

# CPS



	AUTOSTAR 300	AUTOSTAR 500
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Power	460 W	1300 W
Battery Voltage	12 V	12/24 V
Amp. Eff.	38 A	55 A
Amp. 60335-2-29	25 A	36 A
Max. boost current	300 Acc	450 Acc
Amp 1/C	210 A	320 A
Rated Ref. Cap.	375 Ah 15h	540 Ah 15h
Charging Pos.	2 + Boost	6 + Boost
Dimens. (LxWxH)	345x250x280 mm	345x250x280 mm
Box (LxWxH)	440x275x255 mm	440x275x255 mm
Weight box/net	14,4 / 13,7 Kg	19 / 18,3 Kg
Part number	99005043	99005044

Portable battery chargers and starters. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car protection system) system in order to activate and disable, in a fully automatic way, the boosting function to protect the on board vehicle's board.



**AUTOSTAR 701**

<b>Input voltage</b>	(1ph) 230V ± 10% · 50/60Hz
<b>Power</b>	1800 W
<b>Battery Voltage</b>	12/24 V
<b>Amp. Eff.</b>	75 A
<b>Amp. 60335-2-29</b>	50 A
<b>Max. boost current</b>	580 Acc
<b>Amp 1/C</b>	400 A
<b>Rated Ref. Cap.</b>	750 Ah 15h
<b>Charging Pos.</b>	6 + Boost
<b>Dimens. (LxWxH)</b>	465x350x840 mm
<b>Box (LxWxH)</b>	420x350x770 mm
<b>Weight box/net</b>	32,6 / 31,3 Kg
<b>Part number</b>	99010037

Battery chargers and starters on wheels. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car protection system) system in order to activate and disable, in a fully automatic way, the boosting function to protect the on board vehicle's board.


**AUTOSTAR 1001**

<b>Input voltage</b>	(3ph) 230/400V ± 10% 50/60Hz
<b>Power</b>	2200 W
<b>Battery Voltage</b>	12/24 V
<b>Amp. Eff.</b>	90 A
<b>Amp. 60335-2-29</b>	60 A
<b>Max. boost current</b>	1000 Acc
<b>Amp 1/C</b>	560 A
<b>Rated Ref. Cap.</b>	900 Ah 15h
<b>Charging Pos.</b>	14 + Boost
<b>Dimens. (LxWxH)</b>	465x350x840 mm
<b>Box (LxWxH)</b>	420x350x770 mm
<b>Weight box/net</b>	55,2 / 53,7 Kg
<b>Part number</b>	99010038

Battery chargers and starters on wheels. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car protection system) system in order to activate and disable, in a fully automatic way, the boosting function to protect the on board vehicle's board.



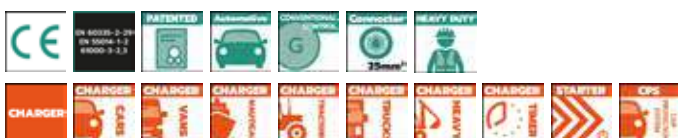
AUTOSTAR 1300	
Input voltage	(3ph) 230/400V ± 10% · 50/60Hz
Power	2900 W
Battery Voltage	12/24 V
Amp. Eff.	120 A
Amp. 60335-2-29	80 A
Max. boost current	1300 Acc
Amp 1/C	850 A
Rated Ref. Cap.	1200 Ah 15h
Charging Pos.	12 + Boost
Dimens. (LxWxH)	575x330x770 mm
Box (LxWxH)	450x380x705 mm
Weight box/net	70,6 / 69,2 Kg
Part number	99010042

Battery chargers and starters on wheels. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car protection system) system in order to activate and disable, in a fully automatic way, the boosting function to protect the on board vehicle's board.



AUTOSTAR 2000	
Input voltage	(3ph) 230/400V ± 10% · 50/60Hz
Power	3600 W
Battery Voltage	12/24 V
Amp. Eff.	150 A
Amp. 60335-2-29	120 A
Max. boost current	2000 Acc
Amp 1/C	1100 A
Rated Ref. Cap.	1800 Ah 15h
Charging Pos.	12 + Boost
Dimens. (LxWxH)	575x330x770 mm
Box (LxWxH)	450x380x705 mm
Weight box/net	89,2 / 87,8 Kg
Part number	99010043

Battery chargers and starters on wheels. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car protection system) system in order to activate and disable, in a fully automatic way, the boosting function to protect the on board vehicle's board.





## DIGICAR: NEW INTELLIGENT CHARGER/STARTER

The new DIGICAR are professional charger/starter with electronic control (microprocessor). An advanced control panel allows the user to select different type of batteries to charge (AGM, GEL, LIQUID or UNIVERSAL), 4 different charging levels (accordingly to the battery capacity), and/or to set a charging time (TIMER).

The electronic charging control guarantee an optimized battery charge (100%) and to avoid to disconnect the battery from the vehicle. The user is not required to check/control the charging process since that is fully automatic and safe.

Once the charging phase is complete, the DIGICAR will start the maintenance step. Battery voltage (12V or 24V) is shown on the display on board. During the charging phase it's possible to visualize the battery voltage, the charging % or residual charging time.

Moreover, thanks to 3 LED on the control panel, the user can check the battery status (Low, Medium, Fully charged). DIGICAR models are equipped with advanced safety systems such as: reverse polarity, overcurrent, battery fault, safe and protect boosting process.

**SUPPLY FUNCTION:** a very important feature for the new DIGICAR range is the SUPPLY function, which allows to keep supplied a vehicle's battery (at 13,5V or 27V) during the reprogramming of vehicle's electronic units.

**SAFE START:** thanks to the advanced electronic system (CPS), the DIGICAR range allow a safe and protect boost of the vehicles (at 12V or 24V). Very useful with modern vehicles which are equipped with various electronic boards that might get damaged in case of not-protect boosting with high voltage peak.

**AUTOMATIC START:** the CPS system do not require remote control for starting the vehicle. All DIGICAR models will supply the starting current only once the user turns the car's key.

	<b>DIGICAR 540E</b>
<b>Input voltage</b>	(1ph) 230V ± 10% · 50/60Hz
<b>Power</b>	1320 W
<b>Battery Voltage</b>	12/24 V
<b>Amp. Eff.</b>	55 A
<b>Amp. 60335-2-29</b>	36 A
<b>Max. boost current</b>	380 Acc
<b>Amp 1/C</b>	260 A
<b>Rated Ref. Cap.</b>	540 Ah 15h
<b>Charging Pos.</b>	4 + Boost
<b>Dimens. (LxWxH)</b>	395x260x770 mm
<b>Box (LxWxH)</b>	360x280x660 mm
<b>Weight box/net</b>	22,6 / 21,7 Kg
<b>Part number</b>	99010049



DIGICAR 1100E + SUPPLY	
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	2200 W
Battery Voltage	12/24 V
Amp. Eff.	100 A
Amp. 60335-2-29	70 A
Max. boost current	580 Acc
Amp 1/C	400 A
Rated Ref. Cap.	1000 Ah 15h
Charging Pos.	4 + Boost + Supply
Dimens. (LxWxH)	465x350x840 mm
Box (LxWxH)	420x350x770 mm
Weight box/net	35 / 33,5 Kg
Part number	99010051



## CONTROL PANEL



- 1 Selection charge level or boost mode
- 2 Battery type selection
- 3 SUPPLY function
- 4 Timer
- 5 LED: Charge status or errors indication
- 6 Start/Stop key
- 7 Display: battery voltage (charge), residual time, overcurrent
- 8 ON/OFF switch



**SMART CHARGER 3.8 Ah INCLUDED**

**FUSE Spare parts KIT INCLUDED**

Rechargeable power supply and boost starter ideal as an engine starter for cars, power boats, vans. It guarantees the lowest self-discharge and can be recharged by its own charger or from the cigarette lighter socket. Electronic memories on board are protected during the vehicles' batteries replacement. Several protection are fitted.

	<b>BOOSTY 25</b>	<b>BOOSTY 31</b>
Recharge	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz
Internal battery	12V 22Ah	12V 23Ah
Voltage	12V	12V
Boost rate	2500 Amp	3100 Amp
Cranking rate	850Amp	1170Amp
Charging capacity	14.9V max	14.9V max
Charging voltage	12V 3.8Ah	12V 3.8Ah
Charging technology	Smart Charger	Smart Charger
Lyfe of battery	400 Cicli	400 Cicli
Batteries	1	1
Sealed battery	▪	▪
Voltage Spikes protection	▪	▪
ABS shock-proof cases	▪	▪
Automatic charger	▪	▪
Lighter scocket cord	▪	▪
Trolley	-	-
Buzzer	-	-
Completely isolated clamps	▪	▪
Cable diameter	25 mm <sup>2</sup>	25 mm <sup>2</sup>
Lenght of cables	111 cm	111 cm
Dimens. (LxWxH)	430x160x335 mm	430x160x335 mm
Box (LxWxH)	470x180x370 mm	470x180x370 mm
Weight net	11,65 kg	13,6 kg
Part number	99005068	99005064







**SMART CHARGER 3.8 Ah INCLUDED**

**FUSE Spare parts KIT INCLUDED**

Rechargeable power supply and boost starter ideal as an engine starter for cars, power boats, vans. It guarantees the lowest self-discharge and can be recharged by its own charger or from the cigarette lighter socket. Electronic memories on board are protected during the vehicles' batteries replacement. Several protection are fitted.

	<b>BOOSTY TRUCK 12/24</b>	
Recharge	(1ph) 230V ± 10% · 50/60Hz	
Internal battery	12V 2x23 Ah	
Voltage	12V	24V
Boost rate	6200 Amp	3100 Amp
Cranking rate	2340 Amp	1170 Amp
Charging capacity	14.9 V	25,2 V
Charging voltage	12V 3.8Ah	
Charging technology	Smart Charger	
Lyfe of battery	400 Cikli	
Batteries	2	
Sealed battery	▪	
Voltage Spikes protection	▪	
ABS shock-proof cases	▪	
Automatic charger	▪	
Lighter scocket cord	▪	
Trolley	▪	
Buzzer	▪	
Completely isolated clamps	▪	
Cable diameter	50 mm <sup>2</sup>	
Lenght of cables	165 cm	
Dimens. (LxWxH)	370x285x465 mm	
Box (LxWxH)	380x295x485 mm	
Weight net	26 kg	
Part number	99005065	





**VELCRO ON THE BACK**

	<b>POWER UP 8.0</b>
<b>Input</b>	5V = 2A
<b>Output</b>	5V = 3A · 9V = 2A
<b>Output Quick Charge</b>	5V = 2.1A
<b>Output Jump Start</b>	12V
<b>Battery capacity</b>	8000 mAh
<b>Full charging time</b>	± 2h
<b>Start current</b>	200 A
<b>Peak current</b>	500A
<b>Operating temperature</b>	-20°C ~ 60°C
<b>Dimension</b>	156 x 83 x 29 mm
<b>Weight</b>	350 g
<b>Part number</b>	99005067

12V multifunction portable starter · High Efficiency LiPo Lithium Battery · 3 functions available: Booster 12V, Power Bank, Emergency LED light · Capable of starting all 12V vehicles up to 3.5L gasoline cars · USB port for charging electronic devices (mobile phones, tablets, MP3 players etc.) · Equipped with short-circuit protection, overload, over-discharge, polarity inversion, over-voltage · ABS structure with V0 fire rating · Long service life: over 1000 operating cycles





VELCRO ON THE BACK



	<b>SUPER POWER 13.0</b>
Input	5V ≍ 3A
Output	5V ≍ 2.4A
Output Quick Charge	5V ≍ 3A · 9V ≍ 2A · 12V ≍ 1.5A
Output DC	15V ≍ 10A
Output Type-C	15W
Output Jump Start	12V
Battery capacity	13000 mAh
Full charging time	± 5-6h
Start current	300 A
Peak current	800A
Operating temperature	-20°C ~ 60°C
Dimension	152 x 81 x 32 mm
Weight	1,2 Kg
Part number	99005069

12V multifunction portable starter · High Efficiency LiPo Lithium Battery · 3 functions available: Booster 12V, Power Bank, Emergency LED light · Capable of starting all 12V vehicles up to 3.5L gasoline cars · USB and USB Type-C port for charging electronic devices (mobile phones, tablets, MP3 players etc.) · Equipped with short-circuit protection, overload, over-discharge, polarity inversion, over-voltage · ABS structure with V0 fire rating · Long service life: over 1000 operating cycles





	<b>T1</b>
<b>Dimensions (LxWxH)</b>	<b>90x55x30 mm</b>
<b>Weight net</b>	<b>0,20 kg</b>
<b>Part number</b>	<b>99090040</b>

2V Digital Read-out Battery Tester · Test and control of battery and alternator · Check the battery charge power status · Test whether the alternator is working properly · Battery start capacity control · Battery overcharging indication · Direct 12V cigarette socket plug-in · USB socket for 5V for powering mobile phones, I-pod, I-pad and laptops



	<b>T5</b>	<b>T10</b>
<b>Case dimensions (LxWxH)</b>	<b>320x105x285 mm</b>	<b>310x95x275 mm</b>
<b>Dimensions (LxWxH)</b>	<b>320x105x285 mm</b>	<b>320x105x285 mm</b>
<b>Weight net</b>	<b>1,6 / 1,3 kg</b>	<b>1,8 / 1,6 kg</b>
<b>Part number</b>	<b>99090038</b>	<b>99090039</b>



**PROFESSIONAL BATTERY & ELECTRICAL SYSTEM ANALYZER**

**MAIN FEATURES:**

Reverse polarity and short circuit protection · Ease of use: Pictograms only. No text · Touch screen with sensor technology · Premium Carry-On Case · Modern LCD Display

**MODEL T5**

Battery Tester and Electrical System Analyzer · 12V Car & Motorcycles Batteries · Fully graphical display · WET, AGM, EFB & GEL Batteries · CCA, SAE, EN, IEC, DIN, CA, JIS · Starter & Alternator Tests · Data transfer to PC · Premium carry-on case

**MODEL T10**

12V Car & Motorcycles Batteries · Fully graphical display · WET, AGM, AGM Spiral EFB, CA & GEL Batteries · CCA, SAE, EN, EN1, EN2, IEC, DIN, CA/MCA, JIS · Starter & Alternator Tests · Grounding Tests · Data transfer to PC · Memory savings · Premium carry-on case · Built-in Printer










## MMA ( ELECTRODE )

**HOT START** is an increased welding current value compare to the set value. This extra current will be delivered during the arc strike to facilitate it. This function allows arc strike without metallurgic defective on the welding joint, easy start and anti-sticking function. • **ARC-FORCE** it's an automatic welding current increase that is delivered when the arc, during the welding, is too short. Doing so we avoid electrode sticking, a better quality and semplicity of welding. Particularly useful in case of use of basic and cellulosic electrodes and during vertical welding). • **ANTI-STICKING**: this is an electronic function that control and reduces the welding current to a very low value in case of sticking electrode.



## TIG LIFT

**LIFT ARC START**: arc strike in LIFT mode. When the electrode touch the material to be welded, the current lift up to set value with a slop up value, avoiding to damage the electrode and to contaminate the welding bead. • **SLOPE UP**: the welding current reach the current set value at the select time. The slope up avoid to damage the electrode and to set a soft start on material to be welded. • **SLOP DOWN**: the welding current turn off at the set time. This allow the user to fill the crater that might form at the end of the welding bead. • **PULSE FREQUENCY**: in TIG Pulse mode, the user has the possibility to set the square wave frequency. It helps to reduce the heat transfer on the material to weld; to concentrate the weld seam and to have a higher penetration. • **POST GAS**: set time to allow the gas to protect and cool down the welding bead at the end of the process.

# MMA / TIG LIFT • WELDING

	PART NUMBER	CODE CASE KIT	CODE BAG KIT	CODE BOX KIT	AMP MAX	INPUT VOLTAGE	MAX Ø ELECTRODE	CABLE CONNECT.	TIG
JET 155	99200076	-	-	-	140A	1ph 230V	3,25 mm	Direct	
UTIL 166N	99200079	-	-	-	140A	1ph 230V	3,25 mm	Direct	
NOVA 191N	99200081	-	-	-	170A	1ph 230/400V	4 mm	Lugs	
UTIL186N	99200089	-	-	-	150A	1ph 230V	3,25 mm	Direct	
NOVA 260N	99200085	-	-	-	190A	1ph 230/400V	4 mm	Lugs	
SPARC 146	99805991	-	-	99806001	120A	1ph 230V ± 10%	3,25 mm	25 mm <sup>2</sup>	
SPARC 186	99805992	-	99806012	99806002	160A	1ph 230V ± 10%	4 mm	25 mm <sup>2</sup>	
SPARC 226	99805993	-	99806013	99806003	200A	1ph 230V ± 10%	4 mm	25 mm <sup>2</sup>	
GALILEO 179	99806008	-	99806010	-	160A	1ph 230V ± 10%	4 mm	50 mm <sup>2</sup>	■
GALILEO 219	99806009	-	99806011	-	200A	1ph 230V ± 10%	5 mm	50 mm <sup>2</sup>	■
FLEXY 160	99805986	99805987	-	-	160A	1ph 115/230V ± 10%	4 mm	50 mm <sup>2</sup>	■



	<b>JET 155N</b>
Input Voltage	(1ph) 230V 50/60Hz
Power 60%	3 KVA
U <sub>o</sub>	48 V
Amp. Min-Max	35 ÷ 140 A±10%
Ø Electrode	1,6 ÷ 3,25 mm
Insulation	H
Protec. Degree	IP21S
Dimens. (LxWxH)	215x370x290 mm
Box (LxWxH)	240x450x305 mm
Weight box/net	15,2 / 14,5 Kg
Price number	99200076

Single-phase AC portable welding units. Stepless control of the welding current. Thermostatic overload protection, complete with welding accessories.



<b>INCLUDED</b>	
Hammer / Brush	21905039
Welding plastic mask	21905064

	<b>UTIL 166N</b>	<b>NOVA 191N</b>
Input Voltage	(1ph) 230V 50/60Hz	(1ph) 230/400V 50/60Hz
Power 60%	3,2 KVA	4 KVA
U <sub>o</sub>	48 V	48 V
Amp. Min-Max	35 ÷ 140 A±10%	35 ÷ 170 A±10%
Ø Electrode	1,6 ÷ 3,25 mm	1,6 ÷ 4 mm
Insulation	H	H
Protec. Degree	IP21S	IP21S
Dimens. (LxWxH)	255x410x315 mm	255x500x350 mm
Box (LxWxH)	285x490x325 mm	280x550x355 mm
Weight box/net	16,6 / 15,8 Kg	19,6 / 18,5 Kg
Price number	99200079	99200081

Single-phase AC portable welding units. Stepless control of the welding current. Thermostatic overload protection.



<b>INCLUDED</b>	
Hammer / Brush	21905039
Welding plastic mask	21905064

	<b>UTIL 186N</b>
Input Voltage	(1ph) 230V 50/60Hz
Power 60%	4 KVA
U <sub>o</sub>	48 V
Amp. Min-Max	40 ÷ 150 A±10%
Ø Electrode	1,6 ÷ 3,25 mm
Insulation	H
Protec. Degree	IP21S
Dimens. (LxWxH)	305x440x350 mm
Box (LxWxH)	285x490x325 mm
Weight box/net	20,7 / 19,8 Kg
Price number	99200089

Single-phase AC welding units, on wheels, with cooling fan. Stepless control of the welding current. Thermostatic overload protection. Complete with welding accessories.



#### INCLUDED

Hammer / Brush	21905039
Welding plastic mask	21905064

	<b>NOVA 260N</b>
Input Voltage	(1ph) 230/400V 50/60Hz
Power 60%	4,4 KVA
U <sub>o</sub>	48 V
Amp. Min-Max	35 ÷ 190 A±10%
Ø Electrode	1,6 ÷ 4 mm
Insulation	H
Protec. Degree	IP21S
Dimens. (LxWxH)	305x540x385 mm
Box (LxWxH)	280x550x355 mm
Weight box/net	24 / 22,9 Kg
Price number	99200085

Single-phase AC welding units, on wheels, with cooling fan. Stepless control of the welding current. Thermostatic overload protection.



# SPARC RANGE



Easy-to-use welding inverter: optimum welding performance with all types of commercial electrodes (rutile, basic, stainless steel). They fit overvoltage, over temperature and anti-sticking control. As they are compact and lightweight, they are ideal for home/hobby applications.

	SPARC 146	SPARC 186	SPARC 226
Input Voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz
Power 60%	2,5 KW	2,5 KW	3,2 KW
U <sub>o</sub>	70 V	70 V	70 V
Amp. Min-Max	10 ÷ 120 A	10 ÷ 160 A	10 ÷ 200 A
Duty Cycle 40°C	120A @ 25% 80A @ 50% 60A @ 100%	160A @ 25% 100A @ 60% 80A @ 100%	200A @ 25% 130A @ 60% 100A @ 100%
Ø Electrode	1,6 ÷ 3,2 mm	1,6 ÷ 4,0 mm	1,6 ÷ 4,0 mm
Electrode type	6013 - 7018	6013 - 7018	6013 - 7018
Insulation	H	H	H
Protection degree	IP22S	IP22S	IP22S
Dimens. (LxWxH)	120x285x255 mm	120x285x255 mm	120x285x255 mm
Weight box/net	3,5 / 4,0 Kg	3,7 / 4,2 Kg	3,9 / 4,4 Kg
Power source part number	99805991	99805992	99805993
Dim. in carton box	245x385x235 mm	245x385x235 mm	245x385x235 mm
Weight in carton box	4,9 / 5,2 Kg	5,9 / 6,2 Kg	7,0 / 7,6 Kg
Kit Carton box part number	99806001	99806002	99806003
Dim. in Helvi Bag M	-	300x530x345 mm	300x530x345 mm
Weight in Helvi Bag M	-	7,4 / 8,2 Kg	7,8 / 8,6 Kg
KIT Helvi Bag M part number	-	99806012	99806013





# HELVI CONFIGURATION KIT



CARTON BOX



HELVI BAG M

SPARC 146 · CARTON BOX	
43210238	Ground cable · 10mm <sup>2</sup> · 1,6 m
43205118	Welding Cable · 10mm <sup>2</sup> · 2,4 m
21905064	Welding mask · Glass 75x98 mm
44900001	Kit glass
21905039	Hammer/brush
<b>99806001</b>	

SPARC 186 · CARTON BOX	
43210229	Ground cable · 16mm <sup>2</sup> · 2 m
43205114	Welding Cable · 16mm <sup>2</sup> · 3 m
21905064	Welding mask · Glass 75x98 mm
44900001	Kit glass
21905039	Hammer/brush
<b>99806002</b>	

SPARC 226 · CARTON BOX	
43210236	Ground cable · 16mm <sup>2</sup> · 2 m
43205114	Welding Cable · 16mm <sup>2</sup> · 3 m
21905064	Welding mask · Glass 75x98 mm
44900001	Kit glass
21905039	Hammer/brush
<b>99806003</b>	

SPARC 186 · HELVI BAG M	
43210229	Ground cable · 16mm <sup>2</sup> · 2 m
43205114	Welding Cable · 16mm <sup>2</sup> · 3 m
21905039	Hammer/brush
21905178K	Helvi Bag M · 450x220x270 mm
<b>99806012</b>	

SPARC 226 · HELVI BAG M	
43210236	Ground cable · 16mm <sup>2</sup> · 2 m
43205114	Welding Cable · 16mm <sup>2</sup> · 3 m
21905039	Hammer/brush
21905178K	Helvi Bag M · 450x220x270 mm
<b>99806013</b>	

## CONTROL PANEL



- ① Ampere adjustment scale
- ② Adjustment scale for electrode diameter
- ③ Regulation Knob
- ④ Electrodes diameter legend to facilitate the settings
- ⑤ Thermic protection LED
- ⑥ Power LED

<b>GALILEO 179</b>	
Input Voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	4,8 KW
U <sub>o</sub>	52 V
Amp. Min-Max	10 ÷ 160 A
Duty Cycle 40°C	160A @ 60% 130A @ 100%
Ø Electrode	1,6 ÷ 4 mm
Electrode type	6013 - 7018
Insulation	H
Protection degree	IP23S
Dimens. (LxWxH)	140x360x255 mm
Box (LxWxH)	175x510x290 mm
Weight box/net	6,7 / 6,2 Kg
Power source part number	99806008
Dim. in Helvi Bag M	300x530x345 mm
Weight in Helvi Bag M	10,9 / 8,3 Kg
Kit Helvi Bag M part number	99806010

Easy-to-use welding inverters: optimum welding performance with all types of commercial electrodes (rutile, basic, stainless steel). They fit overvoltage, over temperature and anti-sticking control. They are equipped with STICK/TIG (lift arc) selector. They can be connected to power sources and long connection lines. They are ideal for maintenance jobs and workshops applications.



### INCLUDED WITH HELVI BAG M KIT

Ground cable	43210170 · 25mm <sup>2</sup> · 2m
Welding cable	43205097 · 25mm <sup>2</sup> · 3m
Helvi BAG M	21905178K

### OPTIONAL · KIT CABLES 25mm<sup>2</sup>

99900278	Ground cable 43210170 · 25mm <sup>2</sup> · 2m
	Welding cable 43205097 · 25mm <sup>2</sup> · 3m



<b>GALILEO 219</b>	
Input Voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	6 KW
U <sub>o</sub>	48 V
Amp. Min-Max	10 ÷ 200 A
Duty Cycle 40°C	200A @ 60% 155A @ 100%
Ø Electrode	1,6 ÷ 5 mm
Electrode type	6013 - 7018
Insulation	H
Protection degree	IP23S
Dimens. (LxWxH)	140x360x255 mm
Box (LxWxH)	175x510x290 mm
Weight box/net	7,2 / 6,7 Kg
Power source part number	99806009
Dim. in Helvi Bag M	300x530x345 mm
Weight in Helvi Bag M	11,5 / 8,8 Kg
Kit Helvi Bag M part number	99806011

Easy-to-use welding inverters: optimum welding performance with all types of commercial electrodes (rutile, basic, stainless steel). They fit overvoltage, over temperature and anti-sticking control. They are equipped with STICK/TIG (lift arc) selector. They can be connected to power sources and long connection lines. They are ideal for maintenance jobs and workshops applications.



### INCLUDED WITH HELVI BAG M KIT

Ground cable	43210170 · 25mm <sup>2</sup> · 2m
Welding cable	43205097 · 25mm <sup>2</sup> · 3m
Helvi BAG M	21905178K

### OPTIONAL · KIT CABLES 25mm<sup>2</sup>

99900278	Ground cable 43210170 · 25mm <sup>2</sup> · 2m
	Welding cable 43205097 · 25mm <sup>2</sup> · 3m



FLEXY 160		
Input Voltage	115V · 50/60Hz	230V · 50/60Hz
Power 60%	2,7 KW	2,9 KW
U <sub>o</sub>	55 V	55 V
Amp. Min-Max	10 ÷ 120 A	10 ÷ 160 A
Duty Cycle 40°C	100A @ 30% 80A @ 60% 70A @ 100%	160A @ 25% 105A @ 60% 80A @ 100%
Ø Electrode	1,6 ÷ 3,25 mm	1,6 ÷ 4 mm
Electrode type	6013 - 7018	
Insulation	H	
Protection degree	IP22S	
Dimens. (LxWxH)	140x410x245 mm	
Box (LxWxH)	175x510x290 mm	
Weight box/net	7,2 / 6,6 Kg	
Power source part number	99805986	
Dim. Plastic case (LxWxH)	160x500x470 mm	
Weight with plastic case	11,4 / 10,6 Kg	
Plastic case kit part number	99805987	

MMA/TIG inverters technology machines designed to be powered from any input voltage between 90 to 270V. Thanks to the FLEX-LINE function, the device automatically recognizes the value of the input power supply (110V or 220V). Equipped with the PFC function, which ensures high efficiency of the units and allows to weld with high currents and low consumptions.



**INCLUDED WITH PLASTIC CASE KIT**

Ground cable	43210185 · 16mm <sup>2</sup> · 2m
Welding cable	43205098 · 16mm <sup>2</sup> · 3m
Hammer/brush	21905039
Plastic case	21690609







# TIG DC HF · TIG AC/DC WELDING

	PART NUMBER	KIT CODE	AMP MAX	INPUT VOLTAGE	MAX Ø ELECTRODE	CABLE CONNECT.	TIG DC	TIG AC
<b>GALILEO TIG 219 HF</b>	99806005	99806007	<b>200A</b>	1ph <b>230V ± 10%</b>	<b>5 mm</b>	<b>50 mm<sup>2</sup></b>	■	-
<b>COMPACT 211 EASY AC/DC PFC</b>	99806014	99806014K	<b>200A</b>	1ph <b>110/230V ± 10%</b>	<b>5 mm</b>	<b>50 mm<sup>2</sup></b>	■	■



## TIG DC HF · TIG AC/DC HF

### HF (High Frequency) ARC START

Arc strike in HF mode. The electric arc is activated remotely by the HF system. It's not required to touch the material to be welded. In this way you avoid to damage the electrode and to contaminate the welding bead.

### TIG AC/DC

In order to weld aluminum alloys we need a TIG power source able to generate an AC current. These alloys creates a layer of aluminum oxide which needs to be broken. We can obtain this results thanks to the polarity change (for a half-period the current breaks the layer of oxide and for the other half-period the current heat the piece to be welded, which allows the fusion and the welding).

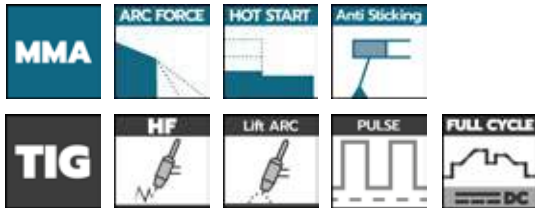
TIG AC/DC power source, other than the above mentioned functions, allows the user to set the following parameters:

- **AC FREQUENCY:** allows to narrow or to enlarge the electric arc (welding bead) changing the frequency from a maximum value to a minimum value (High frequency: narrow arc / low frequency: larger arc).
- **AC BALANCE:** allows to have more or less cleaning action and therefore to have more or less heat transfer on the piece to be welded. More balance value improve the heat transfer. Conversely a lower balance value increase the cleaning action.

**GALILEO TIG 219 HF**

<b>Input Voltage</b>	(1ph) 230V ± 10% · 50/60Hz	
	<b>TIG</b>	<b>MMA</b>
<b>Power 60%</b>	4,2 KW	5,3 KW
<b>U<sub>0</sub></b>	64 V	64 V
<b>Amp. Min-Max</b>	5 ÷ 200 A	5 ÷ 170 A
<b>Duty Cycle 40°C</b>	200A @ 25% 130A @ 60% 100A @ 100%	170A @ 25% 110A @ 60% 85A @ 100%
<b>Ø Electrode</b>	-	1,6 ÷ 4 mm
<b>Electrode type</b>	-	6013 - 7018
<b>Insulation</b>	H	
<b>Protection degree</b>	IP23S	
<b>Dimens. (LxWxH)</b>	140x400x245 mm	
<b>Box (LxWxH)</b>	175x510x290 mm	
<b>Weight box/net</b>	8,2 / 7,7 Kg	
<b>Power source part number</b>	99806005	
<b>Dimens. in Helvi Bag XL</b>	305x620x325 mm	
<b>Weight in Helvi Bag XL</b>	13,9 / 11,3 Kg	
<b>Helvi Bag XL KIT Part number</b>	99806007	

Inverter power sources designed to meet the needs of the most demanding users. Easy-to-use both in STICK welding and TIG welding with HF start. Model 219HF: all main welding parameters can be adjusted by the user: in TIG welding, 2stroke or 4stroke mode, pre-gas, up-slope time, pulsation frequency, basic current, down-slope time, crater filler current, post-gas; in STICK welding Hot Start and Arc Force are adjustable. Equipped with digital ammeter which shows welding current and preset parameters. Model 201HF is equipped with an user friendly front panel where you can select 2T/4T, Tig slope down, MMA arc force.


**INCLUDED WITH HELVI BAG XL KIT**

<b>TIG torch Ergotig 26</b>	23020157 · 50mm² · 4m · 3 pin
<b>Ground cable</b>	43210170 · 25mm² · 2m
<b>Gas Hose KIT</b>	30900030
<b>TIG Welding gloves</b>	21905133 T010 · Size 10
<b>Helvi Bag XL</b>	21905139K

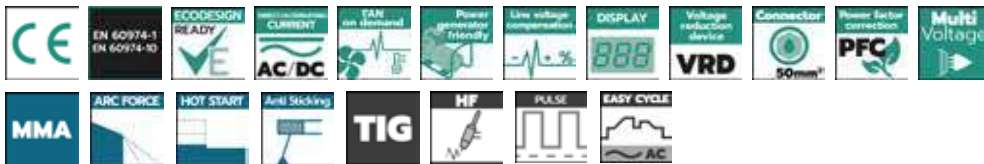




**COMPACT 211 EASY AC/DC PFC**

Input Voltage	(1ph) 110V ± 10% · 50/60Hz			(1ph) 230V ± 10% · 50/60Hz		
	TIG		MMA	TIG		MMA
	DC	AC	DC	DC	AC	DC
Power 60%	2 KW	2 KW	2,2 KW	2,3 KW	2,5 KW	4 KW
U <sub>o</sub>	45 V	45 V	45 V	45 V	45 V	45 V
Amp. Min-Max	5 ÷ 140 A	10 ÷ 140 A	5 ÷ 100 A	5 ÷ 200 A	10 ÷ 200 A	5 ÷ 170 A
Duty Cycle 40°C	140A 40%	140A 40%	100A 35%	200A 25%	200A 30%	170A 30%
	110A 60%	110A 60%	75A 60%	130A 60%	140A 60%	120A 60%
	85A 100%	85A 100%	60A 100%	100A 100%	110A 100%	90A 100%
Ø Electrode	-	-	1,6 ÷ 2,5 mm	-	-	1,6 ÷ 5 mm
Electrode type	-	-	6013 - 7018	-	-	6013 - 7018
Insulation	H					
Protect. degree	IP23					
Dimens. (LxWxH)	195x490x395 mm					
Box (LxWxH)	300x640x455 mm					
Weight net	12,0 / 11,2 Kg					
Part number	99806014					

Inverter Power generator single-phase designed for AC TIG aluminium welding and DC TIG welding for steel. Arc striking with HF or LIFT ARC mode. MMA mode also available. Thanks to the inverter technology and microprocessors, the welding process is controlled at all times, guaranteeing excellent welding dynamics and optimal arc ignition. Thanks to the FLEX-LINE function, the device automatically recognizes the value of the input power supply (110V or 220V). Equipped with the PFC function, which ensures high efficiency of the unit and allows to weld with high currents and low consumptions. The COMPACT EASY 211 AC/DC is equipped with an easy-to-use and intuitive control panel. 3 welding modes available: TIG AC, TIG DC e STICK (MMA).



**INCLUDED**

Connector	22105166 · 12 pins · Male (for TIG Torch)
<b>OPTIONAL</b>	
Tig Torch TIG 26	23020410 · 12 pin · 4m
Ground Cable	43210170K · 25mm² · 2m
Trolley	99900171A
Foot remote control	99810021

**INCLUDED WITH KIT VERSION**

Power source	99806014 · Compact 211 Easy AC/DC
TIG Torch	23020410 · Tig 26 · 4m · 50mm² · 12 pins
Ground Cable	43210170 · 25mm² · 2m · 200 Amp
Gas Hose Kit	30900030
KIT part number	99806014K

**CONTROL PANEL**



- 1 TIG AC / TIG DC / MMA Selection
- 2 Regulation knob
- 3 2T/4T selection
- 4 TIG Parameters adjustment: AC Balance · AC Frequency · Pulse
- 5 Digital Display. Before welding: shows pre-set value. During welding: shows welding current.
- 6 LED: Power · thermal protection · over current



# MULTIPROCESS INVERTER

	PART NUMBER	AMP MAX	INPUT VOLTAGE	WIRE SPOOL	GAS NO GAS	TORCH CONNECT.	WIRE FEEDER TYPE
<b>PUMA 256</b>	99820061K	<b>250A</b>	1ph <b>230V ± 10%</b>	<b>5 ÷ 15 Kg</b>	■	Euro Connection	<b>2</b> rolls metallic
<b>PUMA 278</b>	99825017K	<b>250A</b>	3ph <b>400V ± 10%</b>	<b>5 ÷ 15 Kg</b>	■	Euro Connection	<b>2</b> rolls metallic
<b>PUMA 298</b>	99825016K	<b>300A</b>	3ph <b>400V ± 10%</b>	<b>5 ÷ 15 Kg</b>	■	Euro Connection	<b>4</b> rolls metallic
<b>MINI FOX 161</b>	99820060	<b>150A</b>	1ph <b>230V ± 10%</b>	<b>1 Kg</b>	■	Direct	<b>2</b> rolls
<b>FOX 165</b>	99820050	<b>150A</b>	1ph <b>230V ± 10%</b>	<b>1 ÷ 5 Kg</b>	■	Direct	<b>2</b> rolls
<b>FOX 189</b>	99820051	<b>180A</b>	1ph <b>230V ± 10%</b>	<b>1 ÷ 5 Kg</b>	■	Euro Connection	<b>2</b> rolls metallic
<b>FOX 185</b>	99820039A	<b>170A</b>	1ph <b>115/230V</b>	<b>1 ÷ 5 Kg</b>	■	Euro Connection	<b>2</b> rolls
<b>FOX 211</b>	99820053A	<b>200A</b>	1ph <b>230V ± 10%</b>	<b>1 ÷ 5 Kg</b>	■	Euro Connection	<b>2</b> rolls metallic
<b>TP 195A</b>	99820057A	<b>180A</b>	1ph <b>230V ± 10%</b>	<b>5 ÷ 15 Kg</b>	■	Euro Connection	<b>2</b> rolls metallic
<b>TP 202</b>	99820038K	<b>170A</b>	1ph <b>230V ± 10%</b>	<b>1 ÷ 5 Kg</b>	-	Euro Connection	<b>4</b> rolls metallic



# PUMA

## MIG INVERTER RANGE



**NEW**

	PUMA 256		
Input Voltage	(1ph) 230V ± 10% · 50/60Hz		
	MIG	MMA	TIG
Power 60%	5,6 KW	5,6 KW	5,6 KW
U <sub>o</sub>	35 V	55 V	55 V
Amp. Min-Max	30 ÷ 250A	20 ÷ 200 A	10 ÷ 250 A
Duty Cycle 40°C	250A @ 30%	200A @ 35%	250A @ 30%
Steel	0,8 ÷ 1,0 Ø mm		
Stainless Steel	0,8 ÷ 1,0 Ø mm		
Aluminium	1,0 ÷ 1,2 Ø mm		
Flux Core	1,0 ÷ 1,2 Ø mm		
CuSi <sub>3</sub>	0,8 Ø mm		
Ø Electrode	1,6 ÷ 4 Ø mm		
Electrode type	6013 rutile - 7018 basic		
Insulation	H		
Protection degree	IP23		
Dimensions (LxWxH)	450x840x710 mm		
Box (LxWxH)	365x895x650 mm		
Weight	32 / 30 Kg		
Part number	99820061K		



**AVAILABLE FROM MARCH 2023**

### INCLUDED

Power Supply	99820061 · 230V (No accessories)
MIG Torch	23000425 · MIG 25 · 3m
Ground cable	43210132 · 25mm <sup>2</sup> · 3m
Pressure regulator	22905049 · mini CO <sub>2</sub> /Argon · 2 manometers
Adaptor for gas bottles	22910014



<b>PUMA 278 · MIG</b>	
Input Voltage	(3ph) 400V ± 10% · 50/60Hz
<b>MIG</b>	
Power 60%	4,8 KW
U <sub>0</sub>	35 V
Amp. Min-Max	30 ÷ 250A
Duty Cycle 40°C	250A @ 30%
Steel	0,8 ÷ 1,0 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm
Aluminium	1,0 ÷ 1,2 Ø mm
Flux Core	1,0 ÷ 1,2 Ø mm
CuSi <sub>3</sub>	0,8 Ø mm
Insulation	H
Protection degree	IP23
Dimensions (LxWxH)	450x840x710 mm
Box (LxWxH)	365x895x650 mm
Weight	32 / 30 Kg
Part number	99825017K



**AVAILABLE FROM MARCH 2023**

<b>INCLUDED</b>	
Power Supply	99825017 · 400V (No accessories)
MIG Torch	23000425 · MIG 25 · 3m
Ground cable	43210132 · 25mm <sup>2</sup> · 3m
Pressure regulator	22905049 · mini CO <sub>2</sub> /Argon · 2 manometers
Adaptor for gas bottles	22910014

<b>PUMA 298</b>			
Input Voltage	(3ph) 400V ± 10% · 50/60Hz		
	<b>MIG</b>	<b>MMA only rutile</b>	<b>TIG</b>
Power 60%	6 KW	6 KW	5,8 KW
U <sub>0</sub>	35 V	54 V	54 V
Amp. Min-Max	30 ÷ 290A	20 ÷ 250 A	10 ÷ 280 A
Duty Cycle 40°C	290A @ 35%	250A @ 35%	290A @ 35%
Steel	0,8 ÷ 1,0 Ø mm		
Stainless Steel	0,8 ÷ 1,0 Ø mm		
Aluminium	1,0 ÷ 1,2 Ø mm		
Flux Core	1,0 ÷ 1,2 Ø mm		
CuSi <sub>3</sub>	0,8 Ø mm		
Ø Electrode	1,6 ÷ 5 Ø mm		
Electrode type	6013 rutile		
Insulation	H		
Protection degree	IP23		
Dimensions (LxWxH)	450x840x710 mm		
Box (LxWxH)	365x895x650 mm		
Weight	37 / 35 Kg		
Part number	99825016K		



**AVAILABLE FROM MARCH 2023**

<b>INCLUDED</b>	
Power Supply	99825016 · 400V (No accessories)
MIG Torch	23000350 · Ergoplus 25 · 3m
Ground cable	43210142 · 35mm <sup>2</sup> · 3m
Pressure regulator	22905049 · mini CO <sub>2</sub> /Argon · 2 manometers
Adaptor for gas bottles	22910014

## OPTIONAL FOR FOX RANGE

### OPTIONAL "EASY GAS"

	<b>22905118</b>	Pressure regulator Micro 130 bar without manometer
	<b>04600404</b>	Gas bottle plastic support
	<b>21900001</b>	Disposable gas bottles CO <sub>2</sub>
	<b>21900002</b>	Disposable gas bottles Argon
	<b>21900003</b>	Disposable gas bottles Argon CO <sub>2</sub>
	<b>99900195A</b>	Trolley

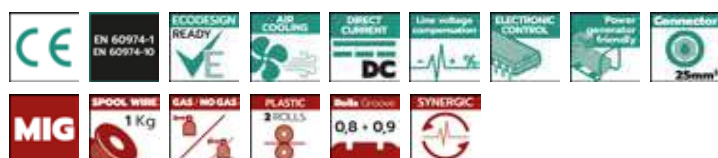
### OPTIONAL "FULL GAS"

	<b>99900258</b>
	Trolley HD AIR





mini FOX 161	
Input Voltage	(1ph) 230V ± 10% · 50/60Hz
A 60%	13,5 A
Power 60%	2 KW
Amp. Min-Max	10 ÷ 150 A
Duty Cycle 40°C	150A @ 20% 90A @ 60% 70A @ 100%
Flux Core	0,9 Ø mm
Steel	0,8 Ø mm
Insulation	H
Protection degree	IP22S
Dimensions (LxWxH)	190x370x335 mm
Box (LxWxH)	250x580x355 mm
Weight box/net	10,0 / 9,2 Kg
Part number	99820060



INCLUDED	
MIG Torch (Fixed)	23000142K · 10mm <sup>2</sup> · 2,7m
Ground cable	43210234 10mm <sup>2</sup> · 2m
Flux Core Wire spool	21910116 0,5 Kg · Ø 0,9mm
Gas Hose KIT	30900030
Hammer/Brush	21905039

FOX 165 MIG/MMA		
Input voltage	(1ph) 230V ± 10% · 50/60Hz	
Power 60%	1,9 KVA	
	MIG	MMA
U <sub>0</sub>	70 V	70 V
Amp. Min-Max	25 ÷ 150 A	20 ÷ 150 A
Duty Cycle 40°C	150A @ 25% 95A @ 60% 75A @ 100%	150A @ 20% 85A @ 60% 65A @ 100%
Flux Core	0,9 Ø mm	-
Steel	0,8 Ø mm	-
Ø Electrode	-	1,6 ÷ 3,25 Ø mm
Electrode Type	-	6013 - 7018 - CrNi
Insulation	H	
Protoc. Degree	IP22S	
Dimens. (LxWxH)	220x480x385 mm	
Box (LxWxH)	260x590x435 mm	
Weight box/net	12,0 / 10,5 Kg	
Part number	99820050	



INCLUDED	
MIG Torch	23000132 · 10mm <sup>2</sup> · 2,7m
Ground cable	43210299 16mm <sup>2</sup> · 2m
Flux Core Wire spool	21910116 0,5 Kg · Ø 0,9mm
Drive roll	33805074 Ø 25 mm · 0,6 ÷ 0,8/0,9 mm Knurled
Gas hose KIT	30900030

OPTIONAL	
Trolley	99900195A
Welding cable (MMA)	43205054K

FOX 189 MIG/MMA		
Input voltage	(1ph) 230V ± 10% · 50/60Hz	
Power 60%	2,9 KVA	2,3 KVA
	MIG	MMA
U <sub>o</sub>	70 V	70 V
Amp. Min-Max	25 ÷ 180 A	20 ÷ 180 A
Duty Cycle 40°C	180A @ 20% 105A @ 60% 75A @ 100%	180A @ 20% 105A @ 60% 75A @ 100%
Flux Core	0,9 Ø mm	-
Steel	0,6 ÷ 0,8 Ø mm	-
Aluminium	0,8 ÷ 1,0 Ø mm	-
Stainless Steel	0,8 Ø mm	-
CuSi <sub>3</sub>	0,8 Ø mm	-
Ø Electrode	-	1,6 ÷ 4,0 Ø mm
Electrode type	-	6013 - 7018 - CrNi
Insulation	H	
Protection degree	IP22S	
Dimensions (LxWxH)	220x480x385 mm	
Box (LxWxH)	260x590x435 mm	
Weight	12,5 / 10,5 Kg	
Part number	99820051	



INCLUDED	
MIG Torch	23000424 · 15 AK · 3m
Ground cable	43210229 · 16mm <sup>2</sup> · 2m
Flux Core Wire spool	21910116 · 0,5 Kg · Ø 0,9mm
Drive roll	33805023 · Ø 30 mm · 0,6÷0,8/0,9 mm
Gas hose Kit	30900030

OPTIONAL	
Trolley	99900195A
Welding cable (MMA)	43205028K

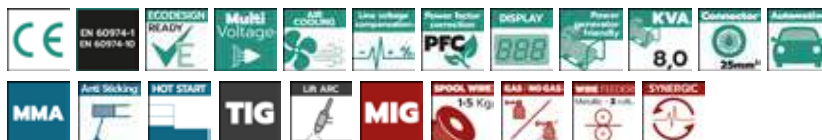


FOX 185 Flex-Line <span style="float: right; background-color: red; color: white; padding: 2px 5px; font-weight: bold;">NEW KIT</span>						
Input voltage	(1ph) 115V · 50/60Hz		(1ph) 230V · 50/60Hz			
Power 60%	1,9 KVA		2,8 KVA			
	MIG	MMA	TIG	MIG	MMA	TIG
U <sub>o</sub>	60 V	80 V	9,5 V	60 V	80 V	9,5 V
Amp. Min-Max	25 ÷ 120 A	20 ÷ 100 A	5 ÷ 110 A	25 ÷ 170 A	20 ÷ 170 A	5 ÷ 170 A
Duty Cycle 40°C	120A 40% 100A 60% 75A 100%	100A 40% 85A 60% 65A 100%	110A 40% 90A 60% 70A 100%	170A 25% 110A 60% 85A 100%	170A 25% 110A 60% 85A 100%	170A 25% 110A 60% 85A 100%
Flux Core	0,9 Ø mm					
Steel	0,6 ÷ 0,8 Ø mm					
Aluminium	0,8 ÷ 1,0 Ø mm					
Stainless Steel	0,8 Ø mm					
CuSi <sub>3</sub>	0,8 Ø mm					
Ø Electrode	1,6 ÷ 3,25 Ø mm					
Electrode type	6013 - 7018 - CrNi					
Insulation	H					
Protection degree	IP22S					
Dim. (LxWxH)	220x480x385 mm					
Box (LxWxH)	260x590x435 mm					
Weight box/net	16 / 12 Kg					
Part number	99820039A					



INCLUDED	
MIG Torch	23000491 · MIG 15 · 3m
Ground cable	43210138 16mm <sup>2</sup> · 2m
Mild steel Wire spool	21910108 · 1,0 Kg · Ø 0,8mm
Gas hose Kit	30900030
Drive roll	33805003 · Ø 30 mm · 0,6 ÷ 0,8 mm

OPTIONAL	
Trolley	99900195A
Welding Cable MMA	43205028K



FOX 211 DIGITAL			
Input voltage	(1ph) 230V ± 10% · 50/60Hz		
Power 60%	5,5 KVA		
	MIG	MMA	TIG
U <sub>o</sub>	35 V	65 V	65 V
Amp. Min-Max	20 ÷ 200 A	5 ÷ 200 A	5 ÷ 200 A
Duty Cycle 40°C	200A @ 35% 160A @ 60% 140A @ 100%	200A @ 35% 150A @ 60% 120A @ 100%	200A @ 35% 150A @ 60% 120A @ 100%
Flux Core	0,9 Ø mm	-	-
Steel	0,6 + 1,0 Ø mm	-	-
Aluminium	0,8 + 1,0 Ø mm	-	-
Stainless Steel	0,8 Ø mm	-	-
CuSi <sub>3</sub>	0,8 Ø mm	-	-
Ø Electrode	-	1,6 + 5,0 Ø mm	-
Electrode type	-	6013 - 7018 - CrNi	-
Insulation	H		
Protection degree	IP22S		
Dim. (LxWxH)	220x520x385 mm		
Box (LxWxH)	260x640x435 mm		
Weight box/net	23 / 19 Kg		
Part number	99820053A		

**NEW KIT**



INCLUDED	
MIG Torch	23000350 · ERGOPLUS 25 · 3m
Ground cable	43210132 · 25mm <sup>2</sup> · 3m
Gas hose KIT	30900030
Drive roll	33805101 · Ø 30 mm · 0,8 + 1,0 mm

OPTIONAL	
Trolley	99900195A
TIG Torch	23020154
Welding Cable MMA	43205049K



TP 195A			
Input voltage	(1ph) 230V ± 10% · 50/60Hz		
Power 60%	2,3 KVA		
	MIG	MMA	TIG
U <sub>o</sub>	70 V	70 V	70 V
Amp. Min-Max	25 ÷ 180 A	20 ÷ 180 A	5 ÷ 180 A
Duty Cycle 40°C	180A @ 20% 105A @ 60% 75A @ 100%	180A @ 20% 105A @ 60% 75A @ 100%	180A @ 20% 105A @ 60% 75A @ 100%
Flux Core	0,9 Ø mm	-	-
Steel	0,6 + 0,8 Ø mm	-	-
Aluminium	0,8 + 1,0 Ø mm	-	-
Stainless Steel	0,8 Ø mm	-	-
CuSi <sub>3</sub>	0,8 Ø mm	-	-
Ø Electrode	-	1,6 + 3,25 Ø mm	-
Electrode type	-	6013 - 7018 - CrNi	-
Insulation	H		
Protection degree	IP22S		
Dim. (LxWxH)	460x770x660 mm		
Box (LxWxH)	360x795x530 mm		
Weight box/net	37 / 33 Kg		
Part number	99820057A		

**NEW KIT**



INCLUDED	
MIG Torch	23000424 · 15 AK · 3m
Ground cable	43210138 · 16mm <sup>2</sup> · 2m

OPTIONAL	
TIG Torch	23020173 · 17V · 4m





# MULTITORCH MIG WELDING INVERTER

TP 202	
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	2,8 KVA
MIG	
U <sub>0</sub>	60 V
Amp. Min-Max	25 ÷ 170 A
Duty Cycle 40°C	170A @ 25% 110A @ 60% 85A @ 100%
Steel	0,6 ÷ 1,0 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm
Aluminium	0,6 ÷ 1,0 Ø mm
Brazing	0,8 ÷ 1,0 Ø mm
Insulation	H
Protection degree	IP22S
Dim. (LxWxH)	480x820x890 mm
Box (LxWxH)	390x950x760 mm
Weight box/net	65,8 / 61,8 Kg
Part number	99820038K



It is a single-phase inverter welding unit on wheels with PFC technology (thanks to the very high power factor, it allows an energy saving of 35%), microprocessor-controlled, suitable for MIG/MAG (manual, synergic).

It is equipped with 2 digital displays which make the adjustment very easy and intuitive. Ideal for applications in welding metal shop and body workshops and specifically for the welding of stainless steel, aluminium and zinc-coated steels. Ideal for the use with two welding torches (not at the same time), two gas cylinders (Ar/Co2 and Ar, Ø170mm max for standard bracket, two wire spools (Al and CuSi) enabling then a simple and fast use. In synergic MIG/ MAG welding, the microprocessor allows an easy adjustment and an optimal arc stability and welding quality. These generators are equipped with a user-friendly panel control.

## INCLUDED

Ground cable	43210188 · 16mm <sup>2</sup> · 3m
MIG torch for Aluminium	23000452 · MIG 15 · 3m · blue/black
MIG torch for CuSi <sub>3</sub> wire	23000490 · MIG 15 · 3m · green/black
Welding wire reel	21910075 · CuSi <sub>3</sub> · Ø 0,8 mm · 2 Kg
Welding wire reel	21910086 · AlMg <sub>5</sub> (5356) · Ø 1,0 mm · 2 Kg
Pressure regulator (x2)	22905049 · mini CO <sub>2</sub> /Argon · 2 manometers
Adaptor for gas bottles (x2)	22910014











# MIG / MAG WELDING

	PART NUMBER	AMP MAX	INPUT VOLTAGE	WIRE SPOOL	GAS NO GAS	CABLE CONNECT.	TORCH CONNECT.	WIRE FEEDER TYPE
<b>PANTHER 152</b>	99405021	<b>145A</b>	1ph <b>230V ± 10%</b>	<b>1 + 5 Kg</b>	■	Direct	Direct	<b>2 rolls</b>
<b>MONOMIG 186</b>	99400054	<b>170A</b>	1ph <b>230V ± 10%</b>	<b>5 + 15 Kg</b>	-	Direct	Euro Connection	<b>2 rolls</b>
<b>MONOMIG 196</b>	99400038	<b>180A</b>	1ph <b>230V ± 10%</b>	<b>5 + 15 Kg</b>	-	Direct	Euro Connection	<b>2 rolls</b>
<b>MONOMIG 216</b>	99400050	<b>220A</b>	1ph <b>230V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>25 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls metallic</b>
<b>MONOMIG 246</b>	99400051	<b>250A</b>	1ph <b>230V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>25 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls metallic</b>
<b>MONOMIG 286</b>	99400052	<b>280A</b>	1ph <b>230V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>25 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls metallic</b>
<b>EASYMIG 208N</b>	99410051	<b>190A</b>	3ph <b>230/400V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>25 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls</b>
<b>EASYMIG 238</b>	99410037	<b>240A</b>	3ph <b>230/400V</b>	<b>5 + 15 Kg</b>	-	<b>25 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls</b>
<b>MAXIMIG 278</b>	99410072	<b>260A</b>	3ph <b>230/400V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>25 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls metallic</b>
<b>MAXIMIG 298</b>	99410073	<b>300A</b>	3ph <b>230/400V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>50 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls metallic</b>
<b>UNIMIG 298</b>	99425062	<b>300A</b>	3ph <b>230/400V ± 10%</b>	<b>5 + 15 Kg</b>	-	<b>50 mm<sup>2</sup></b>	Euro Connection	<b>2 rolls metallic</b>

**PANTHER 152 • GAS - NO GAS**

Input voltage	(1ph) 230V ± 10% • 50/60Hz
Power 60%	2,4 KW
U <sub>0</sub>	18 ÷ 28 V
Amp. Min-Max	30 ÷ 145 A
Duty Cycle 40°C	130A @ 20% 75A @ 60% 55A @ 100%
Adjustmentpositions	4
Steel	0,6 ÷ 0,8 Ø mm
Stainless Steel	0,8 Ø mm
Aluminium	0,8 Ø mm
Flux Core (No Gas)	0,8 ÷ 1,0 Ø mm
Insulation	H
Protec. Degree	IP22S
Dimens. (LxWxH)	350x680x470 mm
Box (LxWxH)	320x565x385 mm
Weight box/net	28 / 27 Kg
Part number	99405021

Single-phase portable MIG welding units with cooling fan. Polarity can be reversed to weld using cored wire without shielding gas. Equipped with torch, earth cable, cored wire spool. Well suited to weld without shielding gas and pressure reducer. The 152 model is equipped with wheels. The reel holder accepts spools from 1 to 5 kg



**INCLUDED**

MIG Torch (fixed)	23000072 • 10mm <sup>2</sup> • 2m
Ground cable	43210108 • 10mm <sup>2</sup> • 1,8m
Flux core wire reel	21910028 • Ø 0,9mm • 0,225kg
Welding plastic mask	21905064
Glasses KIT	44900001
Drive roll	33805001 • 0,6 ÷ 0,8 mm • Knurled



**MONOMIG 186**

**MONOMIG 196**

Input voltage	(1ph) 230V ± 10% 50/60Hz	(1ph) 230V ± 10% 50/60Hz
Power 60%	3 KW	3 KW
U <sub>0</sub>	18 ÷ 34 V	23 ÷ 42 V
Amp. Min-Max	30 ÷ 170 A	30 ÷ 180 A
Duty Cycle 40°C	165A @ 15% 83A @ 60% 64A @ 100%	180A @ 15% 93A @ 60% 72A @ 100%
Adjustmentpositions	6	6
Steel	0,6 ÷ 0,8 Ø mm	0,6 ÷ 0,8 Ø mm
Stainless Steel	0,8 Ø mm	0,8 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm	0,8 ÷ 1,0 Ø mm
Insulation	H	H
Protec. Degree	IP22S	IP22S
Dimens. (LxWxH)	460x770x660 mm	460x770x660 mm
Box (LxWxH)	360x795x530 mm	360x795x530 mm
Weight box/net	54,6 / 52,5 Kg	55 / 53 Kg
Part number	99400054	99400038

Single-phase MIG welding units on wheels. Equipped with Euro connection torch, pressure regulator, gas hose, earth cable and clamp. All models are equipped with timer for spot welding. Suitable for light welding workshops. The reel holder accepts spools from 5 to 15 kg.



**INCLUDED**

	MONOMIG 186	MONOMIG 196
MIG Torch	23000440 MA 15 • 3m	23000424 15 AK • 3m
Ground cable	43210010 16mm <sup>2</sup> • 2m	43210010 16mm <sup>2</sup> • 2m
Pressure regulator	22905090 ECO mini CO <sub>2</sub>	22905049 mini CO <sub>2</sub>
Adaptor for gas bottle	22910014	22910014
Drive roll	33805023 Ø 0,6÷0,8 mm Knurled	33805023 Ø 0,6÷0,8 mm Knurled
Spool holder spacer	21690031 Ø 50 mm • H=30 mm 21690480 Ø 50 mm • H=18 mm	21690031 Ø 50 mm • H=30 mm 21690480 Ø 50 mm • H=18 mm



	MONOMIG 216	MONOMIG 246
Input voltage	(1ph) 230V ± 10% 50/60Hz	(1ph) 230V ± 10% 50/60Hz
Power 60%	4,6 KW	5,5 KW
U <sub>o</sub>	19 ÷ 34 V	18 ÷ 43 V
Amp. Min-Max	30 ÷ 220 A	30 ÷ 250 A
Duty Cycle 40°C	200A @ 20% 125A @ 60% 95A @ 100%	200A @ 35% 145A @ 60% 110A @ 100%
Adjustment positions	8	8
Steel	0,6 ÷ 1,0 Ø mm	0,6 ÷ 1,0 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm	0,8 ÷ 1,0 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm	0,8 ÷ 1,0 Ø mm
Insulation	H	H
Protec. Degree	IP22S	IP22S
Dimens. (LxWxH)	470x880x750 mm	470x880x750 mm
Box (LxWxH)	390x940x610 mm	390x940x610 mm
Weight box/net	71 / 69 Kg	77 / 73,6 Kg
Part number	99400050	99400051



### INCLUDED

	MONOMIG 216	MONOMIG 246
MIG Torch	23000424 15 AK · 3m	23000424 15 AK · 3m
Ground cable	43210167 25mm <sup>2</sup> · 3m	43210167 25mm <sup>2</sup> · 3m
Pressure regulator	22905049 mini CO <sub>2</sub>	22905049 mini CO <sub>2</sub>
Adaptor for gas bottle	22910014	22910014
Drive roll	33805003 Ø 0,6-0,8 mm	33805003 Ø 0,6-0,8 mm
Spool holder spacer	21690031 Ø 50 mm · H=30 mm	21690031 Ø 50 mm · H=30 mm
	21690480 Ø 50 mm · H=18 mm	21690480 Ø 50 mm · H=18 mm



	MONOMIG 286
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	7,4 KW
U <sub>o</sub>	18 ÷ 46 V
Amp. Min-Max	30 ÷ 280 A
Duty Cycle 40°C	250A @ 30% 180A @ 60% 140A @ 100%
Adjustment positions	8
Steel	0,6 ÷ 1,0 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm
Insulation	H
Protec. Degree	IP22S
Dimens. (LxWxH)	470x880x750 mm
Box (LxWxH)	390x940x610 mm
Weight box/net	83,5 / 80 Kg
Part number	99400052

Single-phase MIG welding units on wheels. Equipped with Euro connection torch, pressure regulator, gas hose, earth cable and clamp. All models are equipped with timer for spot welding. Suitable for light welding workshops. The reel holder accepts spools from 5 to 15 kg.



### INCLUDED

MIG Torch	23000425 · 25 AK · 3m
Ground cable	43210167 · 25mm <sup>2</sup> · 3m
Pressure regulator	22905049 · mini CO <sub>2</sub>
Adaptor for gas bottle	22910014
Drive roll	33805003 · Ø 0,6-0,8 mm
Spool holder spacer	21690031 · Ø 50 mm · H=30 mm
	21690480 · Ø 50 mm · H=18 mm





	<b>EASYMIG 208N</b>
Input voltage	(3ph) 230/400V ± 10% · 50/60Hz
Power 60%	3,5 KW
U <sub>o</sub>	16,5 ÷ 32 V
Amp. Min-Max	30 ÷ 190 A
Duty Cycle 40°C	190A @ 25% 130A @ 60% 95A @ 100%
Adjustmentpositions	7
Steel	0,6 ÷ 1,0 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm
Insulation	H
Protec. Degree	IP22S
Dimens. (LxWxH)	460x770x660 mm
Box (LxWxH)	360x795x530 mm
Weight box/net	56 / 54 Kg
Part number	99410051



Three-phase MIG welding units on wheels. Equipped with Euro connection torch, pressure regulator, gas hose, earth cable and clamp. These units are equipped with timer for spot welding. The reel holder accepts spools from 5 to 15 kg. The Easymig 208N is suitable for car body repair and welding workshops.



<b>INCLUDED</b>	
MIG Torch	23000424 · 15 AK · 3m
Ground cable	43210138 · 16mm <sup>2</sup> · 2m
Pressure regulator	22905090 · ECO mini CO <sub>2</sub>
Adaptor for gas bottle	22910014
Drive roll	33805023 · Ø 0,6÷0,8 mm Knurled
Spool holder spacer	21690031 · Ø 50 mm · H=30 mm 21690480 · Ø 50 mm · H=18 mm

	<b>EASYMIG 238</b>
Input voltage	(3ph) 230/400V ± 10% · 50/60Hz
Power 60%	5,9 KW
U <sub>o</sub>	17 ÷ 38 V
Amp. Min-Max	30 ÷ 240 A
Duty Cycle 40°C	230A @ 35% 175A @ 60% 135A @ 100%
Adjustmentpositions	7
Steel	0,6 ÷ 1,0 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm
Insulation	H
Protec. Degree	IP22S
Dimens. (LxWxH)	460x770x660 mm
Box (LxWxH)	360x795x530 mm
Weight box/net	69 / 67 Kg
Part number	99410037



Three-phase MIG welding units on wheels. Equipped with Euro connection torch, pressure regulator, gas hose, earth cable and clamp. These units are equipped with timer for spot welding. The reel holder accepts spools from 5 to 15 kg. The Easymig 238 models is suitable for car body repair and welding workshops.



<b>INCLUDED</b>	
MIG Torch	23000424 · 15 AK · 3m
Ground cable	43210167 · 25mm <sup>2</sup> · 3m
Pressure regulator	22905090 · ECO mini CO <sub>2</sub>
Adaptor for gas bottle	22910014
Drive roll	33805023 · Ø 0,6÷0,8 mm Knurled
Spool holder spacer	21690031 · Ø 50 mm · H=30 mm 21690480 · Ø 50 mm · H=18 mm

	MAXIMIG 278	MAXIMIG 298
Input voltage	(3ph) 230/400V ± 10% 50/60Hz	(3ph) 230/400V ± 10% 50/60Hz
Power 60%	6,4 KW	8,5 KW
U <sub>o</sub>	17 ÷ 43 V	18 ÷ 45 V
Amp. Min-Max	30 ÷ 250 A	30 ÷ 300 A
Duty Cycle 40°C	250A @ 30% 185A @ 60% 140A @ 100%	290A @ 35% 225A @ 60% 175A @ 100%
Adjustment positions	10	14
Steel	0,6 ÷ 1,0 Ø mm	0,6 ÷ 1,2 Ø mm
Stainless Steel	0,8 ÷ 1,0 Ø mm	0,8 ÷ 1,2 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm	0,8 ÷ 1,0 Ø mm
Insulation	H	H
Protec. Degree	IP22S	IP22S
Dimens. (LxWxH)	470x880x750 mm	470x880x750 mm
Box (LxWxH)	390x940x610 mm	390x940x610 mm
Weight box/net	76,8 / 73,4 Kg	94 / 90,6 Kg
Part number	99410072	99410073



Three-phase MIG welding units on wheels. Equipped with Euro connection torch, pressure regulator, gas hose, earth cable and clamp. These units are equipped with timer for spot welding. The reel holder accepts spools from 5 to 15 kg. The Maximig 278 and 298 models are suitable for professional and industrial use.



### INCLUDED

	MAXIMIG 278	MAXIMIG 298
MIG Torch	23000424 15 AK · 3m	23000425 25 AK · 3m
Ground cable	43210167 25mm <sup>2</sup> · 3m	43210142 35mm <sup>2</sup> · 3m
Pressure regulator	22905049 mini CO <sub>2</sub>	22905049 mini CO <sub>2</sub>
Adaptor for gas bottle	22910014	22910014
Drive roll	33805003 Ø 0,6÷0,8 mm 21690031 Ø 50 mm · H=30 mm	33805101 Ø 0,8÷1,0 mm 21690031 Ø 50 mm · H=30 mm
Spool holder spacer	21690480 Ø 50 mm · H=18 mm	21690480 Ø 50 mm · H=18 mm

	UNIMIG 298 · T2E
Input voltage	(3ph) 230/400V ± 10% · 50/60Hz
Power 60%	9,5 KW
U <sub>o</sub>	18 ÷ 45 V
Amp. Min-Max	30 ÷ 300 A
Duty Cycle 40°C	300A @ 35% 230A @ 60% 180A @ 100%
Adjustment positions	14
Steel	0,6 ÷ 1,2 Ø mm
Stainless Steel	0,8 ÷ 1,2 Ø mm
Aluminium	0,8 ÷ 1,0 Ø mm
Insulation	H
Protec. Degree	IP22S
Dimens. (LxWxH)	920x500x1240 mm
Box (LxWxH)	Power source · 940x390x610 mm Wire feeder · 675x290x485 mm
Weight box/net	121,4 / 116,8 Kg
Part number	99425062



Three-phase MIG welding unit on wheels. Equipped with Euro connection torch, pressure regulator, gas hose, earth cable and clamp, with timer for spot welding and with welding current display. Well suited for medium size industrial welding workshops. The model is supplied with a 2 rolls separate wire feed unit with 5m interconnecting cable.



### INCLUDED

MIG Torch	23000425 · 25 AK · 3m
Ground cable	43210142 · 35mm <sup>2</sup> · 3m
Interconnection cable	44890001 · 35mm <sup>2</sup> · 5m
Pressure regulator	22905094 maxi CO <sub>2</sub>
Adaptor for gas bottle	22910014
Wheels T2E (x4)	21625001
Drive roll	33805003 · Ø 0,6÷0,8 mm
Spool holder spacer	21690031 · Ø 50 mm · H=30 mm 21690480 · Ø 50 mm · H=18 mm







# PLASMA CUTTING

	PART NUMBER	AMP MAX	VOLTAGE	COMPRESSOR	MAX CUT
PC 33	99830024	30A	1ph 230V ± 10%	-	10 mm
PC 43	99830019	40A	1ph 230V ± 10%	-	15 mm
COMBI PC 302K	99830015	30A	1ph 230V	■	10 mm

	<b>PC 33</b>
<b>Plasma Torch</b>	<b>PT40</b>
<b>Input Voltage</b>	(1ph) <b>230V ± 10% · 50/60Hz</b>
<b>Power 60%</b>	<b>2,8 KVA</b>
<b>Range</b>	<b>10 ÷ 30 A</b>
<b>Cutting current</b>	<b>30A @ 30% 12A @ 100%</b>
<b>Max Cut</b>	<b>10 mm</b>
<b>Quality Cut</b>	<b>8 mm</b>
<b>Air pressure</b>	<b>4 - 5 bar</b>
<b>Air capacity</b>	<b>100 l/min</b>
<b>Insulation</b>	<b>H</b>
<b>Protection degree</b>	<b>IP22S</b>
<b>Dimensions (LxWxH)</b>	<b>155x430x320 mm</b>
<b>Box (LxWxH)</b>	<b>260x560x355 mm</b>
<b>Weight box/net</b>	<b>10,6 / 9,7 kg</b>
<b>Part number</b>	<b>99830024</b>

The Plasma, based on Inverter technology, guarantees accurate and clean plasma cut up to 13mm thickness. Easy to handle and operate, this system is suitable for cutting thin materials at high speed. The front panel is provided with clear and simple graphics for the adjustment of the cutting current and to indicate the intervention of any of the internal safety devices. Extra operator protection is provided by a special Start system. It is well suited for auto body repair shops, air conditioning systems and general plate working.



<b>INCLUDED</b>	
<b>Plasma Torch</b>	<b>23010070 · PT40 · 4m</b>
<b>Ground Cable</b>	<b>43210150 · 6mm² · 4m</b>
<b>ADDITIONAL CONSUMABLE KIT INCLUDED</b>	
<b>Contact tip</b>	<b>23015186 · Ø 0,8 mm · 20-30A</b>
<b>Contact tip</b>	<b>23015189 · Ø 0,65 mm · 10-20A</b>
<b>Electrode</b>	<b>23015187</b>



	<b>PC 43</b>
<b>Plasma Torch</b>	<b>PT40</b>
<b>Input Voltage</b>	(1ph) <b>230V ± 10% · 50/60Hz</b>
<b>Power 60%</b>	<b>3,3 KVA</b>
<b>Range</b>	<b>10 ÷ 40 A</b>
<b>Cutting current</b>	<b>40A @ 20% 25A @ 60% 20A @ 100%</b>
<b>Max Cut</b>	<b>15 mm</b>
<b>Quality Cut</b>	<b>13 25cm/min</b>
<b>Air pressure</b>	<b>4 - 5,5 bar</b>
<b>Air capacity</b>	<b>100 l/min</b>
<b>Insulation</b>	<b>H</b>
<b>Protection degree</b>	<b>IP22S</b>
<b>Dimensions (LxWxH)</b>	<b>155x430x320 mm</b>
<b>Box (LxWxH)</b>	<b>260x560x355 mm</b>
<b>Weight box/net</b>	<b>11,8 / 10,8 kg</b>
<b>Part number</b>	<b>99830019</b>

The Plasma, based on Inverter technology, guarantees accurate and clean plasma cut up to 13mm thickness. Easy to handle and operate, this system is suitable for cutting thin materials at high speed. The front panel is provided with clear and simple graphics for the adjustment of the cutting current and to indicate the intervention of any of the internal safety devices. Extra operator protection is provided by a special Start system. It is well suited for auto body repair shops, air conditioning systems and general plate working.



<b>INCLUDED</b>	
<b>Plasma Torch</b>	<b>23010070 · PT40 · 4m</b>
<b>Ground Cable</b>	<b>43210150 · 6mm² · 4m</b>
<b>ADDITIONAL CONSUMABLE KIT INCLUDED</b>	
<b>Contact tip</b>	<b>23015186 · Ø 0,8 mm · 20-30A</b>
<b>Contact tip</b>	<b>23015189 · Ø 0,65 mm · 10-20A</b>
<b>Electrode</b>	<b>23015187</b>



PC COMBI 302K		
Plasma Torch	PT40C	
Input Voltage (1ph)	(1ph) 230V ± 10% · 50/60Hz	
Power 60%	2,5/3 KVA	
	Internal compressor	External air
Range	10 ÷ 25 A	10 ÷ 30 A
Cutting current	25A @ 40% 12A @ 100%	30A @ 30% 12A @ 100%
Max Cut	8 mm	10 mm
Air pressure	-	4,5 bar
Air capacity	-	100 l/min
Insulation	H	
Protection degree	IP22S	
Dimensions (LxWxH)	200x435x395 mm	
Box (LxWxH)	290x560x400 mm	
Weight box/net	21,5 / 20 kg	
Part number	99830015	

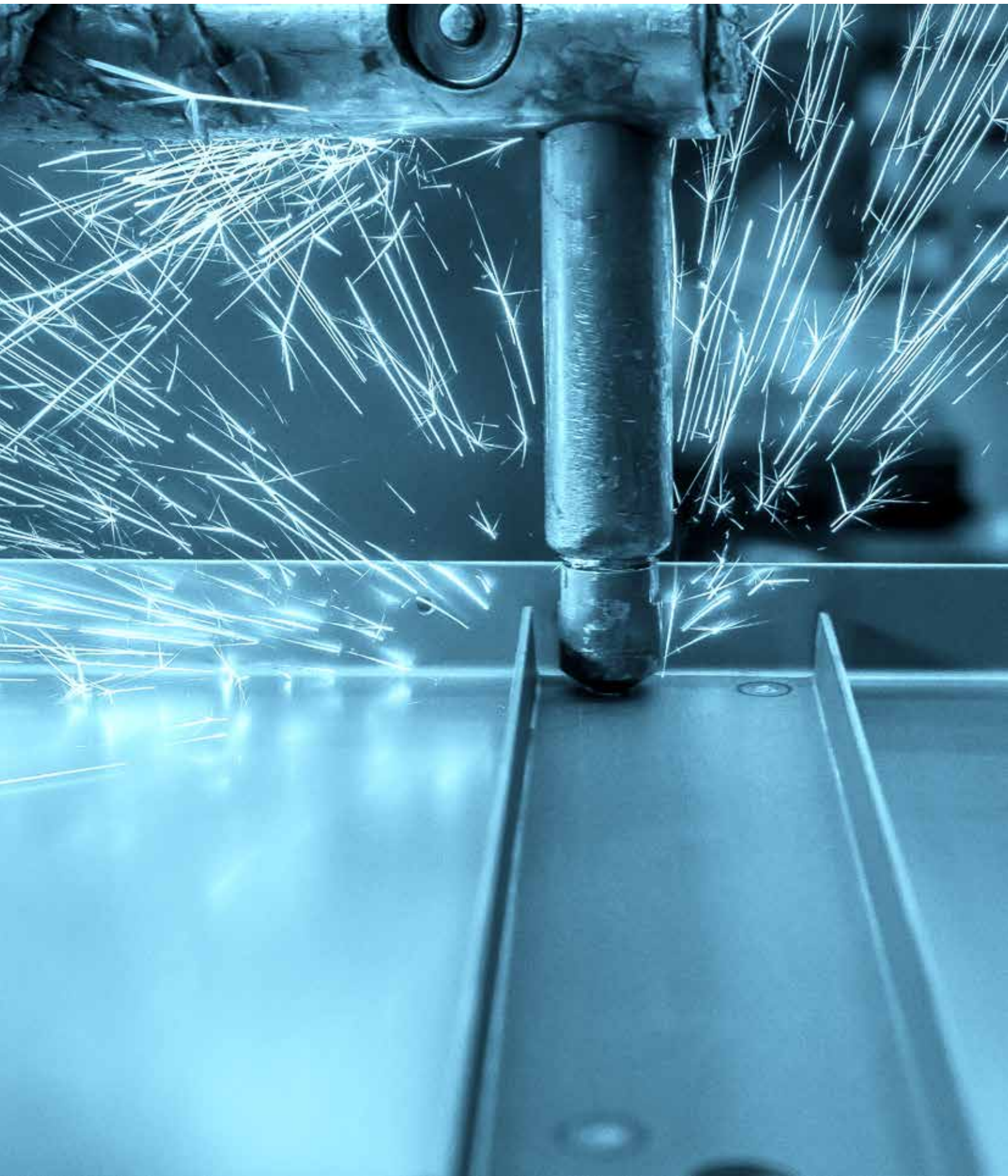
Plasma cutting systems based on inverter technology with internal compressor. Portable, single-phase, microprocessor-controlled and equipped with pneumatic torch without HF. Easily used even at some distance from a compressed air source, they produce quality cutting on all conductor materials such as steel, stainless steel, aluminium, copper, brass, etc. Suitable for lightweight and heavy bodywork, maintenance of large installations, air conditioning systems, shipyards and metalwork in general.



INCLUDED	
Plasma Torch	23010067 · PT40C · 4m
Ground Cable	43210150 · 6mm <sup>2</sup> · 4m
ADDITIONAL CONSUMABLE KIT INCLUDED	
Contact tip	23015186 · Ø 0,8 mm · 20-30A
Contact tip	23015289 · Ø 0,65 mm · 10-20A
Electrode	23015187
Nozzle	23015188 · 6 holes







# SPOT WELDING

	PART NUMBER	VOLTAGE	MATERIAL
SPOT CAR EVO 4000	99500043	1ph <b>230V ± 10%</b>	Steel
SPOT CAR EVO 5000	99500044	1ph <b>400V ± 10%</b>	Steel
SPOT CAR ALU 33	99500039	1ph <b>230V ± 10%</b>	Aluminium / Steel
SPOT CAR ALU 66	99500040	1ph <b>230V ± 10%</b>	Aluminium / Steel
SPOTWELD 21	99500030	1ph <b>230V ± 10%</b>	Steel
SPOTWELD 22E	99500022	1ph <b>230V ± 10%</b>	Steel

<b>SPOT CAR EVO 4000</b>	
<b>Input voltage</b>	(1ph) 230V ± 10% · 50/60Hz
<b>Power 50%</b>	2,5 KVA
<b>Max peak power</b>	13 KVA
<b>Delayed fuse</b>	T16 A
<b>U<sub>o</sub></b>	8 V
<b>Amp. Out</b>	2850 (2%) A
<b>Amp. Out Max</b>	3200 A
<b>Insulation</b>	H
<b>Protect. degree</b>	IP22S
<b>Dimens. (LxWxH)</b>	250x370x280 mm
<b>Box (LxWxH)</b>	290x490x365 mm
<b>Weight box/net</b>	23,8 / 23,3 kg
<b>Part number</b>	99500043



<b>INCLUDED</b>	
<b>Ground cable</b>	99920108 · 50mm <sup>2</sup> · 2,2m
<b>Fast ground</b>	99920122 · 16mm <sup>2</sup> · 2m
<b>Spot Gun</b>	99920218 · 50mm <sup>2</sup> · 2m · 3 pin
<b>Accessories box</b>	99920525

<b>OPTIONAL</b>	
<b>Trolley</b>	99900194A



<b>SPOT CAR EVO 5000</b>	
<b>Input voltage</b>	(1ph) 400V ± 10% · 50/60Hz
<b>Power 50%</b>	6 KVA
<b>Max peak power</b>	13 KVA
<b>Delayed fuse</b>	T20 A
<b>U<sub>o</sub></b>	7,5 V
<b>Amp. Out</b>	3600 (3,5%) A
<b>Amp. Out Max</b>	5000 A
<b>Insulation</b>	H
<b>Protect. degree</b>	IP22S
<b>Dimens. (LxWxH)</b>	250x370x280 mm
<b>Box (LxWxH)</b>	290x490x365 mm
<b>Weight box/net</b>	31,6 / 30,6 kg
<b>Part number</b>	99500044



<b>INCLUDED</b>	
<b>Ground cable</b>	99920216 · 70mm <sup>2</sup> · 2,2m
<b>Fast ground</b>	99920122 · 16mm <sup>2</sup> · 2m
<b>Spot Gun</b>	99920223 · 70mm <sup>2</sup> · 2m · 3 pin
<b>Accessories box</b>	99920525

<b>Trolley</b>	99900194A
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Multifunction Spotter ideal for quick works on car body, controller by microprocessor easy and fast setting through synergic programs for welding washers, rivets, wavy wires, heating and squeezing function included. Automatic start contact system or manual. Possibility to set the automatic spot welding time. Supplied with gun, hearth cable, Kit accessories included: Hammer, 10 pieces three point washers kit, cylindrical head for three point washers, carbon electrode, squeezing electrode



	SPOT CAR ALU 33	SPOT CAR ALU 66
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Fuse	T10 A	T10 A
V <sub>o</sub>	12 V	12 V
C	33000 µF	66000 µF
E	650 Joule max	1500 Joule max
T <sub>s</sub>	1 ms	1,5 ms
Alu studs Ø	3 - 6 mm	3 - 8 mm
Dimens. (LxWxH)	250x370x280 mm	250x370x280 mm
Box (LxWxH)	290x560x400 mm	290x560x400 mm
Weight box/net	16,2 / 15,1 kg	19,0 / 17,9 kg
Part number	99500039	99500040



**INCLUDED**

Fast Gun + Ground cable	99920500 · 3m · 3 pins
Accessories box	99920134

**OPTIONAL**

Trolley	99900194A
Pull System	99920141



	SPOTWELD 21	SPOTWELD 22E
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Delayed Fuse	16 A	25 A
Power 50%	1,2 KW	2,3 KW
Spot current	3800 (1,5%) Max A	6300 (1,5%) Max A
Max.	1 + 1 / Ø 6 + 6 mm	2 + 2 / Ø 6 + 6 mm
Spots/Thickness	300 / 1 + 1 N°/mm	300 / 1 + 1 N°/mm
U <sub>o</sub> Max.	2 V	2,5 V
Power Max.	6 KW	13 KW
Dimens. (LxWxH)	100x440x185 mm	100x440x185 mm
Box (LxWxH)	165x455x340 mm	165x455x340 mm
Weight box/net	11 / 10,6 kg	11,4 / 11,1 kg
Part number	99500030	99500022

Portable spot-welders which can be directly connected to a grounded power outlet. Designed to be used in demanding applications, the SPOT-WELD is available in two versions: in the first model, spot-welding time is manually controlled by the operator, whereas the second version has electronic time control. The high level of transformer insulation safeguards the operator. Simplicity and low operating costs are the strong points of the SPOT-WELD range. Not suitable for intensive use.





# **SAFETY**

# SAFETY

## WELDING MASKS

	PART NUMBER	DESCRIPTION	OPTIC CLASS
4 SENSORS <b>STORM VISION 4.1</b>	21905151	Welding mask with respirator · 4 Sensors · <b>TRUE COLOR</b>	1 / 1 / 1 / 1
4 SENSORS <b>VISION 4.1</b>	21905147	Welding mask · 4 Sensors · <b>TRUE COLOR</b>	1 / 1 / 1 / 1
4 SENSORS <b>SKY 4.0</b>	21905179	Welding mask · 4 Sensors · <b>TRUE COLOR</b>	1 / 1 / 1 / 2
2 SENSORS <b>VISION 2.1</b>	21905100A	Welding mask · 2 Sensors · <b>TRUE COLOR</b>	1 / 1 / 1 / 2
2 SENSORS <b>SKY 2.0</b>	21905125	Welding mask · 2 Sensors	1 / 1 / 1 / 2
<b>MIRAGE</b>	21905182	Welding mask · DIN 11	-
<b>HELMET BAG</b>	21905181	Practical bag for welding masks	-

## WELDING CLOTHING

	PART NUMBER	DESCRIPTION	AVAILABLE SIZES (European)
<b>JACKET</b>	21905135	Welding Jacket	48 - 50 - 52 - 54 - 56
<b>THROUSERS</b>	21905136	Welding Throusers	48 - 50 - 52 - 54 - 56
<b>TIG GLOVES</b>	21905133	Professional welding gloves	09 - 10
<b>MIG/MMA GLOVES</b>	21905134	Professional welding gloves	10 - 11
<b>SPLIT LEATHER GLOVES</b> For welding	21905177	Professional welding gloves	One-Size-Fits-All
<b>WELDING SHOES</b>	21905149	Welding Shoes	39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47
<b>APRON</b> For welding	21905176	Welding Apron	One-Size-Fits-All

## FUME EXTRACTORS

	PART NUMBER	HOSE TYPE	Ø HOSE	HOSE LENGTH	FILTRATION EFFICIENCY	NOISE LEVEL
<b>PFE</b>	<b>99900230</b>	Flexible	<b>55</b> mm	<b>2000</b> mm	<b>99 %</b>	<b>72</b> dBA
<b>MFE + ARMOTECH</b>	<b>99900235</b>	Rigid	<b>160</b> mm	<b>3000</b> mm	<b>99 %</b>	<b>74</b> dBA
<b>MFE + ARMOFLEX</b>	<b>99900231</b>	Flexible	<b>160</b> mm	<b>3000</b> mm	<b>99 %</b>	<b>74</b> dBA
<b>MFE HD + ARMOTECH</b>	<b>99900232</b>	Rigid	<b>160</b> mm	<b>3000</b> mm	<b>99,5 %</b>	<b>&lt;= 70</b> dBA
<b>MFE HD + ARMOFLEX</b>	<b>99900233</b>	Flexible	<b>160</b> mm	<b>3000</b> mm	<b>99,5 %</b>	<b>&lt;= 70</b> dBA





**4 SENSORS · STORM VISION 4.1**

**21905151**



**Additional filter for INOX welding**



Optical Class **1/1/1/1**  
 Filter size **133 x 114 x 9 mm**  
 Viewing area **97 x 62 mm**  
**4 Sensors**  
 Light Shade **3.5**  
 Darkness Shade **5 - 8 / 9 - 13** variable  
 Grinding **YES DIN 4** Fixed  
 Protection Adjustment **Internal**, variable shade  
 UV/IR Protection up to **DIN 16**  
 Switching time from Light to Dark **1/25000s**  
 Switching time from Dark to Light **0.05 - 1.0s**  
 Sensitivity/Delay **adjustable** by digital control (**10 levels**)  
 Power Supply **Solar cells + 2 x CR2450 Lithium batteries**  
 ON/OFF: manual ON - Automatic OFF  
 Low Battery alarm **YES**, red pilot lamp  
 Min Amp/TIG Rating  $\geq$  **2A AC - DC**  
 True Color filter **YES**



**RESPIRATOR TECHNICAL DATA**

**2** air flow levels: **170 lpm** and **210 lpm**  
 Filter efficiency: **99,97%** · Battery life: **9 h (170 lpm)**  
 Recharge time: **1 h** · Weight: **1kg** · Approval: **EN12941- TH2t**

<b>EXTERNAL GLASS</b>	<b>21905076</b>	133 x 114 x 1 mm
<b>INTERNAL GLASS</b>	<b>21905079</b>	96,9 x 65,7 x 1 mm
<b>EXTRA ACCESSORIES</b>		
<b>STANDARD BATTERY</b>	<b>21905155</b>	-
<b>EXTENDED BATTERY</b>	<b>21905156</b>	-
<b>EXTERNAL PROTECTION</b>	<b>21905159</b>	-
<b>FILTER PROTECTION</b>	<b>21905158</b>	-
<b>PARTICULATE FILTER</b>	<b>21905157</b>	-
<b>GAS FILTER</b>	<b>21905161</b>	-

**4 SENSORS · VISION 4.1****21905147**

**TRUE**  
COLORS

Optical Class **1/1/1/1**  
 Filter size **133 x 114 x 9 mm**  
 Viewing area **97 x 62 mm**  
**4 Sensors**  
 Light Shade **3.5**  
 Darkness Shade **5 - 8 / 9 - 13** variable  
 Grinding **YES DIN 4** Fixed  
 Protection Adjustment **Internal**, variable shade  
 UV/IR Protection up to **DIN 16**  
 Switching time from Light to Dark **1/25000s**  
 Switching time from Dark to Light **0.05 - 1.0s**  
 Sensitivity/Delay **adjustable** by digital control (**10 levels**)  
 Power Supply **Solar cells + 2 x CR2450 Lithium batteries**  
 ON/OFF: manual ON - Automatic OFF  
 Low Battery alarm **YES**, red pilot lamp  
 Min Amp/TIG Rating  $\geq$  **2A AC - DC**  
 True Color filter **YES**

<b>EXTERNAL GLASS</b>	<b>21905076</b>	133 x 114 x 1 mm
<b>INTERNAL GLASS</b>	<b>21905079</b>	96,9 x 65,7 x 1 mm

**4 SENSORS · SKY 4.0****21905179**

**TRUE**  
COLORS

Optical Class **1/1/1/2**  
 Filter size **110 x 90 x 9 mm**  
 Viewing area **100 x 53 mm**  
**4 Sensors**  
 Light Shade **4**  
 Darkness Shade **5 - 8 / 9 - 13** variable  
 Grinding **YES DIN 4** Fixed  
 Protection Adjustment **External**, variable shade  
 UV/IR Protection up to **DIN 16**  
 Switching time from Light to Dark **1/25000s**  
 Switching time from Dark to Light **0.1 - 1.0s**  
 Sensitivity/Delay **adjustable** by infinite knob  
 Power Supply **Solar cells + 1 x CR2032 Lithium battery**  
 ON/OFF Automatic  
 Low Battery alarm **YES**, red pilot lamp  
 Min Amp/TIG Rating  $\geq$  **5A AC - DC**  
 True Color filter **YES**

<b>EXTERNAL GLASS</b>	<b>21905168</b>	120 x 104 x 1 mm
<b>INTERNAL GLASS</b>	<b>21905169</b>	105,6 x 58 x 0,8 mm


**2 SENSORS · VISION 2.1**
**21905100A**


Optical Class **1/1/1/2**  
 Filter size **110 x 90 x 9 mm**  
 Viewing area **98 x 44 mm**  
**2 Sensors**  
 Light Shade **3.5**  
 Darkness Shade **9 - 13**  
 Grinding **YES**  
 Protection Adjustment **Internal**, variable shade  
 UV/IR Protection up to **DIN 16**  
 Switching time from Light to Dark **1/16000s**  
 Switching time from Dark to Light **0.1 - 1.0s**  
 Sensitivity/Delay **adjustable** by infinite knob  
 Power Supply **Solar cells** and **2 Alkaline AAA batteries**  
 ON/OFF Automatic  
 Low Battery alarm **YES**, red pilot lamp  
 Min Amp/TIG Rating  $\geq$  **5A AC - DC**  
 True Color filter **YES**

<b>EXTERNAL GLASS</b>	<b>21905077</b>	114 x 100 x 1,5 mm
<b>INTERNAL GLASS</b>	<b>21905078</b>	95,9 x 47,2 x 1 mm

**2 SENSORS · SKY 2.0**
**21905125**


Optical Class **1/1/1/2**  
 Filter size **110 x 90 x 9 mm**  
 Viewing area **98 x 42 mm**  
**2 Sensors**  
 Light Shade **4**  
 Darkness Shade **9 - 13**  
 Grinding **YES**  
 Protection Adjustment **External**, variable shade  
 UV/IR Protection up to **DIN 16**  
 Switching time from Light to Dark **1/25000s**  
 Switching time from Dark to Light **0.1 - 1.0s**  
 Sensitivity/Delay **adjustable** by infinite knob  
 Power Supply **Solar cells** and **1 CR2032 batteries**  
 ON/OFF Automatic  
 Low Battery alarm **YES**, red pilot lamp  
 Min Amp/TIG Rating  $\geq$  **10A AC - DC**  
 True Color filter **NO**

<b>EXTERNAL GLASS</b>	<b>21905128</b>	117 x 104 mm	<b>3,90 €</b>
<b>INTERNAL GLASS</b>	<b>21905129</b>	101 x 49 mm	<b>3,20 €</b>



**MANUAL CONTROL · MIRAGE****21905182**

Filter size **110 x 90 x 5 mm**  
 Viewing area **110 x 90 mm**  
 Darkness Shade **DIN11**  
 Grinding **YES**  
 UV/IR Protection up to **DIN 16**

**EXTERNAL GLASS****21905184**

110,5 x 93 x 1 mm

**INTERNAL GLASS****21905183**

1110 x 90 x 5 mm · DIN 11

**HELMET BAG****21905181**



1 2

Protective clothing against heat risks designed specifically for welding.

Made of 100% cotton with permanent treatment PROBAN® flame retardant.

**Materials:** 100% cotton, weight 340 g/m<sup>2</sup>, FL PROBAN® permanent treatment

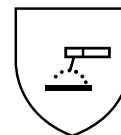
Performance was checked after 50 cycles of washing and are still certified the same.

PROBAN® is a technological process of controlled quality which provides fabrics with flame retardant properties suitable for long term use.

PROBAN® fabrics resist regeneration / recycling and dry cleaning processes. Protection against heat risks in different work environments is guaranteed for a long time.



EN ISO 11612  
A1 A2 B1 C1 F1



EN ISO 11611  
class 1

1 WELDING JACKET



AVAILABLE SIZES					
48	50	52	54	56	•
M	M/L	L	XL	XXL	
21905135					

2 WELDING TROUSERS



AVAILABLE SIZES					
48	50	52	54	56	•
M	M/L	L	XL	XXL	
21905136					



### 3 WELDING GLOVES

#### FOR TIG WELDING



EN: 388:2016



3122

EN: 407:2004



433X2X

#### AVAILABLE SIZES

09 · 10

21905133

#### FOR MIG/MMA WELDING



EN: 388:2016



3122

EN: 407:2004



433X2X

#### AVAILABLE SIZES

10 · 11

21905134

#### SPLIT LEATHER FOR WELDING



EN: 388:2016



3222

EN: 407:2004



413X4X

#### AVAILABLE SIZES

ONE SIZE FITS ALL

21905177

### 4 WELDING SHOES



Protection class: S3 HRO SCR  
CE EN ISO 20345:2011

#### AVAILABLE SIZES

39 40 41 42 43 44 45 46 47

21905149

### 5 WELDING APRON



EN: 388:2016



3222

EN: 407:2004



413X4X

EN ISO 11611:2015



Class 2 A1



#### AVAILABLE SIZES

ONE SIZE FITS ALL

21905176





PFE · Portable Fume Extractor	
Input Voltage	(1ph) 230V 50Hz
Hose	Flexible
Hose Ø	55 mm
Hose length	2000 mm
Motor Power	1,1 KW
Airflow	250 m³/h
Extraction capacity	110 m³/h
Filter type	<b>3 Stage Filter</b> (Antispark filter + Cartridge filter + Active Carbon Filter)
Filtration efficiency	99%
Noise level	72 dBA
Dimens. (LxWxH)	520x255x470 mm (without arm)
Box (LxWxH)	800x600x4 50 mm
Weight box/net	23/20 Kg
Part number	99900230



### PORTABLE PURIFICATION SYSTEM FOR WELDING FUMES SUITABLE FOR DIRECT CONNECTION TO TORCH.

**MAIN FEATURES** · Welding fume extraction with medium-low concentrations of pollutants in closed environments or confined spaces being difficult to reach with normal fume abatement systems. 220/1/50 single-phase extraction fan with brushed motor controlled by a control panel with electric motor protection, indicator lights for function signaling and an electronic flow regulator. This air cleaner combines ease of management with a significant reduction in maintenance costs. **STRUCTURE** · The metal external structure, in painted steel of adequate thickness, makes the air cleaner resistant to accidental impact and is extremely light during use. It is also equipped with a practical handle to facilitate transport. The structure also allows the insertion of a second outlet tube (T19 Ø 55 mm). Flexible hose equipped with a plastic suction nozzle with magnetic support that allows secure fixing in any position on the metal parts of the unit. **FILTERING SECTION** · Composed of a metallic antispark pre-filter, a pre-treated paper filter and an activated carbon filter. **LIMITS OF USE** · The portable air cleaner has been designed exclusively for the extraction of fumes generated by non-oily welding processes and, above all, for an intermittent use. Other substances, such as dust or liquids, are not suitable for being captured / filtered and could generate malfunctions during the ordinary use of the equipment and also compromise the degree of filtration of the relevant filters. It can not be used in explosive environments.

### FILTERING SECTION



1. ANTI-SPARKS METALLIC FILTER
2. FILTER CARTRIDGE - Efficiency 99%
3. CARBON FILTER

1	99900242	Dim.: 240x337x12 mm
2	99900243	Dim.: Ø 195mm · L=28 mm
3	99900244	Dim.: 240x292 mm

MFE · Mobile Fume Extractor	
Input Voltage	(1ph) 230V 50Hz
Hose	Rigid - ARMOTECH 160/3
Hose Ø	160 mm
Hose length	3000 mm
Motor Power	1,1 KW
Airflow	2500 m³/h
Extraction capacity	1400 m³/h
Filter type	HEPA Filter (Light-Medium Duty Cycle)
Filtration efficiency	99%
Noise level	74 dBA
Dimens. (LxWxH)	1100x523x830 mm (without arm)
Box (LxWxH)	1560x550x1200 mm
Weight box/net	115/85 Kg
Part number	99900235

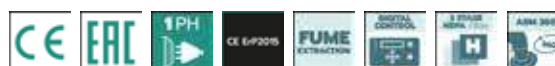
### PROFESSIONAL MOBILE AIR CLEANER WITH ARTICULATED ARM AND HEPA FILTER (FOR LIGHT-MEDIUM DUTY CYCLES)

**MAIN FEATURES** · Welding fume extraction with medium-low concentrations of pollutants in closed environments or confined spaces being difficult to reach with normal fume extraction systems. 220/1/50 single-phase extraction fan with brushed motor. Now fitted with a brand new digital control panel which provide all functioning info to the user and signals any malfunction and filter clogging. **STRUCTURE** · Made of powder-coated steel sheet, complete with pivoting castors and handles. High efficiency centrifugal electric fan placed downstream of the filtering section in a special sound-proof housing. 3 meters articulated arm (Ø 160 mm) with rigid pipe, complete with extractor hood equipped with multi-directional damper and joint. **FILTERING SECTION** · Composed of a series of metallic and acrylic filters, for a final filtration efficiency in class H12, according to the EN 779 Standard.



Fume Extractor  
also available with  
**ARMOFLEX 160/3**

part number  
**99900231**





<b>MFE HD · Mobile Fume Extractor HEAVY DUTY</b>	
<b>Input Voltage</b>	(1ph) 230V 50Hz
<b>Hose</b>	<b>Rigid - ARMOTECH 160/3</b>
<b>Hose Ø</b>	160 mm
<b>Hose length</b>	3000 mm
<b>Motor Power</b>	1,1 KW
<b>Airflow</b>	2500 m³/h
<b>Extraction capacity</b>	1480 m³/h
<b>Filter Type</b>	HEPA Filter (Light-Medium Duty Cycle)
<b>Filtration efficiency</b>	99.5%
<b>Noise level</b>	<= 70 dBA
<b>Dimens. (LxWxH)</b>	600x800x1200 mm (without arm)
<b>Box (LxWxH)</b>	1200x1050x800 mm
<b>Weight box/net</b>	130/105 Kg
<b>Part number</b>	99900232



**PROFESSIONAL AIR CLEANER, WITH ARMOTECH OR ARMOFLEX ARM AND WITH HEPA FILTER**

**MAIN FEATURES** · Welding fume extraction with medium-low concentrations of pollutants in closed environments or facilities being difficult to reach with normal fume extraction systems. **STRUCTURE** · 3 meters articulated arm (Ø 160mm) with rigid pipe, complete with extractor hood equipped with multi-directional damper and joint. Made of powder-coated steel sheet, complete with pivoting custorsandbridge handles. Now fitted with a brand new digital control panel which provide all functioning info to the user and signals any malfunction and filter clogging. High efficiency centrifugal electric fan placed downstream the filtering section in a special sound-proof housing. **FILTERING SECTION** · Composed of a series of metallic and acrylic filters, for a final filtration efficiency in class H13, according to the EN 779 Standard.

<b>Fume Extractor also available with ARMOFLEX 160/3</b>	<b>part number</b>
	<b>99900233</b>

OPTIONAL

**FILTERING SECTION**



- 1 METALLIC FILTER CELL**  
Material: Aluminium fiber  
Regeneration: Yes, whasable
- 2 CORRUGATED FILTER CELL**  
Material: Polyester fiber  
Regeneration: by shaking
- 3 RIGID HEPA GLASS MICROFIBER POCKET FILTER**  
Material: Glass fiber EU12  
Regeneration: NO (needs replacement)

<b>MFE</b>		
<b>1</b>	99900236	Dimensions: 485x485x12 mm
<b>2</b>	99900237	Dimensions: 490x592x48 mm
<b>3</b>	99900238	Dimensions: 490x592x592 mm

<b>MFE HD</b>		
<b>1</b>	99900239	Dimensions: 485x592x12 mm
<b>2</b>	99900240	Dimensions: 490x592x98 mm
<b>3</b>	99900238	Dimensions: 490x592x592 mm

<b>OPTIONAL</b>	
99900241	<b>CARBON FILTER (Couple)</b> Dimensions: 292x648x48 mm







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## GENERAL ACCESSORIES

### BLISTER

	<b>21915002B5</b>	Electrode Blister • <b>Rutile</b> • <b>2,0</b> mm • <b>30</b> pcs/blister • sold in carton box of <b>5 blister</b>	
	<b>21915003B5</b>	Electrode Blister • <b>Rutile</b> • <b>2,5</b> mm • <b>20</b> pcs/blister • sold in carton box of <b>5 blister</b>	
	<b>21915006B5</b>	Electrode Blister • <b>Rutile</b> • <b>3,25</b> mm • <b>15</b> pcs/blister • sold in carton box of <b>5 blister</b>	
	<b>21910109B5</b>	Wire Reel Blister • <b>Flux core</b> • $\varnothing$ <b>0,9</b> mm • <b>1,0</b> Kg • sold in carton box of <b>5 blister</b>	
	<b>21910107B5</b>	Wire Reel Blister • <b>Mild Steel SG2</b> • $\varnothing$ <b>0,6</b> mm • <b>1,0</b> Kg • sold in carton box of <b>5 blister</b>	
	<b>21910108B5</b>	Wire Reel Blister • <b>Mild Steel SG2</b> • $\varnothing$ <b>0,8</b> mm • <b>1,0</b> Kg • sold in carton box of <b>5 blister</b>	
	<b>21910047B5</b>	Wire Reel Blister • <b>AlMg5 5356</b> • $\varnothing$ <b>0,8</b> mm • <b>0,5</b> Kg • sold in carton box of <b>5 blister</b>	
	<b>21910088B5</b>	Wire Reel Blister • <b>AISI5 4043</b> • $\varnothing$ <b>0,8</b> mm • <b>0,5</b> Kg • sold in carton box of <b>5 blister</b>	
	<b>21910089B5</b>	Wire Reel Blister • <b>AISI5 4043</b> • $\varnothing$ <b>1,0</b> mm • <b>0,5</b> Kg • sold in carton box of <b>5 blister</b>	
	<b>21910111B5</b>	Wire Reel Blister • <b>Stainless Steel 308L Si</b> • $\varnothing$ <b>0,8</b> mm • <b>0,5</b> Kg sold in carton box of <b>5 blister</b>	
	<b>21910056B5</b>	Wire Reel Blister • <b>CuSi3</b> • $\varnothing$ <b>0,8</b> mm • <b>0,9</b> Kg • sold in carton box of <b>5 blister</b>	

## GENERAL ACCESSORIES



### MAGNETIC HOLDERS

	21905123	Arrow magnetic holder · 22 Kg	
	21905124	Arrow magnetic holder · 34 Kg	
	21905140	Magnetic holder with ON/OFF function · 40 Kg	
	21905141	Adjustable magnetic holder · 12 Kg	
	21905142	Adjustable magnetic holder · 15 Kg	
	21905173	Magnetic MIG torch holder · BLUE	
	21905174	Magnetic TIG torch holder · YELLOW	
	21905175	Magnetic MMA torch holder · RED	





**GENERAL ACCESSORIES**

**HELVI BAGS**

	<p><b>21905178K</b></p>	<p>HELVI Bag Medium · M Dim. 450x220x270 mm</p>	<p>Sparc Range Galielo Range Flexy Range</p>	
	<p><b>21905139K</b></p>	<p>HELVI Bag Extra Large · XL Dim. 540x225x250 mm</p>	<p>Galielo 219HF</p>	

**WELDING STATION / PRODUCT DISPLAY**

	<p><b>99900193</b></p>	<p>Welding Station</p>	
	<p><b>99900181K</b></p>	<p>Product Display</p>	

# TROLLEYS

## TROLLEYS CONFIGURATION

	AUTOSTAR 300	AUTOSTAR 500	EXPLORER 120	COMPACT 211 <small>Easy AC/DC</small>	FOX 165	FOX 185	FOX 189	FOX 211	SPOTCAR 4000	SPOTCAR 5000	SPOTCAR ALU 33	SPOTCAR ALU 66
TROLLEY 1	•	•							•	•	•	•
TROLLEY 2 · EXPLORER			•									
TROLLEY 3				•								
TROLLEY 4					•	•	•	•				
TROLLEY 5 · HD AIR				•	•	•	•	•				

TROLLEY 1		TROLLEY 2 · EXPLORER		TROLLEY 3		TROLLEY 4	
Dimensions (LxWxH)	470 x 520 x 770 mm	Dimensions (LxWxH)	470 x 520 x 790 mm	Dimensions (LxWxH)	520 x 450 x 1060 mm	Dimensions (LxWxH)	520 x 450 x 1060 mm
Box	490 x 220 x 795 mm	Box	490 x 220 x 795 mm	Box	1065 x 300 x 365 mm	Box	1085 x 380 x 365 mm
Part number	<b>99900194A</b>	Part number	<b>99900260K</b>	Part number	<b>99900171A</b>	Part number	<b>99900195A</b>

Not suitable for cooler units



TROLLEY 5 · HD AIR	
Dimensions (LxWxH)	950 x 435 x 975 mm
Box	1065 x 300 x 365 mm
Part number	<b>99900258</b>

## BATTERY CHARGERS AND STARTERS ACCESSORIES

	<b>22220044</b>	Fuse • <b>80 A</b> • (min 5 pcs)	Speedy 150	
	<b>22220047</b>	Fuse • <b>100 A</b> • (min 5 pcs)	Speedy 250	
	<b>22220048</b>	Fuse • <b>120 A</b> • (min 5 pcs)	Rapid 280 · 380	
	<b>22220031</b>	Fuse • <b>75 A</b> • (min 5 pcs)	Speedy 430	
	<b>22220030</b>	Fuse • <b>100 A</b> • (min 5 pcs)	Rapid 480 · Autostar 500 (x2)	
	<b>22220029</b>	Fuse • <b>120 A</b> • (min 5 pcs)	Autostar 300 · Sprint Car 341 Digicar 450E	
	<b>22220008</b>	Fuse • <b>200 A</b> • (min 5 pcs)	Sprint Car 441 · 540 Digicar 540E - 750E	
	<b>22220011</b>	Fuse • <b>300 A</b> • (min 5 pcs)	Sprint car 640 · Autostar 701 Digicar 1100E	
	<b>22220067</b>	Fuse • <b>400 A</b> • (min 5 pcs)	Autostar 1001 · Autostar 2000 (x2)	
	<b>22220013</b>	Fuse • <b>500 A</b> • (min 5 pcs)	Autostar 1300	
	<b>99090032</b>	Fuse • <b>500 A</b> • 55 mm	Boosty Range	
	<b>04600065</b>	Clamps for battery chargers (red + black) • KIT <b>40 A</b>	Artik 15 - 22 · Progress 14 - 17 - 20 Automatic 15	
	<b>04600066</b>	Clamps for battery chargers (red + black) • KIT <b>60 A</b>	Automatic 18 - 30 · Speedy 150 - 250 Progress 25 · Artik 33	
	<b>04600067</b>	Clamps for battery chargers (red + black) • KIT <b>120 A</b>	Progress 35 - 35B · Sprint Car 341 - 441 Sprint Car 540 - 640 · Rapid 280 - 380 - 430 Digicar 450E - 540E - 750E - 1100E	
	<b>04600406</b>	Clamps for battery chargers (red + black) • <b>F2E</b>	Autostar 300 - 500	
	<b>04600407</b>	Clamps for battery chargers (red + black) • <b>F12</b>	Sprint Car 540 Digicar 750E - Autostar 701 - 1001	
	<b>04600405</b>	Clamps for battery chargers (red + black) • <b>P280</b>	Autostar 1300 - 2000	

## MMA / TIG ACCESSORIES

All Welding Kits include: Mask · Ground cable · Electrode holder · Brush - Hammer

	<b>99900037</b>	Arc welding kit • <b>180 Amp Kit</b> • <b>16 mm<sup>2</sup></b> <b>3 + 2 mt</b> • <b>25 mm<sup>2</sup></b> connector	Sparc 146 - 186 - 226	
	<b>99900045</b>	Arc welding kit • <b>180 Amp Kit</b> • <b>16 mm<sup>2</sup></b> <b>3 + 2 mt</b> • <b>50 mm<sup>2</sup></b> connector	Flexy 160	
	<b>99900014</b>	Arc welding kit • <b>250 Amp Kit</b> • <b>25 mm<sup>2</sup></b> <b>3 + 2 mt</b> • <b>25 mm<sup>2</sup></b> connector	Sparc 186 - 226	
	<b>99900099</b>	Arc welding kit • <b>250 Amp Kit</b> • <b>25 mm<sup>2</sup></b> <b>3 + 2 mt</b> • <b>50 mm<sup>2</sup></b> connector	Galileo 179 - 219 - 201HF - 219HF Flexy 200 - Compact Easy 211 AC/DC	
	<b>99810021</b>	Foot remote control <b>12 pins</b> · <b>5 m</b>	Compact 211 Easy AC/DC PFC	



## MMA / TIG ACCESSORIES

### GROUND CABLES AND WELDING CABLES

	<b>43210134K</b>	Ground cable with clamp • kit for <b>25 mm<sup>2</sup></b> connector <b>10 mm<sup>2</sup> • 1,6 mt • 140 Amp</b>	Sparc 146	
	<b>43210205K</b>	Ground cable with clamp • kit for <b>25 mm<sup>2</sup></b> connector <b>10 mm<sup>2</sup> • 2,0 mt • 140 Amp</b>	Sparc 146	
	<b>43210138K</b>	Ground cable with clamp • kit for <b>25 mm<sup>2</sup></b> connector <b>16 mm<sup>2</sup> • 2,0 mt • 180 Amp</b>	miniFOX161 • Fox 165 - 185 - 189 Easymig 208 • Sparc 146 - 186 - 226 TP 195A • 202	
	<b>43210091K</b>	Ground cable with clamp • kit for <b>50 mm<sup>2</sup></b> connector <b>16 mm<sup>2</sup> • 2,0 mt • 180 Amp</b>	Flexy 160	
	<b>43210170K</b>	Ground cable with clamp • kit for <b>50 mm<sup>2</sup></b> connector <b>25 mm<sup>2</sup> • 2,0 mt • 300 Amp</b>	Galileo 179 - 219 • 219 HF Fox 211 • Compact Easy 211 AC/DC	
	<b>43210132K</b>	Ground cable with clamp • kit for <b>50 mm<sup>2</sup></b> connector <b>25 mm<sup>2</sup> • 3,0 mt • 300 Amp</b>	Puma 256 - 278	
	<b>43210167K</b>	Ground cable with clamp • kit for <b>25 mm<sup>2</sup></b> connector <b>25 mm<sup>2</sup> • 3,0 mt • 300 Amp</b>	Monomig 216 - 246 - 286 Easymig 238 • Maximig 278	
	<b>43210142K</b>	Ground cable with clamp • kit for <b>50 mm<sup>2</sup></b> connector <b>35 mm<sup>2</sup> • 3,0 mt • 300 Amp</b>	Maximig 298 • Unimig 298 • Puma 298	
	<b>43205054K</b>	Welding cable with electro holder • <b>25 mm<sup>2</sup></b> connector <b>10 mm<sup>2</sup> • 2,4 mt • 140 Amp</b>	Sparc 146 Fox 165	
	<b>43205028K</b>	Welding cable with electro holder • <b>25 mm<sup>2</sup></b> connector <b>16 mm<sup>2</sup> • 3,0 mt • 180 Amp</b>	Sparc 186 - 226 • TP 195A Fox 185 - 189	
	<b>43205049K</b>	Welding cable with electro holder • <b>50 mm<sup>2</sup></b> connector <b>16 mm<sup>2</sup> • 3,0 mt • 180 Amp</b>	Flexy 160 • Fox 211	
	<b>43205040K</b>	Welding cable with electro holder • <b>50 mm<sup>2</sup></b> connector <b>25 mm<sup>2</sup> • 3,0 mt • 250 Amp</b>	Galileo 179 - 219 • 219 HF Fox 211 • Puma 256 - 298	
	<b>22110007</b>	Earth clamp • <b>200A type</b> • Kit <b>160 A - 180 A</b>	Fox 165 - 185 - 189 Easymig 208 • Sparc 146 • TP 195A Flexy 160	
	<b>22110033</b>	Earth clamp • <b>300A type</b> • Kit <b>250 A - 300 A</b>	Sparc 186 - 226 • Galileo 179 - 219 - 219HF Monomig 216 - 246 - 286 • Easymig 238 Maximig 278 - 298 • Unimig 298 - Fox 211 Puma 256 - 278 - 298	
	<b>22110011</b>	Electro holder • <b>352 type</b> • Kit <b>140 A - 160 A</b>	Sparc 146 Fox 165	
	<b>22110010</b>	Electro holder • <b>202 type</b> • Kit <b>180 A - 250 A - 300 A</b>	Sparc 186 - 226 - Fox 185 - 189 - 211 TP 195A • Flexy 160 Galileo 179 - 219 - 219HF Puma 256 - 278 - 298	
	<b>22100001</b>	Plug • <b>25 mm<sup>2</sup></b>	-	
	<b>22100003</b>	Plug • <b>50 mm<sup>2</sup></b>	-	
	<b>22100010</b>	Plug • <b>95 mm<sup>2</sup></b>	-	
	<b>22100020</b>	From <b>50mm<sup>2</sup></b> to <b>25mm<sup>2</sup></b> connector adapter	-	
	<b>10210057</b>	Welding cable • <b>16mm<sup>2</sup></b> - <b>length on demand</b>	-	
	<b>10210059</b>	Welding cable • <b>25mm<sup>2</sup></b> - <b>length on demand</b>	-	


## GAS WELDING (for TIG and MIG/MAG WELDING)

### PRESSURE REGULATORS · ADAPTORS · GAS BOTTLES



	<b>22905114</b>	Zero compensated Argon Flowmeter Regulator	Italy / England	
	<b>22905111</b>	Pressure regulator Argon · double stage with flowmeter	Italy / England	
	<b>22905090</b>	Pressure regulator CO <sub>2</sub> - ECO Line - mini	Italy / England	
	<b>22905029</b>	Pressure regulator ECO Line CO <sub>2</sub> - maxi	Italy / England	
	<b>22910014</b>	Adaptor for gas bottle CO <sub>2</sub> Argon  <b>Suitable for 22905090 e 22905094 pressure regulators</b>	Italy	
	<b>22905118</b>	Pressure regulator Micro · 130 bar · no manometer (for disposable cylinder)	Fitting M10	
	<b>22905115K</b>	Pressure regulator for MisterWork gas bottle 30L/min (for disposable cylinder)	Fitting M10	
	<b>22910140</b>	Adaptor for MisterWork gas bottle with pressure regulator 22905090	Fitting M10	
	<b>21900010</b>	Disposable gas bottle MisterWork Argon · 14 lt · 60 bar Average welding time: ± 70/75 min	Fitting M10	
	<b>21900011</b>	Disposable gas bottle MisterWork MIX C8 Argon/CO <sub>2</sub> · 14 lt · 60 bar Average welding time: ± 70/75 min	Fitting M10	
	<b>21900001</b>	Disposable gas cylinders CO <sub>2</sub>	Fitting M10	
	<b>21900002</b>	Disposable gas cylinders Argon	Fitting M10	
	<b>21900003</b>	Disposable gas cylinders Argon CO <sub>2</sub>	Fitting M10	

## TIG ACCESSORIES

### TORCHES AND CONSUMABLES

	<b>23020173</b>	<b>Tig 17V</b> · 4 mt · with gas valve · connector <b>25 mm<sup>2</sup></b> KIT consumables <b>Ø 1,6 mm</b>	Fox 185 Flex-Line TP 195A - 202	
	<b>23020159</b>	<b>Tig 17V</b> · 4 mt · with gas valve · connector <b>50 mm<sup>2</sup></b> KIT consumables <b>Ø 1,6 mm</b>	Galileo 179 - 219 Flexy 160	
	<b>23020154</b>	<b>Eurotig 26V</b> · 4 mt · with gas valve · connector <b>50 mm<sup>2</sup></b> KIT consumables <b>Ø 2,4 mm</b>	Fox 211 Puma 258 - 298	
	<b>23020157</b>	<b>Eurotig 26</b> · 4 mt · connector <b>50 mm<sup>2</sup></b> · <b>3 Pins</b> KIT consumables <b>Ø 2,4 mm</b>	Galileo 219HF	
	<b>23020176</b>	<b>Eurotig 26</b> · 4 mt · connector <b>50 mm<sup>2</sup></b> · <b>12 Pins</b> KIT consumables <b>Ø 2,4 mm</b>	Compact 211 Easy AC/DC	
	<b>23020189</b>	<b>Eurotig 26</b> · 8 mt · connector <b>50 mm<sup>2</sup></b> · <b>12 Pins</b> KIT consumables <b>Ø 2,4 mm</b>	Compact 211 Easy AC/DC	
	<b>23020409</b>	<b>Tig26</b> · 4 mt · connector <b>50 mm<sup>2</sup></b> · <b>3 Pins</b> KIT consumables <b>Ø 2,4 mm</b>	Galileo 219HF	
	<b>23020410</b>	<b>Tig26</b> · 4 mt · connector <b>50 mm<sup>2</sup></b> · <b>12 Pins</b> KIT consumables <b>Ø 2,4 mm</b>	Compact 211 Easy AC/DC	
	<b>23025006</b>	Cerium tungsten electrode (grey) · <b>Ø 1,6 mm</b> · Lots of 10 pieces		
	<b>23025015</b>	Cerium tungsten electrode (grey) · <b>Ø 2,4 mm</b> · Lots of 10 pieces		
	<b>23025019</b>	Cerium tungsten electrode (grey) · <b>Ø 3,2 mm</b> · Lots of 10 pieces		
	<b>23025007</b>	Pure tungsten electrode (green) · <b>Ø 1,6 mm</b> · Lots of 10 pieces		
	<b>23025016</b>	Pure tungsten electrode (green) · <b>Ø 2,4 mm</b> · Lots of 10 pieces		
	<b>23025020</b>	Pure tungsten electrode (green) · <b>Ø 3,2 mm</b> · Lots of 10 pieces		
	<b>23025004</b>	TIG collet · <b>Ø 1,6 mm</b> · Lots of 3 pieces		
	<b>23025013</b>	TIG collet · <b>Ø 2,4 mm</b> · Lots of 3 pieces		
	<b>23025017</b>	TIG collet · <b>Ø 3,2 mm</b> · Lots of 3 pieces		
	<b>23025005</b>	TIG collet · <b>Ø 3,2 mm</b> · Lots of 3 pieces		
	<b>23025014</b>	TIG collet body · <b>Ø 1,6 mm</b> · Lots of 3 pieces		
	<b>23025018</b>	TIG collet body · <b>Ø 2,4 mm</b> · Lots of 3 pieces		
	<b>23025008</b>	Ceramic nozzle · GR.6 · <b>Ø 9,8 mm</b> · Lots of 5 pieces		
	<b>23025009</b>	Ceramic nozzle · GR.8 · <b>Ø 12,7 mm</b> · Lots of 5 pieces		




### TIG TORCH CONNECTOR

	<b>22105126</b>	TIG torch male connector · 3 pins	-	
	<b>22105166</b>	TIG torch male connector · 12 pins	-	




## MIG/MAG ACCESSORIES


### WELDING WIRE REELS Ø 300 MM

	<b>21910006</b>	SG2 · Copper coated steel wire · Ø 0,6 · 15 Kg	
	<b>21910007</b>	SG2 · Copper coated steel wire · Ø 0,8 · 15 Kg	
	<b>21910008</b>	SG2 · Copper coated steel wire · Ø 1,0 · 15 Kg	
	<b>21910025</b>	SG2 · Copper coated steel wire · Ø 1,2 · 15 Kg	
	<b>21910013</b>	308 LSI · Stainless steel wire · Ø 0,8 · 15 Kg	
	<b>21910026</b>	Aluminium wire · Ø 0,8 · 7,2 Kg	

### WELDING WIRE REELS Ø 200 MM





	<b>21910003</b>	SG2 · Copper coated steel wire · Ø 0,6 · 5 Kg	
	<b>21910004</b>	SG2 · Copper coated steel wire · Ø 0,8 · 5 Kg	
	<b>21910005</b>	SG2 · Copper coated steel wire · Ø 1,0 · 5 Kg	
	<b>21910090</b>	SG3 · Copper coated steel wire · Ø 0,8 · 5 Kg	
	<b>21910083</b>	308 LSI · Stainless steel wire · Ø 0,8 · 5 Kg	
	<b>21910084</b>	316 LSI · Stainless steel wire · Ø 0,8 · 5 Kg	
	<b>21910082</b>	AlMg5 (5356) · Aluminium wire · Ø 0,8 · 2 Kg	
	<b>21910086</b>	AlMg5 (5356) · Aluminium wire · Ø 1,0 · 2 Kg	
	<b>21910092</b>	AlMg5 (5356) · Aluminium wire · Ø 1,2 · 2 Kg	
	<b>21910081</b>	AlSi5 (4043) · Aluminium wire · Ø 0,8 · 2 Kg	
	<b>21910085</b>	AlSi5 (4043) · Aluminium wire · Ø 1,0 · 2 Kg	
	<b>21910093</b>	AlSi5 (4043) · Aluminium wire · Ø 1,2 · 2 Kg	
	<b>21910075</b>	CuSi (3) wire · Ø 0,8 · 2 Kg	
	<b>21910087</b>	CuSi (3) wire · Ø 0,8 · 5 Kg	
	<b>21910014</b>	Flux-cored wire · Ø 0,9 · 4,5 Kg	

### SPOOL HOLDER

	<b>21690880</b>	Spool holder Ø 50 mm adaptor for metallic coils	
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## MIG/MAG ACCESSORIES

### TORCHES AND CONSUMABLES

	<b>23000072</b>	<b>MIG TORCH · 2 m · Black · Direct connection</b>	Panther 152	
	<b>23005319</b>	Torch neck		
	<b>23005001</b>	Torch neck without gas valve		
	<b>23005004</b>	Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces		
	<b>23005005</b>	Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces		
	<b>23005006</b>	Contact tip · $\varnothing$ 1,0 mm · lots of 10 pieces		
	<b>23005007</b>	Gas nozzle · $\varnothing$ 10 mm · lots of 10 pieces		
	<b>23000142K</b>	<b>MIG TORCH TN 14 · 2 m · Direct connection · Gas/No Gas</b>	mini Fox 161	
	<b>23005491</b>	Torch neck		
	<b>23005516</b>	Torch neck + diffuser (without gas valve)		
	<b>23005018</b>	Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces		
	<b>23005019</b>	Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces		
	<b>23005182</b>	Contact tip · $\varnothing$ 0,9 mm · lots of 10 pieces		
	<b>23005021</b>	Gas nozzle · $\varnothing$ 12 mm · lots of 10 pieces		
	<b>23005096</b>	Gas diffuser · lots of 10 pieces		
	<b>23000132</b>	<b>MIG TORCH TN 2,7 m · Direct connection · Gas/No Gas</b>	Fox 165	
	<b>23005491</b>	Torch neck		
	<b>23005516</b>	Torch neck + diffuser (without gas valve)		
	<b>23005018</b>	Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces		
	<b>23005019</b>	Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces		
	<b>23005020</b>	Contact tip · $\varnothing$ 1,0 mm · lots of 10 pieces		
	<b>23005021</b>	Gas nozzle · $\varnothing$ 12 mm · lots of 10 pieces		
	<b>23005096</b>	Gas diffuser · lots of 10 pieces		
	<b>23000440</b>	<b>MA 15 · 3 m · Black · Euro connection</b>	Monomig 186	
	<b>23005102</b>	Torch neck		
	<b>23005018</b>	Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces		
	<b>23005019</b>	Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces		
	<b>23005020</b>	Contact tip · $\varnothing$ 1,0 mm · lots of 10 pieces		
	<b>23005029</b>	Contact tip · $\varnothing$ 1,2 mm · lots of 10 pieces		
	<b>23005117</b>	Gas nozzle · $\varnothing$ 9,5 mm · lots of 10 pieces		
	<b>23005021</b>	Gas nozzle · $\varnothing$ 12 mm · lots of 10 pieces		
	<b>23005022</b>	Spot welding nozzle · lots of 10 pieces		
	<b>23005096</b>	Gas diffuser · lots of 10 pieces		
	<b>23000431</b>	<b>TBI 360 · 4 m · Blue · Euro connection</b>	Maximig 278 - 298 · Unimig 298	
	<b>23005467</b>	Torch neck		
	<b>23005070</b>	Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces		
	<b>23005038</b>	Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces		
	<b>23005039</b>	Contact tip · $\varnothing$ 1,0 mm · lots of 10 pieces		
	<b>23005466</b>	Gas nozzle · $\varnothing$ 16 mm · lots of 10 pieces		
	<b>23005464</b>	Gas diffuser · lots of 10 pieces		
	<b>23005465</b>	Tip holder		



## MIG/MAG ACCESSORIES

### TORCHES AND CONSUMABLES

	<b>23000491</b>	<b>15 AK · 3 m · Gray/Black · Euro connection</b>	Monomig 186 - 196 - 216 - 246 Easymig 208N - 238 · Maximig 278 Fox 185 Flex-line - 189 · TP 195A
	<b>23000452</b>	<b>15 AK · 3 m · Blue/Black · Euro connection for Aluminium</b>	TP 202
	<b>23000490</b>	<b>15 AK · 3 m · Gren/Black · Euro connection for Cusi<sub>3</sub></b>	TP 202
	<b>23005102</b>	Torch neck	
	<b>23005018</b>	Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces	
	<b>23005019</b>	Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces	
	<b>23005020</b>	Contact tip · $\varnothing$ 1,0 mm · lots of 10 pieces	
	<b>23005029</b>	Contact tip · $\varnothing$ 1,2 mm · lots of 10 pieces	
	<b>23005448</b>	Contact tip · $\varnothing$ 1,0 mm for aluminium · lots of 10 pieces	
	<b>23005117</b>	Gas nozzle · $\varnothing$ 9,5 mm · lots of 10 pieces	
	<b>23005021</b>	Gas nozzle · $\varnothing$ 12 mm · lots of 10 pieces	
	<b>23005022</b>	Spot welding nozzle · lots of 10 pieces	
	<b>23005092</b>	Gas diffuser · lots of 10 pieces	
	<b>23005562</b>	Brass wire inlet tube · $\varnothing$ 4,4 x 5 mm · L = 150 mm	
	<b>23000350</b>	<b>TRAFIMET ERGO PLUS 25 · 3 m · Blue · Euro connection</b>	Fox 211 Puma 256 - 278 - 298
	<b>23000354</b>	<b>TRAFIMET ERGO PLUS 25 · 4 m · Blue · Euro connection</b>	Fox 211 Puma 256 - 278 - 298
	<b>23005114</b>	Torch neck	
	<b>23005070</b>	<b>M6</b> Contact tip · $\varnothing$ 0,6 mm · lots of 10 pieces	
	<b>23005038</b>	<b>M6</b> Contact tip · $\varnothing$ 0,8 mm · lots of 10 pieces	
	<b>23005039</b>	<b>M6</b> Contact tip · $\varnothing$ 1,0 mm · lots of 10 pieces	
	<b>23005040</b>	<b>M6</b> Contact tip · $\varnothing$ 1,2 mm · lots of 10 pieces	
	<b>23005112</b>	<b>M6</b> Contact tip · $\varnothing$ 1,6 mm · lots of 10 pieces	
	<b>23005036</b>	Gas nozzle · $\varnothing$ 15 mm · lots of 10 pieces	
	<b>23005037</b>	Spot welding nozzle · lots of 5 pieces	
	<b>23005034</b>	Gas diffuser · lots of 10 pieces	
	<b>23005562</b>	Brass wire inlet tube · $\varnothing$ 4,4 x 5 mm · L = 150 mm	
	<b>23000484</b>	<b>TRAFIMET ERGO PLUS 25 AL - for Aluminium 3 m · Blue · Euro Connection</b>	Fox 211 Maximig 278 - 298 Unimig 298 Puma 256 - 278 - 298
	<b>23005114</b>	Torch neck - Lancia	
	<b>23005442</b>	<b>M8</b> Contact tip - Punta guida filo <b>M8</b> · $\varnothing$ 0,8 mm · lots of 10 pieces	
	<b>23005443</b>	<b>M8</b> Contact tip - Punta guida filo <b>M8</b> · $\varnothing$ 1,0 mm · lots of 10 pieces	
	<b>23005447</b>	<b>M8</b> Contact tip - Punta guida filo <b>M8</b> · $\varnothing$ 1,2 mm · lots of 10 pieces	
	<b>23005036</b>	Gas nozzle - Ugello · $\varnothing$ 15 mm · lots of 10 pieces	
	<b>23005037</b>	Spot welding nozzle - Ugello per spot · lots of 5 pieces	
	<b>23005444</b>	Gas diffuser - Diffusore gas · lots of 10 pieces	
	<b>23005562</b>	Brass wire inlet tube · $\varnothing$ 4,4 x 5 mm · L = 150 mm	

## MIG/MAG ACCESSORIES

### ALUMINIUM KIT

	<b>04600557</b>	<b>23005035</b>	Wire liner · Red · <b>Teflon</b> Ø 1,0 - 1,2 mm · 3,3 m	FOX 185 Flex-Line	
		<b>33805104</b>	Drive Roll for ALU 0,8 - 1,0 mm · Ø 30 mm		
	<b>04600589</b>	<b>23005442</b>	Contact tip · Ø 0,8 mm · <b>M8</b> · AL	FOX 211 Digital	
		<b>23005443</b>	Contact tip · Ø 1,0 mm · <b>M8</b> · AL		
		<b>23005444</b>	Gas diffuser · for Ergo Plus 25 torch · <b>M8</b>		
		<b>23005490</b>	Wire liner · Grey · <b>Graphite</b> Ø 1,0 - 1,2 mm · 3,5 m · brass terminal		
		<b>33805104</b>	Drive roll for ALU 0,8 - 1,0 mm · Ø 30 mm		






### WIRE LINERS

	<b>23005023</b>	Wire liner · Blue · <b>Teflon</b> · Ø 0,6 - 0,9 mm · 3,3 m	MA 15 · 15 AK · 25 AK · 25	
	<b>23005024</b>	Wire liner · Blue · <b>Steel</b> · Ø 0,6 - 0,9 mm · 3 m	15 AK · 25 AK · 25 · 25 AL	
	<b>23005025</b>	Wire liner · Blue · <b>Steel</b> · Ø 0,8 - 1,0 mm · 3,3 m	MA 15	
	<b>23005035</b>	Wire liner · Red · <b>Teflon</b> · Ø 1,0 - 1,2 mm · 3,3 m	MA 15 · 15 AK · 25 AK · 25	
	<b>23005041</b>	Wire liner · Red · <b>Steel</b> · Ø 1,0 - 1,2 mm · 3 m	15 AK · 25 AK · 25 · 25 AL	
	<b>23005069</b>	Wire liner · Red · <b>Steel</b> · Ø 1,0 - 1,2 mm · 3,3 m	MA 15	
	<b>23005097</b>	Wire liner · Blue · <b>Steel</b> · Ø 0,6 - 0,9 mm · 5 m	25 AK · 25 · TBI 360	
	<b>23005106</b>	Wire liner · Red · <b>Steel</b> · Ø 1,0 - 1,2 mm · 5 m	25 AK · 25 · TBI 360	
	<b>23005111</b>	Wire liner · Yellow · <b>Steel</b> · Ø 1,2 - 1,6 mm · 5 m	25 AK · 25 · TBI 360	
	<b>23005127</b>	Wire liner · Blue · <b>Steel</b> · Ø 1,4 x 4 mm · 1,95 m	23000072 · 23000133	
	<b>23005134</b>	Wire liner · Blue · <b>Teflon</b> · Ø 0,6 - 0,9 mm · 5,3 m	25 AK · 25 · TBI 360	
	<b>23005135</b>	Wire liner · Red · <b>Teflon</b> · Ø 1,0 - 1,2 mm · 5,3 m	25 AK · 25 · TBI 360	
	<b>23005324</b>	Wire liner · Blu · <b>Steel</b> · Ø 1,4 x 4 mm · 2,1 m	23000086	
	<b>23005586</b>	Wire liner · Grey · <b>Graphite</b> · Ø 1,0 - 1,2 mm · 3,5 m	MA 15 · 25 AK · 25 AL	
	<b>23005502</b>	Wire liner · Grey · <b>Graphite</b> · Ø 1,0 - 1,2 mm · 5,5 m	TBI 360	
<b>30900001</b>	Wire liner · Black · <b>Teflon</b> · Ø 1,5 x 4 mm · 2,05 m	23000072 · 23000133		



## MIG / MAG ACCESSORIES

### DRIVE ROLLS FOR PLASTIC WIRE FEEDERS

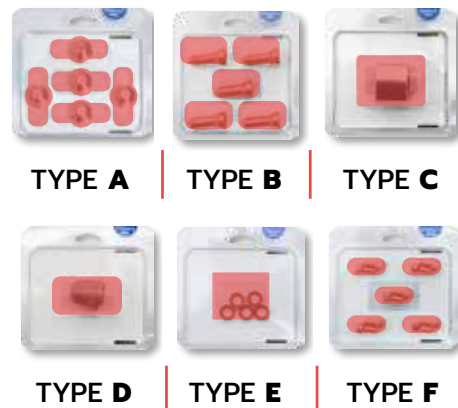
	<b>33805074</b>	Roll · For steel / stainless steel <b>0,6 - 0,8 mm · Ø 25 mm · Knurled groove</b>	mini Fox 161 Fox 165
	<b>33805082</b>	Roll · For aluminium <b>0,8 - 1,0 mm · Ø 25 mm</b>	Fox 165
	<b>33805001</b>	Roll · For steel / stainless steel <b>0,6 - 0,8 mm · Ø 30 mm</b>	Panther 152 Monomig 186 - 196 Easymig 208N - 238
	<b>33805023</b>	Roll · For steel / stainless steel <b>0,6 - 0,8 mm · Ø 30 mm · Tempered</b>	Panther 152 · Fox 189 Monomig 186 - 196 Easymig 208N - 238
	<b>33805128</b>	Roll · For aluminium <b>0,8 - 1,0 mm · Ø 30 mm</b>	Panther 152 · Fox 189 Monomig 186 - 196 Easymig 208N - 238

### DRIVE ROLLS FOR METALLIC WIRE FEEDERS

	<b>33805007</b>	Wire block roll · Ø 30 mm lots of 5 pieces	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A - 202 <b>Puma 256 - 278 - 298</b>
	<b>33805003</b>	Roll · For steel / stainless steel <b>0,6 - 0,8 mm · Ø 30 mm</b>	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A - 202 <b>Puma 256 - 278 - 298</b>
	<b>33805071</b>	Roll · For steel / stainless steel <b>0,6 - 0,9 mm · Ø 30 mm</b>	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A <b>Puma 256 - 278 - 298</b>
	<b>33805101</b>	Roll · For steel / stainless steel <b>0,8 - 1,0 mm · Ø 30 mm</b>	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A - 202 <b>Puma 256 - 278 - 298</b>
	<b>33805005</b>	Roll · For steel / stainless steel <b>1,0 - 1,2 mm · Ø 30 mm</b>	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A <b>Puma 256 - 278 - 298</b>
	<b>33805067</b>	Roll · For flux core <b>1,0 - 1,2 mm · Ø 30 mm · Knurled groove</b>	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A <b>Puma 256 - 278 - 298</b>
	<b>33805104</b>	Roll · For Aluminium <b>0,8 - 1,0 mm · Ø 30 mm</b>	Monomig 216 - 246 -286 Maximig 278 - 298 Unimig 298 Fox 185 - 211 · TP 195A - 202 <b>Puma 256 - 278 - 298</b>

# PLASMA CUTTING ACCESSORIES

## CONSUMABLES' TYPE OF BLISTER



## MANUAL PLASMA TORCH



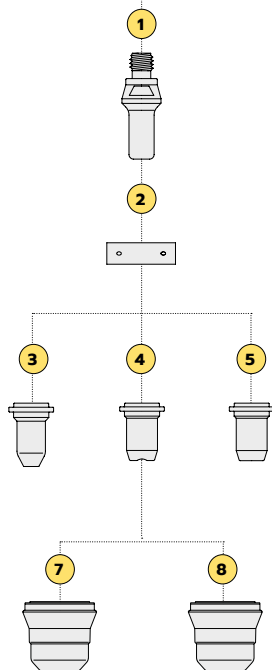
Suitable for	COMBI PC 302K	99830015
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PT 40C	40 A - 4m - direct conn.	23010067
Consumable kit (Pos.): 1 · 2 · 4 · 7		

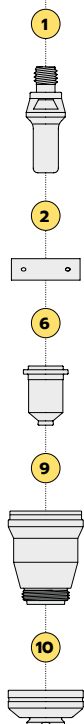
Suitable for	PC 33	99830024
	PC 43	99830019

PT 40	40 A - 4m - direct conn.	23010070
Consumable kit (Pos.): 1 · 2 · 4 · 8		

### Cutting 40 A



### High Performance Cutting 40 A



### CONSUMABLES












Pos.	Description		Code
1	Electrode	10 pcs	23015187BH
2	Diffuser	5 pcs	23015179BH
3	Tip 10/20 A	10 pcs	23015189BH
4	Tip 20/30 A	10 pcs	23015186BH
5	Tip 30/40 A	10 pcs	23015224BH
6	Contact tip 30/40 A	10 pcs	23015349BH
7	Retaining cap 2 holes · (compressor)	1 pc	23015182BH
8	Retaining cap 6 holes	1 pc	23015188BH
9	Retaining cap	1 pc	23015347BH
10	Shield cap	2 pcs	23015348BH

### COMPASS KIT

	23015211
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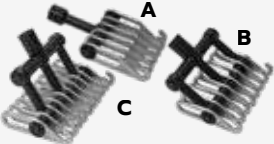




## ACCESSORI PER SALDATURA SPOT

### SPOT CAR EVO 4000 · 5000

	<b>99920218</b>	Gun <b>50 mm<sup>2</sup></b> · <b>2 m</b> · conn. <b>3 pins</b>	Spotcar EVO 4000	
	<b>99920223</b>	Gun · <b>70 mm<sup>2</sup></b> · <b>2 m</b> · conn. <b>3 pins</b>	Spotcar EVO 5000	
	<b>99920108</b>	Ground cable · <b>50 mm<sup>2</sup></b> · direct	Spotcar EVO 4000	
	<b>99920216</b>	Ground cable · <b>70 mm<sup>2</sup></b> · direct	Spotcar EVO 5000	
	<b>99920181</b>	Ground cable + fast ground · <b>50 mm<sup>2</sup></b> · direct	Spotcar EVO 4000	
	<b>99920182</b>	Ground cable + fast ground · <b>50 mm<sup>2</sup></b> · direct · <b>50 mm<sup>2</sup></b>	Spotcar EVO 5000	
	<b>99920122</b>	Fast ground	Spotcar EVO 4000 · 5000	
	<b>99920525</b> Accessories Box	<b>99920126</b>	Puller hammer without handle	Spotcar EVO 4000 · 5000
		<b>99920048</b>	Mandrel for 3 points washers	
		<b>99920042</b>	Carbon electrode <b>10 x 300</b> · lots of 5 pcs	
		<b>99920524</b>	Electrode for squeezing <b>Ø 16 mm</b>	
		<b>99920127</b>	3 pointed washer lots of 10 pcs	
	<b>99920173</b>	Accessories for pulling waved wires		
	<b>99920175</b>	Puller hammer with handle		
	<b>99920126</b>	Puller hammer without handle		

## SPOT WELDING ACCESSORIES




### SPOT CAR EVO 4000 · 5000

	<b>99920048</b>	Mandrel for 3 points washers		
	<b>99920041</b>	3 pointed washer · lots of 20 pcs		
	<b>99920127</b>	3 pointed washer · lots of 10 pcs		
	<b>99920042</b>	Carbon electrode · <b>10 x 300</b> · lots of 5 pcs		
	<b>99920050</b>	Copper chromium electrode · <b>Ø 16 mm</b>		
	<b>99920524</b>	Electrode for squeezing · <b>Ø 16 mm</b>		
	<b>99920177</b>	Electrode for waved wires · <b>Ø 10 mm</b>		
	<b>99920178</b>	<b>M10</b> pointed mass · lots of 1 pcs		
	<b>99920189</b>	<b>M10</b> pointed mass · lots da 5 pcs		
	<b>99920138</b>	<b>M8</b> pointed mass · lots of 1 pcs		
	<b>99920188</b>	<b>M8</b> pointed mass · lots of 5 pcs		
	<b>99920116</b>	Waved copper coated wire · <b>315 mm</b> · lots of 10 pcs		
	<b>99920117</b>	Waved copper coated wire · <b>315 mm</b> · lots of 50 pcs		
	<b>99920113</b>	<b>A</b> · Hook gripping head · 6 hook		
	<b>99920114</b>	<b>B</b> · Hook gripping head · 8 hook		
	<b>99920115</b>	<b>C</b> · Hook gripping head · 10 hook		
	<b>99920187</b>	Kit mandrel for spot welding		
	<b>99920186</b>	Mandrel for coal heating/crushing spot welder		
	<b>99920190</b>	Welding spray resistant fabric up to 1000°C · <b>92 x 200 cm</b>		
	<b>99920090</b>	Electrode Holder mandrel with nut		




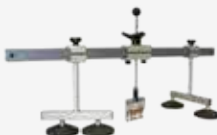


## SPOT WELDING ACCESSORIES

### SPOT CAR ALU 33 · 66












	<b>99920500</b>	FastGun + Ground cable · <b>3 m · 3 pins</b>		
	<b>99920478</b>	Electrode for AL screws · <b>for M3</b>		
	<b>99920219</b>	Electrode for AL screws · <b>for M4</b>		
	<b>99920479</b>	Electrode for AL screws · <b>for M5</b>		
	<b>99920480</b>	Electrode for AL screws · <b>for M6</b>		
	<b>99920159</b>	Washers KIT · Kit of 5 pcs · <b>for M3</b>		
	<b>99920160</b>	Washers KIT · Kit of 5 pcs · <b>for M4</b>		
	<b>99920161</b>	Washers KIT · Kit of 5 pcs · <b>for M5</b>		
	<b>99920162</b>	Washers KIT · Kit of 5 pcs · <b>for M6</b>		
	<b>99920163</b>	Screws - AlMg3 · 100 pcs · <b>M3 x 12 mm</b>		
	<b>99920164</b>	Screws - AlMg3 · 100 pcs · <b>M4 x 16 mm</b>		
	<b>99920165</b>	Screws - AlMg3 · 100 pcs · <b>M5 x 20 mm</b>		
	<b>99920167</b>	Screws - AlSi12 · 100 pcs · <b>M3 x 12 mm</b>		
	<b>99920168</b>	Screws - AlSi12 · 100 pcs · <b>M4 x 16 mm</b>		
	<b>99920169</b>	Screws - AlSi12 · 100 pcs · <b>M5 x 20 mm</b>		
	<b>99920134</b>	<b>Accessories box</b> Electrode for AL screws · <b>for M4</b> Washers KIT · Kit of 5 pcs · <b>for M4</b> Screws - AlMg3 · 100 pcs · <b>M4 x 16 mm</b> Screws - AlSi12 · 100 pcs · <b>M4 x 16 mm</b>		

### PULL SYSTEM



	<b>99920141</b>	Pull System for aluminium		
	<b>99920227</b>	Alu pocket pull system		
	<b>99920226</b>	Double pull system		
	<b>99920225</b>	Single pull system		

## HELVI MERCHANDISING · DEALER KIT

### MERCHANDISING

	77920011	Helvi <b>MUGS</b> · Available in different colors: 
	77920012	Helvi <b>METER</b> · 3m · color <b>RED</b>
	77920013	Helvi <b>PENS</b> · Available in different colors: 
	77920014	Helvi <b>ANTI-STRESS</b> · shape Fox 185
	77920015	Helvi <b>T-SHIRTS</b> · Available in different colors and sizes: 
	77920016	Helvi <b>SHOPPERS</b> · Available in different colors: 
	77920017	Helvi <b>CAPS</b> - color <b>BLACK</b>

### DEALER KIT

	77920023	<b>ROLLUP</b> Helvi · Institutional design · ITALIAN 80x200 mm
	77920024	<b>ROLLUP</b> Helvi · Institutional design · ENGLISH 80x200 mm
	77920025	<b>ROLLUP</b> Helvi · Welding design · ITALIAN 80x200 mm
	77920026	<b>ROLLUP</b> Helvi · Welding design · ENGLISH 80x200 mm
	77920027	<b>PVC BANNER</b> Helvi 100x200 mm

# TRADING TERMS & CONDITIONS

## Art 1 Contract formation.

Any order from the Buyer shall be binding for HELVI SPA, only when accepted in writing by HELVI SPA itself. HELVI SPA shall have the right to refuse any amendment requested by the Buyer. Unless otherwise agreed in writing, HELVI SPA shall not accept any cancellation of orders.

## Art 2 Characteristics of the Products

Catalogues, price lists or other advertising matters are only an indication of the type of products and no prices or other particulars contained herein shall be binding for HELVI SPA. Any information or data relating to technical features and/or specifications of the Products contained in dépliant, price lists, catalogues and similar documents shall be binding only to the extent they are expressly referred to in the contract. All information given in price lists and catalogues or any literature are supplied by HELVI SPA in good faith; however, whilst every effort has been made to ensure that the information is correct, HELVI SPA does not accept any responsibility for errors which may have inadvertently been made. Designs and drawings of machines, wiring diagrams, manuals and graphics and marketing materials are HELVI SPA's property and no one can alter, modify or copy them. At any time, HELVI SPA shall have the right to make any change to the products which appear to be necessary or suitable. The Buyer shall have no right to indemnities or other remedies for such modifications.

## Art 3 Prices.

HELVI SPA shall have the right to increase prices, by prior notice, in accordance to any change of cost of raw materials and labour which may take place between the date of order and the delivery. Unless otherwise agreed, the prices indicated in the quotations and in the contract are EX WORKS Sandrigo (Vicenza-Italy) and include only the packing costs for each single Product. It is agreed that any other cost or charge relating to any other kind of packaging, including customised packaging, shall be for the account of the Buyer.

## Art 4 Payment conditions.

All payments must be made, for the exact amount applied without any deductions and clear of any charges, directly to the head office of HELVI SPA in Sandrigo (Vicenza – Italy), according to the payment conditions agreed upon each time. In addition to the other remedies permitted under the applicable laws, in case of late payment HELVI SPA shall have the right, at its own discretion, to charge delay interests at the current legal rate plus seven per cent, plus cashing, banking and legal expenses. Delay interests shall be due, from due date to the payment without any formal requests. Unless otherwise agreed in writing, any expenses or bank commissions due with respect to the payment shall be for the Buyer's account.

## Art 5 Retention of title.

a) It is agreed that the Products delivered remain HELVI SPA's property until complete payment is received by HELVI SPA. b) The Buyer shall have, according to article 5 a) hereabove, the right to sell the Products, and any new product in which the Products have been converted into other products, in the ordinary course of business on the understanding that the proceeds of any such sale shall belong to HELVI SPA to whom the Buyer shall account such proceeds up to the concurrence of the full price due by the Buyer to HELVI SPA for the supply of the Products. c) HELVI SPA shall have the right at any time to revoke the Buyer's right of sale by written notice to the Buyer, if the Buyer is in default in respect of payment of any sum due to HELVI SPA for longer than 7 (seven) working days (whether in respect of Products or other goods or services supplied by HELVI SPA to the Buyer for any other reason whatsoever). d) On termination of the Buyer's right of sale in accordance with the foregoing conditions, the Buyer must place the Products at the disposal of HELVI SPA who shall have the right to enter upon the Buyer's premises for the purpose of removing the Products. e) The Buyer shall act as a bailee and the Products shall be on its responsibility, according to the articles 1766 and following of Italian Civil Code, until the complete payment is received by HELVI SPA.

## Art 6 Terms of delivery.

Except otherwise agreed, the supply of the goods will be EX WORKS (Incoterms® 2020), Sandrigo (Vicenza, Italy), even if it is agreed that HELVI SPA will take care, wholly or in part, of the shipment. In any case, whatever the delivery term agreed between the parties, the risks will pass to the Buyer, at the latest, on delivery of the goods to the first carrier. HELVI SPA shall not provide any transport insurance for the Products, unless otherwise agreed in writing.

## Art 7 Complaints

Any complaints relating to packing, quantity, number or exterior features of the products, including transport damages (apparent defects), must be notified to HELVI SPA by a written notice within eight days from receipt of the Products; failing such a notification, the Buyer's right to claim the above defects will be forfeited. It is agreed that any complaints or objections do not entitle the Buyer to suspend or to delay payment of the Products as well as payment of any other supply. HELVI SPA shall not accept any return without HELVI SPA's prior written authorization. Any return of Products not authorized by HELVI SPA shall be shipped back to the Buyer at the Buyer's charge.

## Art 8 Delivery times.

Any date quoted in orders confirmations for delivery of the Products is approximate. In the event of delay, no liability, order cancellation nor penalty shall be accepted by HELVI SPA. HELVI SPA shall endeavour to complete the contract and/or deliver the Products within the time agreed (if any) but it shall not be liable for any loss or damage of any kind whatsoever caused directly or indirectly by any delay in the completion of the contract or delivery of the Products. Any delay caused by force majeure or by acts or omissions of the Buyer (e.g. the lack of indications which are necessary for the supply of the Products), shall not be considered as a delay on HELVI SPA's responsibility. If the Buyer fails to make any payment on the time and in the manner specified by HELVI SPA or becomes insolvent or bankrupt or makes composition with its creditors or has a receiver appointed or passes a resolution for winding up, HELVI SPA shall have, at its own discretion, the right to suspend or cancel further deliveries, to request advanced payments or guarantees.

## Art 9 Force majeure.

Either party shall have the right to suspend performance of its contractual obligations when such performance becomes impossible or unduly burdensome because of unforeseeable events beyond its control, such as strikes, boycotts, lock-outs, fires, war (either declared or not), civil war, riots, revolutions, requisitions, embargo, energy black-outs, delay in delivery of components or raw materials.

## Art 10 Warranty.

HELVI SPA undertakes to remedy any defects, lack of quality or non-conformity of the Products for which it is liable, occurring within the warranty terms, provided such defects have been timely notified in accordance with art. 7. HELVI SPA at its sole discretion may choose whether to repair, replace or refund (totally or partially) the products found to be defective. The guarantee will be valid only if the product is accompanied by an invoice or receipt proving the date of sale with the serial number indicated in writing in the sales document. In the event that it cannot be demonstrated with an invoice or receipt, HELVI SPA reserves the right to apply the standard guarantee of 24 months from the date of the HELVI SPA sales document to the dealer.

## WARRANTY TIME PERIODS

36 MONTHS	24 MONTHS	
Transformers Chokes	Rectifiers	Power PCBs Control PCBs
12 MONTHS		
Cooling system Water pump Switches	Contactors Gas valves Mechanical parts	Remote controls Fan motors Wire drive motors Welding masks

## WHAT IS NOT COVERED UNDER THIS WARRANTY:

- consumable parts, for instance contact tips, nozzles, welding cables, ground clamps, electrode holders, cable assemblies, wire spools, drive rolls, etc.;
- parts that fail due to normal wear;
- TIG, MIG and PLASMA torches;
- Input cables;
- Gas regulator;
- On-site intervention costs, damage from non-production;
- Products failed due to transport damages, abnormal working conditions, failure to follow HELVI SPA instructions, negligence, lack of maintenance, abnormal or unsuitable supply of electricity, misuse, tampering, alteration and/or repair of the products without HELVI SPA authorization.

## WARRANTY EXCLUSIONS

The following cases are excluded from the guarantee and immediately invalidate the validity:

- The warranty will expire if the product has exceeded 36 months of storage;
- Breakages due to incorrect use or neglect;
- Transport damage;
- Wrong connection to the electrical network;
- Overvoltage or undervoltage due to the electricity grid
- Overvoltage or undervoltage due to underpowered, un-stabilized, too old or incorrectly used motor-generators;
- Tampering or Repairs performed by not authorized personnel;
- Removal of labels;
- Failure to pay an instalment or product invoice.

## RETURN AUTHORIZATION

The buyer must contact the retailer from whom he purchased the Product or the nearest authorized service center ([www.helvi.com](http://www.helvi.com)), presenting it accompanied by the necessary documentation:

- Legible copy of the invoice or purchase receipt (proving the sales data with the serial number indicated in writing in the sales document).

Failing this documentation the warranty shall be void. In case that the retailer is not available, the buyer can forward the warranty claim directly to:

### HELVI SPA.

V.le G. Galilei 123, 36066 Sandrigo (VI), Italy  
[service@helvi.com](mailto:service@helvi.com) Ph: +39 0444 666999 Fax: +39 0444 750070

HELVI SPA shall not accept any return without HELVI SPA's prior written authorization. In case of unauthorized returns, HELVI SPA reserves the right to charge a handling fee of 40,00€. If a returned product is found not to be defective, HELVI SPA reserves the right to charge the labour cost of 50,00€/hour for the fault investigation. The warranty is EX WORKS (Incoterms® 2020), Sandrigo (Vicenza, Italy), therefore HELVI SPA shall not pay any transport costs or expenses (whether from the Buyer's premises to HELVI SPA, or from HELVI SPA premises to the Buyer's) which shall be at the Buyer's charge. At the discretion of HELVI SPA, foreign customers may be exempt from returning defective Products if the cost of transportation is excessive.

## WARRANTY REPAIR

In the event that a product failure occurs within the warranty period, please contact your nearest authorized dealer or service center ([www.helvi.com](http://www.helvi.com)). At its discretion, HELVI SPA can send spare parts free of charge to the nearest service center to carry out the repair, only after checking with the Helvi Service, who can authorize the repair or not.

## Art 11 Online E-Commerce and use of company logos.

HELVI SPA does not authorize its dealers to promote or sell their products on any online sales platform or website, unless agreed between both parties. The use of registered trademarks without the authorization expressed by HELVI SPA commits a criminal offense sanctioned by the Italian and European legal system (or by the country in which the crime was committed) and as such is punishable by the competent judicial police authorities and punished with the penalties provided for this offense.

## Art 12 Applicable laws – Jurisdiction.

These general terms and conditions and any contract made hereunder with HELVI SPA shall be construed and interpreted in accordance with the substantive laws of Italy. The competent law Court of Vicenza, ITALY, shall have exclusive jurisdiction in any action arising of or in connection with these terms and condition or any contract made with HELVI SPA. However as an exception to the principle hereabove, HELVI SPA is in any case entitled to bring its action before the competent court of the place where the Buyer has its registered office. The United Nations Conventions for the International Sale of Goods does not apply to any supply of Products made by HELVI SPA to any Buyer.

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HELVI WORLD

ENGLISH  
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HELVI WELDING

VERSIONE  
 IN ITALIANO



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