

2024

LINE CATALOGUE







Beta

SOVICO (Monza Brianza)

HELVI

SANDRIGO (Vicenza)

www.helvi.com

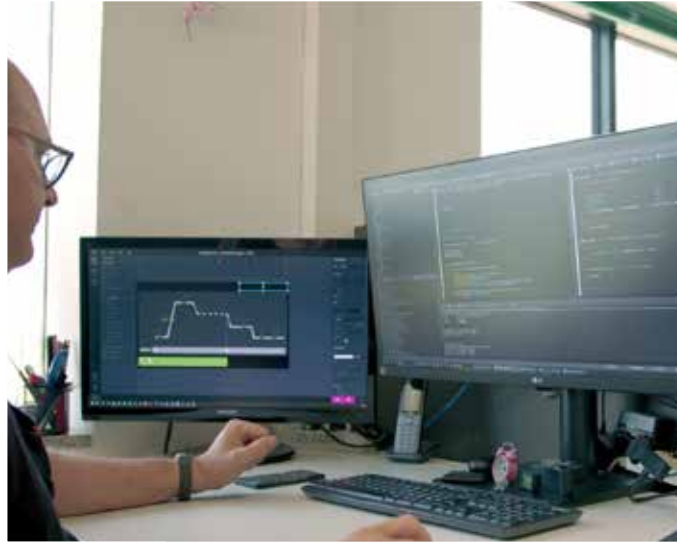


From 1975 to the present day, the story of **Helvi S.p.A.** is that of an Italian company with a strong international dimension, pursued throughout its growth, from its foundation to its entry into the **Beta Group**.

Helvi S.p.A. produces industrial welding machines, plasma cutting machines, professional battery chargers and accessories. The headquarter is in Sandrigo, in the province of Vicenza, and today employs more than 80 people, with a turnover of about 15 million euros developed more than 70 percent abroad.

In 2023 it became part of the **Beta Group**, Europe's leading manufacturer of tools and work equipment for specialists in mechanical engineering, industrial maintenance and auto repair.

Reliability is the key factor in our success: those who choose Helvi finds it in our people and in every welding machine, plasma cutting machine or professional battery charger. Every component is chosen and tested down to the smallest details, so that they combine perfectly in products designed to guarantee the best performance according to high quality standards.



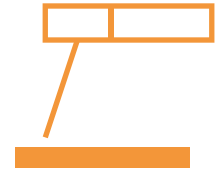
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MMA / TIG LIFT

◦ MMA / TIG LIFT



	PART NUMBER	Part number BAG KIT	Part number BOX KIT	AMP MAX	INPUT VOLTAGE	ELECTRODE Ø MAX	CABLE CONNECT.	TIG
SPARC 146	99805991	-	99806001	120A	1ph 230V ± 10%	3,25 mm	25 mm ²	
SPARC 186	99805992	99806012	99806002	160A	1ph 230V ± 10%	4 mm	25 mm ²	
SPARC 226	99805993	99806013	99806003	200A	1ph 230V ± 10%	4 mm	25 mm ²	
GALILEO 179	99806008	99806010	-	160A	1ph 230V ± 10%	4 mm	50 mm ²	▪
GALILEO 219	99806009	99806011	-	200A	1ph 230V ± 10%	5 mm	50 mm ²	▪

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.

SPARC RANGE



Easy-to-use welding inverter: great welding performance with all types of commercial electrodes (rutile, basic, stainless steel). Overvoltage, over temperature and anti-sticking control are included. 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_o	70 V	70 V	70 V
Amp. Min-Max	10 ÷ 120 A	10 ÷ 160 A	20 ÷ 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 ÷ 3,25 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 carrton box	245x385x235 mm	245x385x235 mm	245x385x235 mm
Weight in carton box	5,4 / 4,9 Kg	6,4 / 5,9 Kg	7,6 / 7,0 Kg
Kit Carton box part number	99806001	99806002	99806003
Dim. in Helvi Bag M	-	300x530x345 mm	300x530x345 mm
Weight in Helvi Bag M	-	8,2 / 7,4 Kg	8,6 / 7,8 Kg
KIT Helvi Bag M part number	-	99806012	99806013



HELVI KIT CONFIGURATION



CARTON BOX



HELVI BAG

SPARC 146 CARTON BOX KIT · 99806001		SPARC 186 CARTON BOX KIT · 99806002		SPARC 226 CARTON BOX KIT · 99806003	
99805991	Power source · Sparc 146	99805992	Power source · Sparc 186	99805993	Power source · Sparc 226
43210238	Ground cable · 10mm ² · 1,6 m	43210229	Ground cable · 16mm ² · 2 m	43210236	Ground cable · 16mm ² · 2 m
43205118	Welding cable · 10mm ² · 2,4 m	43205114	Welding cable · 16mm ² · 3 m	43205114	Welding cable · 16mm ² · 3 m
21905064	Welding mask · Glass 75x98 mm	21905064	Welding mask · Glass 75x98 mm	21905064	Welding mask · Glass 75x98 mm
44900001	Glass KIT	44900001	Glass KIT	44900001	Glass KIT
21905039	Hammer/brush	21905039	Hammer/brush	21905039	Hammer/brush



WELDING KIT

SPARC 186 HELVI BAG KIT · 99806012		SPARC 226 HELVI BAG KIT · 99806013	
99805992	Power source · Sparc 186	99805993	Power source · Sparc 226
43210229	Ground cable · 16mm ² · 2 m	43210236	Ground cable · 16mm ² · 2 m
43205114	Welding cable · 16mm ² · 3 m	43205114	Welding cable · 16mm ² · 3 m
21905039	Hammer/brush	21905039	Hammer/brush
21905178K	Helvi BAG M · 450x220x270 mm	21905178K	Helvi BAG M · 450x220x270 mm

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

GALILEO 179	
Input Voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	4,8 KW
U_o	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	7,0 / 6,4 Kg
Power source part number	99806008
Dim. in Helvi Bag M	300x530x345 mm
Weight in Helvi Bag M	12,2 / 11,1 Kg
KIT Helvi Bag part number	99806010



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



INCLUDED WITH BAG KIT · 99806010	
Power source	99806008 · Galileo 179
Ground cable	43210170 · 25mm ² · 2m
Welding cable	43205097 · 25mm ² · 3m
Helvi Bag M	21905178K · 450x220x270 mm

OPTIONAL · KIT CABLES 25mm²	
99900278	Ground cable 43210170 · 25mm ² · 2m
	Welding cable 43205097 · 25mm ² · 3m

GALILEO 219	
Input Voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	6 KW
U_o	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	7,4 / 6,8 Kg
Power source part number	99806009
Dim. in Helvi Bag M	300x530x345 mm
Weight in Helvi Bag M	12,6 / 11,5 Kg
KIT Helvi Bag part number	99806011



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



INCLUDED WITH BAG KIT · 99806011	
Power source	99806009 · Galileo 219
Ground cable	43210170 · 25mm ² · 2m
Welding cable	43205097 · 25mm ² · 3m
Helvi Bag M	21905178K · 450x220x270 mm

OPTIONAL · KIT CABLES 25mm²	
99900278	Ground cable 43210170 · 25mm ² · 2m
	Welding cable 43205097 · 25mm ² · 3m





TIG DC HF · TIG AC/DC HF

○ TIG DC HF · TIG AC/DC HF



	PART NUMBER	KIT PART NUMBER	AMP MAX	INPUT VOLTAGE	MAX Ø ELECTRODE	CABLE CONNECT.	TIG DC	TIG AC
GALILEO TIG 219 HF	99806005	99806007	200A	1ph 230V ± 10%	-	50 mm²	▪	-
GALILEO TIG 211 EASY AC/DC	99806020	99806020K	200A	1ph 110/230V ± 10%	5 mm	50 mm²	▪	▪



TIG DC HF · TIG AC/DC HF

HF (High Frequency) ARC START

Arc strike ignition 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 funcions, 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 mininum 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

Input voltage	(1ph) 230V ± 10% · 50/60Hz	
	TIG	MMA
Power 60%	4,2 KW	5,3 KW
U₀	64 V	64 V
Amp. Min-Max	5 ÷ 200 A	5 ÷ 160 A
Duty Cycle 40°C	200A @ 20% 115A @ 60% 90A @ 100%	160A @ 20% 95A @ 60% 75A @ 100%
Ø Electrode	-	1,6 ÷ 4 mm
Electrode type	-	6013 - 7018
Insulation	H	
Protection degree	IP23S	
Dimensions (LxWxH)	140x400x245 mm	
Box (LxWxH)	175x510x290 mm	
Weight box/net	8,8 / 8,2 Kg	
Power source part number	99806005	
Dim. in Helvi Bag	300x620x325 mm	
Weight in Helvi Bag M	15,8 / 14,7 Kg	
KIT part number	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 BAG KIT · 99806007

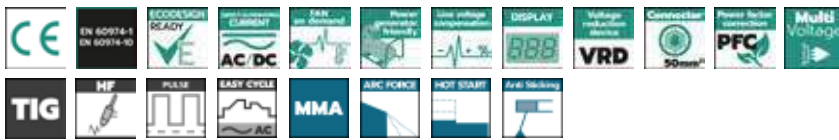
Power source	99806005 · Galileo TIG 219 HF
TIG torch Ergotig 26	23020157 · 50mm ² · 4m · 3 pin
Ground cable	43210170 · 25mm ² · 2m
Gas hose KIT	30900030 · 2m
TIG welding gloves	21905133 T010 · Size 10
Helvi Bag XL	21905139K · 540x225x250 mm



GALILEO TIG 211 EASY AC/DC

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_o	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					
Protection degree	IP23S					
Dimensions (LxWxH)	195x490x395 mm					
Box (LxWxH)	300x640x455 mm					
Weight box/net	12,0 / 11,2 Kg					
Power source part number	99806020					
Dim. in Box KIT	340x630x460 mm					
Weight in Box KIT	21,2 / 19,6 Kg					
Box KIT part number	99806020K					

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 WITH KIT VERSION · 99806020K

POWER SOURCE	99806020 · Galileo TIG 211 Easy AC/DC
TIG torch	23020410 · Tig 26 · 4m · 50mm ² · 12 pins
Ground cable	43210170 · 25mm ² · 2m
Gas hose KIT	30900030 · 2m

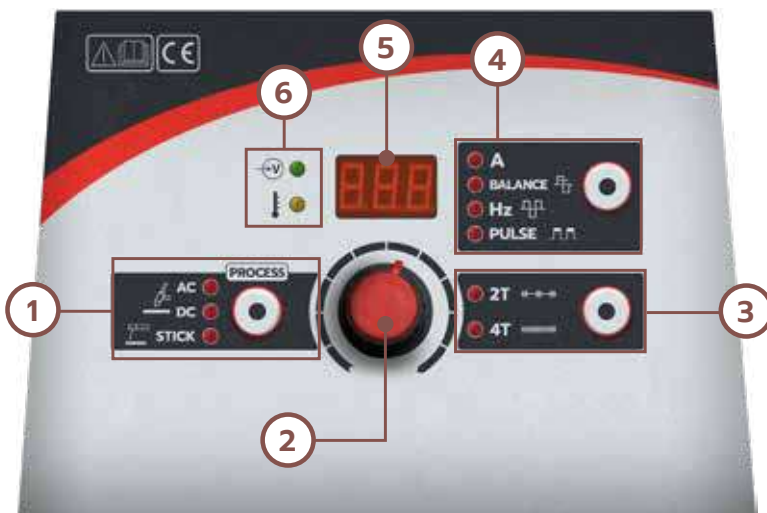
INCLUDED

Connector	22105166 · 12 pin · Male (for TIG torch)
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OPTIONAL

TIG torch TIG 26	23020410 · 12 pin · 4m
Trolley	99900258
Foot remote control	99810021 · 12 pin · 5m

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

MULTIPROCESS




	PART NUMBER	AMP MAX	INPUT VOLTAGE	WIRE SPOOL	GAS / NO GAS	TORCH CONNECT.	WIRE FEEDER TYPE
MINI FOX 161	99820060	150A	1ph 230V ± 10%	1 Kg	▪	Direct	2 rolls
FOX 165	99820050	150A	1ph 230V ± 10%	1 + 5 Kg	▪	Direct	2 rolls
FOX 185	99820039A	170A	1ph 115/230V	1 + 5 Kg	▪	Euro connection	2 rolls metallic
FOX 191	99820052	180A	1ph 230V ± 10%	1 + 5 Kg	▪	Euro connection	2 rolls
FOX 211	99820053A	200A	1ph 230V ± 10%	1 + 5 Kg	▪	Euro connection	2 rolls metallic
PUMA 191	99820065	180A	1ph 230V ± 10%	5 + 15 Kg	▪	Euro connection	2 rolls metallic
+ KIT	99820065K						
PUMA 256	99820061	250A	1ph 230V ± 10%	5 + 15 Kg	▪	Euro connection	2 rolls metallic
+ KIT	99820061K						
PUMA 278	99825017A	250A	3ph 400V ± 10%	5 + 15 Kg	▪	Euro connection	4 rolls metallic
+ KIT	99825017KA						
PUMA 298	99825016	290A	3ph 400V ± 10%	5 + 15 Kg	▪	Euro connection	4 rolls metallic
+ KIT	99825016K						

ACCESSORIES FOR THE FOX RANGE

OPTIONAL "EASY GAS"

	22905118	Pressure regulator Micro 130 bar · no manometer
	04600404	Gas bottle plastic support
	21900001	Disposable gas bottles CO ₂
	21900002	Disposable gas bottles Argon
	21900003	Disposable gas bottles Argon CO ₂
	99900171A	Trolley

OPTIONAL "FULL GAS"

99900258	Trolley HD AIR
	



mini FOX 161

Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	2 KW
U ₀	26 V
Amp Min-Max	10 ÷ 150 A
Duty cycle 40°C	150A @ 20% 90A @ 60% 70A @ 100%
Steel	0,8 Ø mm
Flux core	0,9 Ø mm
Insulation	H
Protection degree	IP22S
Dimensions (LxWxH)	190x370x335 mm
Box (LxWxH)	250x580x355 mm
Weight gross/net	10,0 / 9,2 Kg
Part number	99820060



INCLUDED

MIG torch (fixed)	23000142K · 10mm ² · 2m
Ground cable	43210234 · 10mm ² · 2m
Flux core wire spool	21910116 · 0,5 Kg · Ø 0,9mm
Gas hose KIT	30900030 · 2m
Drive roll	33805074 Ø 25 mm · 0,6 ÷ 0,8/0,9 mm Knurled
Hammer-brush	21905039

FOX 165

Input voltage	(1ph) 230V ± 10% · 50/60Hz	
Power 60%	1,9 KVA	
	MIG	MMA
U ₀	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%
Steel	0,8 Ø mm	-
Flux core	0,9 Ø mm	-
Ø Electrode	-	1,6 ÷ 3,25 Ø mm
Electrode type	-	6013 - 7018 - CrNi
Insulation	H	
Protection degree	IP22S	
Dimensions (LxWxH)	220x480x385 mm	
Box (LxWxH)	260x590x435 mm	
Weight gross/net	12,0 / 10,5 Kg	
Part number	99820050	



INCLUDED

MIG torch	23000132 · 10mm ² · 2,7m
Ground cable	43210229 · 16mm ² · 2m
Flux core wire spool	21910116 · 0,5 Kg · Ø 0,9 mm
Drive roll	33805074 Ø 25 mm · 0,6 ÷ 0,8/0,9 mm Knurled
Gas hose KIT	30900030 · 2m

OPTIONAL

Trolley	99900171A
MMA Welding cable	43205028K · 16mm ² · 3,0m



FOX 185

Input voltage	(1ph) 115V · 50/60Hz		(1ph) 230V · 50/60Hz			
Power 60%	1,9 KVA		2,8 KVA			
	MIG	MMA	TIG	MIG	MMA	TIG
U₀	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%
Steel	0,6 ÷ 0,8 Ø mm					
Stainless steel	0,8 Ø mm					
Aluminium	0,8 ÷ 1,0 Ø mm					
Flux core	0,9 Ø mm					
CuSi₃	0,8 Ø mm					
Ø Electrode	1,6 ÷ 3,25 Ø mm					
Electrode type	6013 - 7018 - CrNi					
Insulatin	H					
Protect. degree	IP22S					
Dim. (LxWxH)	220x480x385 mm					
Box (LxWxH)	260x590x435 mm					
Weight gross/net	16 / 12 Kg					
Part number	99820039A					


INCLUDED

MIG torch	23000491 · Euro connection · 3m
Ground cable	43210138 · 16mm ² · 2m
Steel wire spool	21910108 · 1 Kg · Ø 0,8mm
Drive roll	33805003 · Ø 30 mm · 0,6 ÷ 0,8 mm
Gas hose KIT	30900030 · 2m

OPTIONAL

Trolley	99900171A
MMA welding cable	43205028K · 16mm ² · 3m
TIG torch	23020173 · Tig 17V


FOX 191

Input voltage	(1ph) 230V ± 10% · 50/60Hz		
	MIG	MMA	TIG
Power 60%	2,4 KW	2,8 KW	2,2 KW
U₀	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%
Steel	0,6 ÷ 1,0 Ø mm	-	-
Stainless steel	0,8 ÷ 1,0 Ø mm	-	-
Aluminium	0,8 ÷ 1,0 Ø mm	-	-
Flux core	0,9 Ø mm	-	-
Ø Electrode	-	1,6 ÷ 4,0 Ø mm	-
Electrode type	-	6013 - 7018 - CrNi	-
Insulatin	H		
Protection degree	IP22S		
Dimensions (LxWxH)	220x480x385 mm		
Box (LxWxH)	260x590x435 mm		
Weight gross/net	12,5 / 10,5 Kg		
Part number	99820052		


NEW
INCLUDED

MIG torch	23000491 · Euro connection · 3m
Ground cable	43210138 · 16mm ² · 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 · 2m

OPTIONAL

Trolley	99900171A
MMA welding cable	43205028K · 16mm ² · 3m



FOX 211

Input voltage	(1ph) 230V ± 10% · 50/60Hz		
Power 60%	5,5 KVA		
	MIG	MMA	TIG
U _o	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%
Steel	0,6 ÷ 1,0 Ø mm	-	-
Stainless steel	0,8 Ø mm	-	-
Aluminium	0,8 ÷ 1,0 Ø mm	-	-
Flux core	0,9 Ø mm	-	-
CuSi ₃	0,8 Ø mm	-	-
Ø Electrode	-	1,6 ÷ 5,0 Ø mm	-
Electrode type	-	6013 - 7018 - CrNi	-
Insulatin	H		
Protection degree	IP22S		
Dimensions (LxWxH)	220x520x385 mm		
Box (LxWxH)	260x640x435 mm		
Weight gross/net	23 / 19 Kg		
Part number	99820053A		



INCLUDED

MIG torch	23000494 · ErgoPlus 25 · 3m
Ground cable	43210132 · 25mm ² · 3m
Drive roll	33805101 · Ø 30 mm · 0,8 ÷ 1,0 mm
Gas hose KIT	30900030 · 2m

OPTIONAL

Trolley	99900171A
TIG torch	23020199 · TIG 26V · 4m
MMA welding cable	43205049K · 16mm ² · 3m



PUMA 191

Input voltage	(1ph) 230V ± 10% · 50/60Hz		
Power 60%	2,3 KVA		
	MIG	MMA	TIG
U ₀	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%
Steel	0,9 Ø mm	-	-
Stainless steel	0,6 + 0,8 Ø mm	-	-
Aluminium	0,8 + 1,0 Ø mm	-	-
Flux core	0,8 Ø mm	-	-
CuSi ₂	0,8 Ø mm	-	-
Ø Electrode	-	1,6 + 3,25 Ø mm	-
Electrode type	-	6013 - 7018 - CrNi	-
Insulatin	H		
Protection degree	IP22S		
Dimensions (LxWxH)	460x770x660 mm		
Box (LxWxH)	360x795x530 mm		
Weight gross/net	37 / 33 Kg		
Power source part number	99820065		
KIT part number	99820065K		


INCLUDED WITH KIT VERSION · 99820065K

Power source	99820065 · Puma 191 (No accessories)
MIG torch	23000491 · Euro connection · 3m
Ground cable	43210138 · 16mm ² · 2m
Drive roll	33805003 · Ø 30 mm · 0,6 ÷ 0,8 mm

OPTIONAL

TIG torch	23020173 · 17V · 4m
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PUMA 256

Input voltage	(1ph) 230V ± 10% · 50/60Hz		
Power 60%	5,6 KW	5,6 KW	5,6 KW
U ₀	30 V	56 V	10 V
Amp Min-Max	30 ÷ 250A	20 ÷ 200 A	10 ÷ 250 A
Duty cycle 40°C	250A @ 30% 190A @ 60% 170A @ 30%	200A @ 30% 170A @ 60% 150A @ 100%	250A @ 30% 190A @ 60% 170A @ 100%
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 ₂	0,8 Ø mm		
Ø Electrode	1,6 + 4 Ø mm		
Electrode type	6013 rutile - 7018 basic		
Insulatin	H		
Protection degree	IP23S		
Dimensions (LxWxH)	450x840x710 mm		
Box (LxWxH)	365x895x650 mm		
Weight gross/net	32 / 30 Kg		
Power source part number	99820061		
KIT part number	99820061K		


INCLUDED WITH KIT VERSION · 99820061K

Power source	99820061 · Puma 256 (No accessories)
MIG torch	23000494 · ErgoPlus MIG 25 · 3m
Ground cable	43210253 · 25mm ² · 3m
Pressure regulator	22905049 · mini CO ₂ /Argon · 2 manometers
Adaptor for gas bottle	22910014

OPTIONAL

TIG torch	23020154 · 26V · 4m
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PUMA 278

Input voltage	(3ph) 400V ± 10% · 50/60Hz
	MIG
Power 60%	4,8 KW
U ₀	30 V
Amp Min-Max	30 ÷ 250A
Duty cycle 40°C	250A @ 35% 190A @ 60% 150A @ 100%
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 ₃	0,8 Ø mm
Insulatin	H
Protection degree	IP23S
Dimensions (LxWxH)	450x840x710 mm
Box (LxWxH)	365x895x650 mm
Weight gross/net	32 / 30 Kg
Power source part number	99825017A
KIT part number	99825017KA



INCLUDED WITH KIT VERSION · 99825017KA

Power source	99825017A · Puma 278 (No accessories)
MIG torch	23000494 · ErgoPlus MIG 25 · 3m
Ground cable	43210253 · 25mm ² · 3m
Pressure regulator	22905049 · mini CO ₂ /Argon · 2 manometers
Adaptor for gas bottle	22910014



PUMA 298

Input voltage	(3ph) 400V ± 10% · 50/60Hz		
	MIG	MMA solo rutile	TIG
Power 60%	6 KW	6 KW	5,8 KW
U ₀	35 V	54 V	54 V
Amp Min-Max	30 ÷ 290A	20 ÷ 250 A	10 ÷ 290 A
Duty cycle 40°C	290A @ 35% 220A @ 60% 170A @ 100%	250A @ 35% 190A @ 60% 150A @ 100%	290A @ 35% 220A @ 60% 170A @ 100%
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 ₃	0,8 Ø mm		
Ø Electrode	1,6 ÷ 5 Ø mm		
Electrode type	6013 rutile		
Insulatin	H		
Protection degree	IP23S		
Dimensions (LxWxH)	450x840x710 mm		
Box (LxWxH)	365x895x650 mm		
Weight gross/net	37 / 35 Kg		
Power source part number	99825016		
KIT part number	99825016K		



INCLUDED WITH KIT VERSION · 99825016K

Power source	99825016 · Puma 298 (No accessories)
MIG torch	23000494 · ErgoPlus MIG 25 · 3m
Ground cable	43210254 · 35mm ² · 3m
Pressure regulator	22905049 · mini CO ₂ /Argon · 2 manometers
Adaptor for gas bottle	22910014

OPTIONAL

TIG torch	23020154 · 26V · 4m
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PLASMA CUTTING

◦ PLASMA CUTTING



	PART NUMBER	AMP MAX	INPUT VOLTAGE	COMPRESSOR	MAX CUT / SEVERANCE
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%	▪	10 mm

PC 33	
Plasma torch	PT40
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	2,8 KVA
U_o	310 V
Amp Min-Max	12 ÷ 28 A
Duty cycle 40°C	28A @ 30% 12A @ 100%
Severance	10 mm
Quality cutting	8 mm
Air pressure	4 - 5 bar
Air capacity	100 l/min
Insulation	H
Protection degree	IP22S
Dimensions (LxWxH)	155x430x320 mm
Box (LxWxH)	260x560x355 mm
Weight gross/net	10,6 / 9,7 kg
Part number	99830024

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.



INCLUDED	
Plasma torch	23010070 · PT40 · 4m
Ground cable	43210150 · 6mm² · 4m
CONSUMABLE KIT INCLUDED	
Contact tip	23015186 · Ø 0,8 mm · 20-30A
Contact tip	23015189 · Ø 0,65 mm · 10-20A
Electrode	23015187



PC 43	
Plasma torch	PT40
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power 60%	3,3 KVA
U_o	350 V
Amp Min-Max	15 ÷ 40 A
Duty cycle 40°C	40A @ 20% 25A @ 60% 20A @ 100%
Severance	15 mm
Quality cutting	13 mm
Air pressure	4 - 5 bar
Air capacity	100 l/min
Insulation	H
Protection degree	IP22S
Dimensions (LxWxH)	155x430x320 mm
Box (LxWxH)	260x560x355 mm
Weight gross/net	11,8 / 10,8 kg
Part number	99830019

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.



INCLUDED	
Plasma torch	23010070 · PT40 · 4m
Ground cable	43210150 · 6mm² · 4m
CONSUMABLE KIT INCLUDED	
Contact tip	23015224 · Ø 0,9 mm · 30-40A
Contact tip	23015186 · Ø 0,8 mm · 20-30A
Contact tip	23015189 · Ø 0,65 mm · 10-20A
Electrode	23015187



PC COMBI 302K

Plasma torch	PT40C	
Input voltage	(1ph) 230V ± 10% · 50/60Hz	
Power 60%	2,5/3 KVA	
U₀	310 V	
	Internal compressor	External air
Amp Min-Max	12 ÷ 25 A	12 ÷ 28 A
Duty cycle 40°C	25A @ 40% 12A @ 100%	28A @ 30% 12A @ 100%
Severance	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 gross/net	20,4 / 19 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 ² · 4m

CONSUMABLE KIT INCLUDED

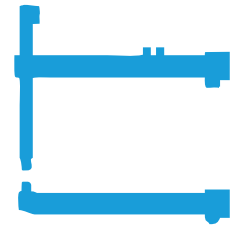
Contact tip	23015186 · Ø 0,8 mm · 20-30A
Contact tip	23015189 · Ø 0,65 mm · 10-20A
Electrode	23015187
Nozzle	23015188 · 6 fori (for external compressor)





SPOT WELDING

◦ SPOT WELDING



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

SPOT CAR EVO 4000

Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power 50%	2,5 KVA
Max peak power	13 KVA
Delayed fuse	T16 A
U_o	8 V
Amp. Out	2850 (2%) A
Amp. Out Max	3200 A
Insulation	H
Protection degree	IP22S
Dimensions (LxWxH)	250x370x280 mm
Box (LxWxH)	290x490x365 mm
Weight gross/net	23,8 / 23,3 kg
Part number	99500043

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


INCLUDED

Ground cable	99920108 · 50mm ² · 2,2m
Fast ground	99920122 · 16mm ² · 2m
Spot gun	99920218 · 50mm ² · 2m · 3 pin
Accessories box	99920525

OPTIONAL

Trolley	99900194A
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SPOT CAR EVO 5000

Input voltage	(1ph) 400V ± 10% · 50/60Hz
Power 50%	6 KVA
Max peak power	13 KVA
Delayed fuse	T20 A
U_o	7,5 V
Amp. Out	3600 (3,5%) A
Amp. Out Max	5000 A
Insulation	H
Protection degree	IP22S
Dimensions (LxWxH)	250x370x280 mm
Box (LxWxH)	290x490x365 mm
Weight gross/net	29,7 / 28,7 kg
Part number	99500044

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


INCLUDED

Ground cable	99920216 · 70mm ² · 2,2m
Fast ground	99920122 · 16mm ² · 2m
Spot gun	99920223 · 70mm ² · 2m · 3 pin
Accessories box	99920525

OPTIONAL

Trolley	99900194A
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	SPOT CAR ALU 33	SPOT CAR ALU 66
Input voltage (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Fuse	T6,3 A	T6,3 A
V _o	< 20 V	< 20 V
C	33000 µF	66000 µF
E	650 Joule max	1500 Joule max
T _s	1 ms	1,5 ms
Alu studs Ø	3 - 6 mm	3 - 8 mm
Dimensions (LxWxH)	250x370x280 mm	250x370x280 mm
Box (LxWxH)	290x560x400 mm	290x560x400 mm
Weight gross/net	16 / 15 kg	18 / 16,9 kg
Part number	99500039	99500040

Spot Car Alu is a power source for capacitor discharge welding of studs from M3 to M8. Particularly suitable for quick repairs on aluminum bodywork. Controlled by a microprocessor. It is equipped with an advanced safety system that allows the discharge of the capacitor only when in contact with the piece.



INCLUDED	
Fast Gun + Ground cable	99920500 · 3m · 3 pin
Accessories box	99920134
OPTIONAL	
Trolley	99900194A

	SPOTWELD 21	SPOTWELD 22E
Input voltage. (1ph)	230V ± 10% · 50/60Hz	230V ± 10% · 50/60Hz
Delayed fuse	16 A	25 A
Power 50%	1,3 KVA	1,6 KVA
Spot current	3800 (1,5%) Max A	6900 (1,5%) Max A
↓ ↑ Max.	1 + 1 mm	2 + 2 mm
Spots / Thickness	300 / 1 + 1 N°/mm	300 / 1 + 1 N°/mm
U _o Max.	2 V	2,5 V
Power max.	6 KW	13 KW
Dimensions (LxWxH)	100x440x185 mm	100x440x185 mm
Box (LxWxH)	165x455x340 mm	165x455x340 mm
Weight gross/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.





BATTERY CHARGERS & STARTERS

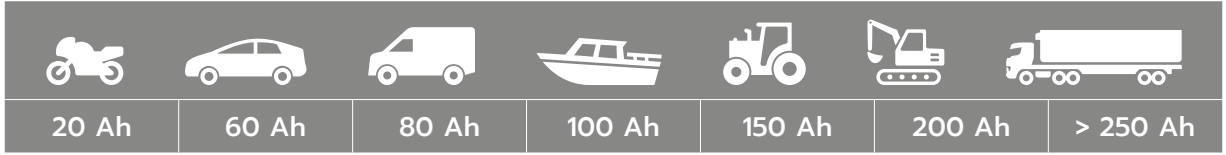
	PART NUMBER	INPUT VOLTAGE	BATTERY VOLTAGE	CHARG POSITIONS	FLOAT CHARGE	TIMER	AMMETER	CPS	LEAD BATTERY	LIQUID CALCIUM	LIQUID AGM	START / STOP	GEL SEALED	LiFePO ₄
VOYAGER 4	99000086	1ph 230V	6/12	9	■	■	■		■	■	■	■	■	■
VOYAGER 8	99000087	1ph 230V	12/24	9	■	■	■		■	■	■	■	■	■
VOYAGER 16	99000088	1ph 230V	12/24	9	■	■	■		■	■	■	■	■	■
VOYAGER 25	99000089	1ph 230V	12/24	9	■	■	■		■	■	■	■	■	■
DISCOVERY MOTO	99000076	1ph 230V	12	8	■				■	■	■	■	■	
DISCOVERY 60	99000074	1ph 230V	6/12	8	■		■		■	■	■	■	■	■
DISCOVERY 120 PLUS	99000083	1ph 230V	12/24	8	■		■		■	■	■	■	■	■
DISCOVERY 250	99000082	1ph 230V	12/24	8	■		■		■	■	■	■	■	■
EXPLORER 120	99000084	1ph 230V	12	8	■	■	■		■	■	■	■	■	■
EXPLORER 130	99000085	1ph 230V	12	8	■	■	■		■	■	■	■	■	■
PROGRESS 14	99000067	1ph 230V	6/12	2			■		■					
PROGRESS 17	99000068	1ph 230V	12/24	2			■		■					
PROGRESS 20	99000069	1ph 230V	12/24	2			■		■					
ARTIK 22	99000077	1ph 230V	12/24	4			■		■					
ARTIK 33	99000072	1ph 230V	12/24	4			■		■					

BATTERY CHARGERS & 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 ₄
PROGRESS 25	99000031	1ph 230V	6/12/24	6			▪		▪					
PROGRESS 35B	99000040	1ph 230V	6/12/24/36/48	12			▪		▪					
AUTOMATIC 30	99000066	1ph 230V	12/24	∞	▪		▪		▪	▪	▪	▪	▪	
SPEEDY 150	99005051	1ph 230V	12	2 + boost			▪		▪					
SPEEDY 250	99005052	1ph 230V	12/24	2 + boost			▪		▪					
SPEEDY 430	99005031	1ph 230V	12/24	4 + boost			▪		▪					
RAPID 280	99005040	1ph 230V	12	2 + boost			▪		▪					
RAPID 380	99005041	1ph 230V	12/24	2 + boost			▪		▪					
RAPID 480	99005053	1ph 230V	12/24	6 + boost			▪		▪					
SPRINT CAR 341	99010046	1ph 230V	12/24	4 + boost			▪		▪					
SPRINT CAR 441	99010047	1ph 230V	12/24	4 + boost			▪		▪					
SPRINT CAR 540	99010041	1ph 230V	12/24	6 + boost		▪	▪		▪					
SPRINT CAR 640	99010030	1ph 230V	12/24	6 + boost		▪	▪		▪					
AUTOSTAR 300	99005043	1ph 230V	12	2 + boost			▪	▪	▪					
AUTOSTAR 500	99005044	1ph 230V	12/24	6 + boost			▪	▪	▪					
AUTOSTAR 701	99010037	1ph 230V	12/24	6 + boost		▪	▪	▪	▪					
AUTOSTAR 1001	99010038	3ph 230/400V	12/24	14 + boost		▪	▪	▪	▪					
AUTOSTAR 1300	99010042	3ph 230/400V	12/24	12 + boost		▪	▪	▪	▪					
AUTOSTAR 2000	99010043	3ph 230/400V	12/24	12 + boost		▪	▪	▪	▪					
DIGICAR 540E	99010049	1ph 230V	12/24	4 + boost	▪	▪	▪	▪	▪	▪	▪	▪	▪	
DIGICAR 1100E	99010051	1ph 230V	12/24	4 + boost + supply	▪	▪	▪	▪	▪	▪	▪	▪	▪	
BOOSTY 25	99005068	1ph 230V	12	boost										
BOOSTY 31	99005064	1ph 230V	12	boost										
BOOSTY TRUCK 12/24	99005065	1ph 230V	12/24	boost										
POWER UP 8.0	99005067	1ph 230V	12	boost										
SUPER POWER 13.0	99005069	1ph 230V	12	boost										
BATTERY TESTER T5	99090038	1ph 230V	-	tester										
BATTERY TESTER T13	99090070	1ph 230V	-	tester										

PRODUCT GUIDE LINE

- Max charge capacity (15Ah)
- Maintenance
- Boost capacity
- 5min Fast charge + Boost

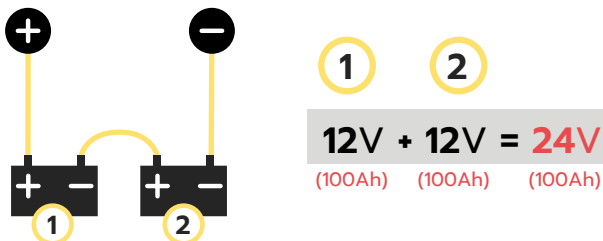


CHARGERS

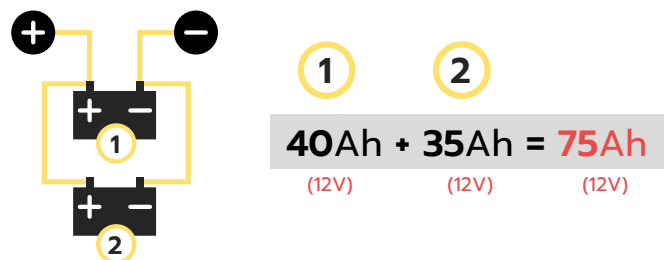


BATTERY CONNECTION

SERIAL CONNECTION

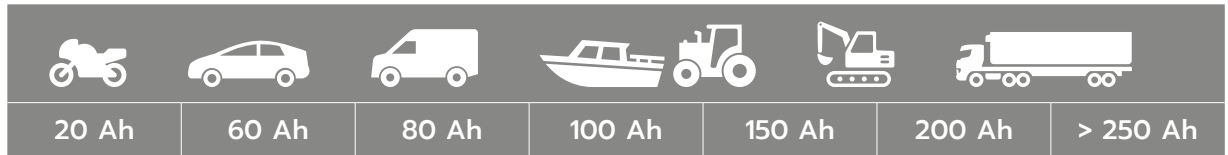


PARALLEL CONNECTION

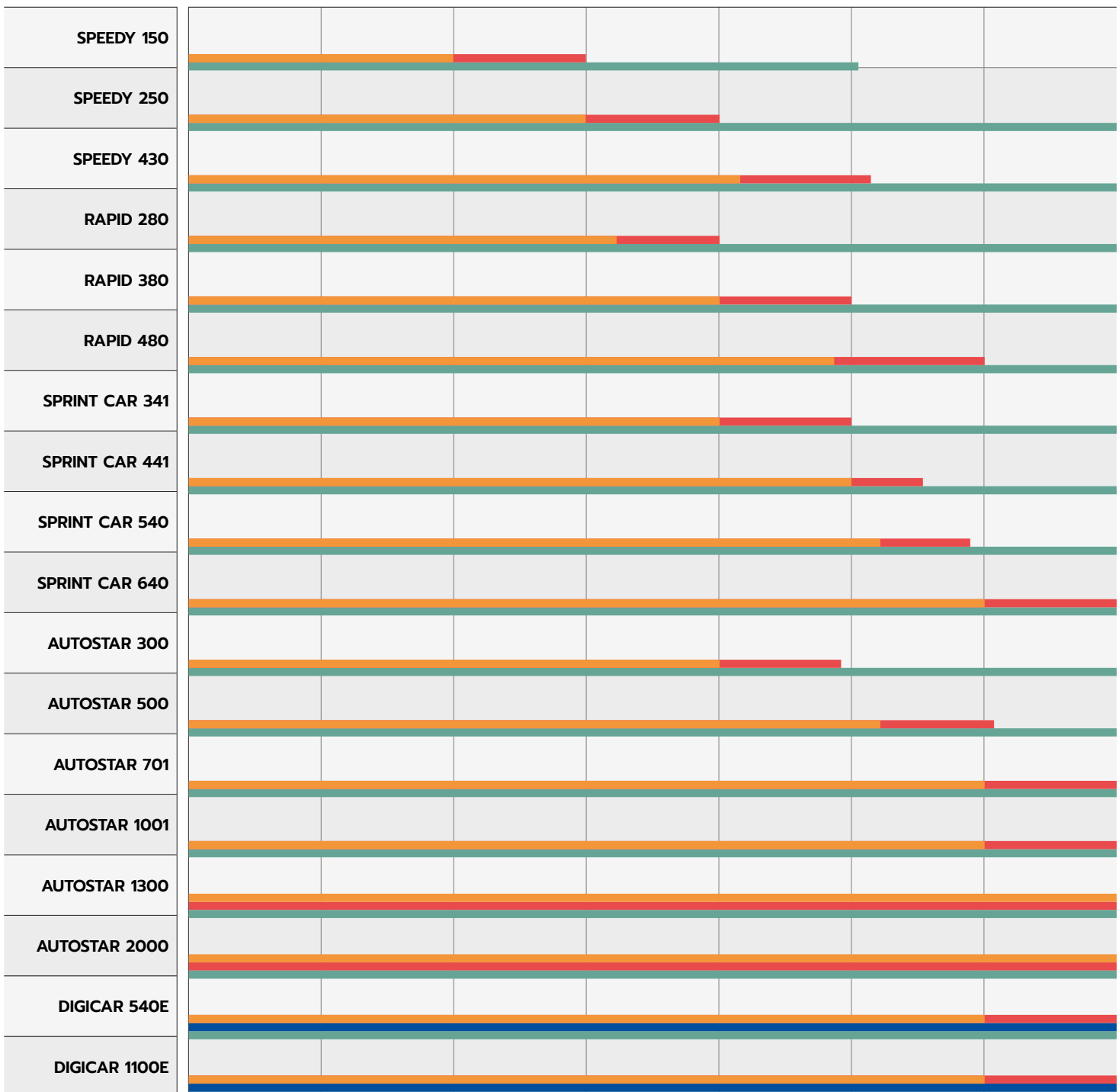


PRODUCT GUIDE LINE

- Max charge capacity (15Ah)
- Maintenance
- Boost capacity
- 5min Fast charge + Boost



CHARGERS & STARTERS



VOYAGER 4

Input voltage	(1ph) 230V ± 10% · 50/60Hz	
Battery voltage	6 V	12 V
Charging current	1A / 4A	1A / 4A
Charge capacity (12V)	5-80Ah (LiFePO ₄ , 1-80Ah)	
Maintenance capacity (12V)	5-120Ah (LiFePO ₄ , 1-120Ah)	
Charging positions	9	
Functions	Battery tester · Desulphation	
Protections	Reverse polarity · Short circuit Overheating · Overload Over-temperature · Spark protection	
DC power supply	N/A	
Protection degree	IP65	
Dimensions (LxWxH)	184 x 91 x 58 mm	
Gross weight	0,75 Kg	
Part number	99000086	

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 · LiFePO₄ · Reverse connection protection system · Easy to use · Charging maintenance optimization · Ergonomic design


VOYAGER 8

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

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 · LiFePO₄ · Reverse connection protection system · Easy to use · Charging maintenance optimization · Ergonomic design



DISCOVERY MOTO

Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	28 W
Battery voltage	12 V
Amp 60335-2-29	1,5 A
Rated ref. cap.	9/20 Ah 15h
Charging positions	-
Dimensions (LxWxH)	108x56x48 mm
Box (LxWxH)	165x65x110 mm
Weight gross/net	0,38 / 0,35 Kg
Part number	99000076

Range of 100% 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

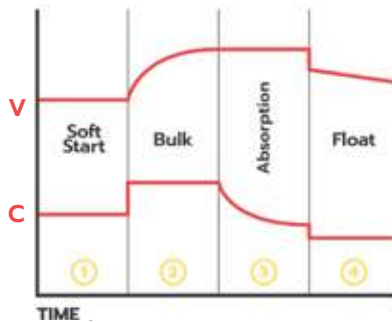
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	65 W
Battery voltage	6/12 V
Amp 60335-2-29	4 A
Rated ref. cap.	60 Ah 15h
Charging positions	4
Dimensions (LxWxH)	225x80x50 mm
Box (LxWxH)	285x185x60 mm
Weight gross/net	0,76 / 0,70 Kg
Part number	99000074

Range of 100% 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 LiFePO₄ 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

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 positions	9	
Dimensions (LxWxH)	235x100x60 mm	
Box (LxWxH)	315x200x73 mm	
Weight gross/net	1,1 / 1,0 Kg	
Part number	99000083	



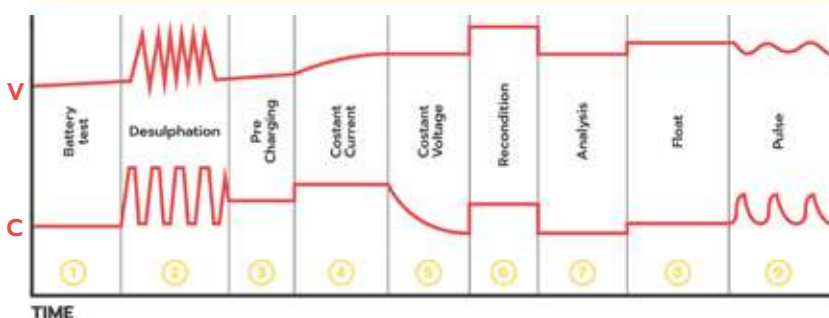
Range of 100% electronic battery charger with no output voltage spikes, which can damage the vehicles' circuit boards. Ideal for charging AGM, Ca/Ca, GEL, lead, Start/Stop and LiFePO₄ batteries. The user has the possibility of setting the charge voltage and current to various levels based on the models. 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 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 positions	9	
Dimensions (LxWxH)	295x125x75 mm	
Box (LxWxH)	340x215x90 mm	
Weight gross/net	2,0 / 1,9 Kg	
Part number	99000082	

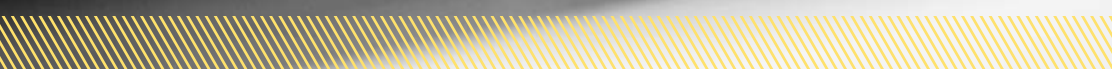


9 STEP AUTOMATIC FAST CHARGE

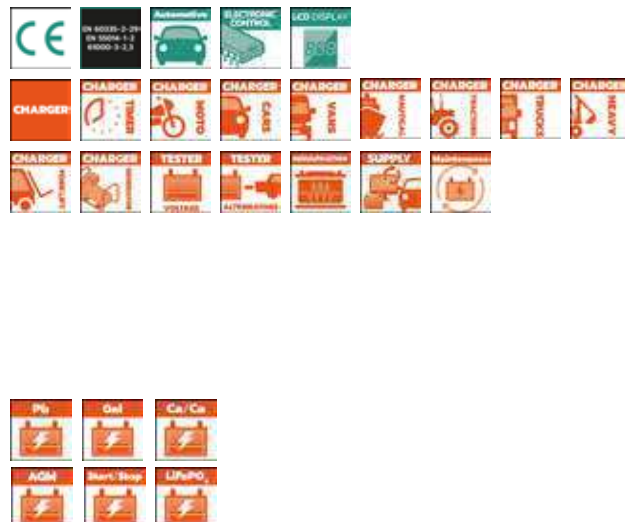


DISCOVERY 120 PLUS / DISCOVERY 250

- 1 Battery test
- 2 Desulphation
- 3 Pre charging
- 4 Constant current
- 5 Constant voltage
- 6 Recondition
- 7 Analysis
- 8 Float
- 9 Pulse



	EXPLORER 120	EXPLORER 130
Input voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 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 positions	∞	∞
Dimensions (LxWxH)	320x292x110 mm	330x130x282 mm
Box (LxWxH)	345x230x350 mm	405x215x385 mm
Weight gross/net	8,6 / 4,7 Kg	10,6 / 10,0 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.

PROGRESS 14

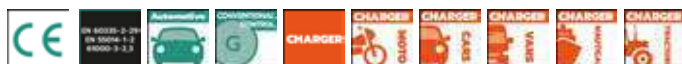
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	140 W
Battery voltager	6/12 V
Amp. Eff.	11 A
Amp 60335-2-29	7,5 A
Rated ref. cap.	112 Ah 15h
Charging positions	2
Dimensions (LxWxH)	200x260x175 mm
Box (LxWxH)	230x275x205 mm
Weight gross/net	4,2 / 3,1 Kg
Part number	99000067

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


PROGRESS 17

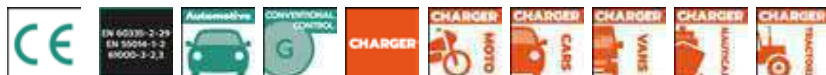
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	300 W
Battery voltager	12/24 V
Amp. Eff.	12,5 A
Amp 60335-2-29	8,5 A
Rated ref. cap.	128 Ah 15h
Charging positions	2
Dimensions (LxWxH)	200x260x175 mm
Box (LxWxH)	230x275x205 mm
Weight gross/net	5,2 / 4,1 Kg
Part number	99000068

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


PROGRESS 20

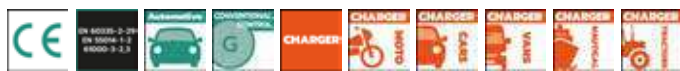
Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	390 W
Battery voltager	12/24 V
Amp. Eff.	16 A
Amp 60335-2-29	11 A
Rated ref. cap.	165 Ah 15h
Charging positions	2
Dimensions (LxWxH)	200x260x175 mm
Box (LxWxH)	230x275x205 mm
Weight gross/net	7 / 6,1 Kg
Part number	99000069

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	(1ph) 230V ± 10% · 50/60Hz
Power	430 W	600 W
Battery voltager	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	225 Ah 15h
Charging positions	4	4
Dimensions (LxWxH)	235x220x335 mm	235x220x335 mm
Box (LxWxH)	295x255x390 mm	295x255x390 mm
Weight gross/net	8,8 / 8,1 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.



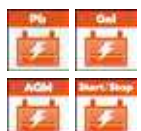
	PROGRESS 25	PROGRESS 35B
Input voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz
Power	620 W	1830 W
Battery voltager	6/12/24 V	6/12/24/36/48 V
Amp. Eff.	25 A	38 A
Amp 60335-2-29	17 A	25 A
Rated ref. cap.	255 Ah 15h	375 Ah 15h
Charging positions	6	12
Dimensions (LxWxH)	245x250x435 mm	245x250x435 mm
Box (LxWxH)	280x285x465 mm	280x285x465 mm
Weight gross/net	12,8 / 12,2 Kg	22,8 / 22,2 Kg
Part number	99000031	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 voltager	12/24 V
Amp. Eff.	30 A
Amp 60335-2-29	20 A
Rated ref. cap.	600 Ah 15h
Charging positions	∞
Dimensions (LxWxH)	235x220x335 mm
Box (LxWxH)	295x255x390 mm
Weight gross/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.



SPEEDY 150

Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	190 W
Battery voltage	12 V
Amp. eff.	15 A
Amp. 60335-2-29	11 A
Max boost current	120 Acc
Amp 1/C	85 A
Rated ref. cap.	165 Ah 15h
Charging positions	2 + Boost
Dimensions (LxWxH)	200x260x175 mm
Box (LxWxH)	230x275x205 mm
Weight gross/net	6,4 / 6,0 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.


SPEEDY 250
SPEEDY 430

	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz
Input voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz
Power	650 W	1000 W
Battery voltage	12/24 V	12/24 V
Amp. eff.	27 A	45 A
Amp. 60335-2-29	18 A	30 A
Max boost current	200 Acc	350 Acc
Amp 1/C	135 A	260 A
Rated ref. cap.	270 Ah 15h	330 Ah 15h
Charging positions	2 + Boost	3 + Boost
Dimensions (LxWxH)	235x220x335 mm	245x250x435 mm
Box (LxWxH)	295x255x390 mm	280x285x465 mm
Weight gross/net	11,4 / 10,7 Kg	17,0/ 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.



	RAPID 280	RAPID 380
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Input voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 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	230 Acc	280 Acc
Amp 1/C	160 A	200
Rated ref. cap.	270 Ah 15h	270 Ah 15h
Charging positions	2 + Boost	2 + Boost
Dimensions (LxWxH)	235x220x335 mm	235x220x335 mm
Box (LxWxH)	295x255x390 mm	295x255x390 mm
Weight gross/net	13,4 / 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.



	RAPID 480
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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.	450 Ah 15h
Charging positions	6 + Boost
Dimensions (LxWxH)	245x250x435 mm
Box (LxWxH)	280x285x465 mm
Weight gross/net	20,6 / 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.



	SPRINT CAR 341	SPRINTCAR 441
Input voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 230V ± 10% · 50/60Hz
Power	1080 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	340 Acc	380 Acc
Amp 1/C	200 A	260 A
Rated ref. cap.	375 Ah 15h	450 Ah 15h
Charging positions	3 + Boost	3 + Boost
Dimensions (LxWxH)	395x260x770 mm	395x260x770 mm
Box (LxWxH)	360x280x660 mm	360x280x660 mm
Weight gross/net	19,0 / 18,1 Kg	22,0 / 21,1 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.



	SPRINT CAR 540	SPRINT CAR 640
Input voltage	(1ph) 230V ± 10% · 50/60Hz	(1ph) 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	550 Acc
Amp 1/C	330 A	400 A
Rated ref. cap.	525 Ah 15h	600 Ah 15h
Charging positions	6 + Boost	6 + Boost
Dimensions (LxWxH)	465x350x840 mm	465x350x840 mm
Box (LxWxH)	330x395x790 mm	330x395x790 mm
Weight gross/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

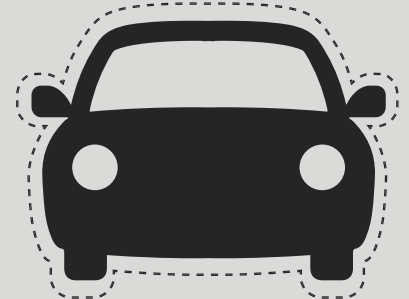
The battery chargers equipped with **CPS Safe Car system** allow the charge or starting (boosting) of the vehicles in safety mode with the goal to preserve the integrity of both the battery and the electronics on board.

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	(1ph) 230V ± 10% · 50/60Hz
Power	300 W	890 W
Battery voltage	12 V	12/24 V
Amp. eff.	25 A	37 A
Amp. 60335-2-29	20 A	30 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 positions	2 + Boost	6 + Boost
Dimensions (LxWxH)	345x250x280 mm	345x250x280 mm
Box (LxWxH)	440x275x255 mm	440x275x255 mm
Weight gross/net	14,6 / 13,7 Kg	19,6 / 18,3 Kg
Part number	99005043	99005044

Portable battery chargers and starters. Equipped with charging current 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

Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	1800 W
Battery voltage	12/24 V
Amp. eff.	75 A
Amp. 60335-2-29	50 A
Max boost current	550 Acc
Amp 1/C	400 A
Rated ref. cap.	600 Ah 15h
Charging positions	6 + Boost
Dimensions (LxWxH)	465x350x840 mm
Box (LxWxH)	420x350x770 mm
Weight gross/net	32,6 / 31,3 Kg
Part number	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

Input voltage	(3ph) 230/400V ± 10% 50/60Hz
Power	2200 W
Battery voltage	12/24 V
Amp. eff.	90 A
Amp. 60335-2-29	60 A
Max boost current	980 Acc
Amp 1/C	560 A
Rated ref. cap.	1350 Ah 15h
Charging positions	14 + Boost
Dimensions (LxWxH)	465x350x840 mm
Box (LxWxH)	420x350x770 mm
Weight gross/net	55,2 / 53,7 Kg
Part number	99010038

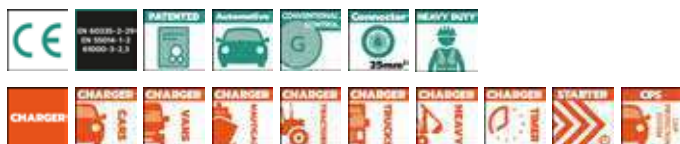
Battery chargers and starters on wheels. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car 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	1280 Acc
Amp 1/C	850 A
Rated ref. cap.	1800 Ah 15h
Charging positions	12 + Boost
Dimensions (LxWxH)	575x330x770 mm
Box (LxWxH)	450x380x705 mm
Weight gross/net	70,6 / 69,2 Kg
Part number	99010042

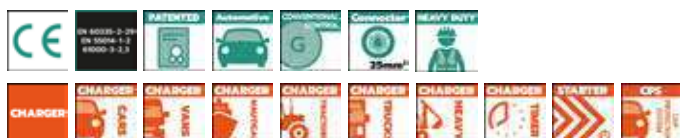
Battery chargers and starters on wheels. Equipped with charging current control selector and charging current level ammeter. Protected with internal fuse protection against short-circuits or polarity reversal and thermostatic protection against protracted boostings. They are equipped with C.P.S. (car 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.	2250 Ah 15h
Charging positions	12 + Boost
Dimensions (LxWxH)	575x330x770 mm
Box (LxWxH)	450x380x705 mm
Weight gross/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: INTELLIGENT CHARGER/STARTER

The 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.

DIGICAR 540E	
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	380 Acc
Amp 1/C	260 A
Rated ref. cap.	810 Ah 15h
Charging positions	4 + Boost
Dimensions (LxWxH)	395x260x770 mm
Box (LxWxH)	360x280x660 mm
Weight gross/net	22,6 / 21,7 Kg
Part number	99010049



DIGICAR 1100E + SUPPLY

Input voltage	(1ph) 230V ± 10% · 50/60Hz
Power	2400 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.	5000 Ah 15h
Charging positions	4 + Boost + Supply
Dimensions (LxWxH)	465x350x840 mm
Box (LxWxH)	420x350x770 mm
Weight gross/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


INCLUDED

Fuse spare parts KIT	99090032 · 500 A · 55mm
Smart Charger	99090048 · 3.8 Ah

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.

	BOOSTY 25	BOOSTY 31
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 (cycles)	400 Cycles	400 Cycles
Batteries	1	1
Sealed battery	▪	▪
Voltage spikes protection	▪	▪
ABS shock-proof cases	▪	▪
Automatic charger	▪	▪
Lighter socket cord	▪	▪
Trolley	-	-
Buzzer	-	-
Completely isolated clamps	▪	▪
Cable diameter	25 mm ²	25 mm ²
Length of cables	111 cm	111 cm
Dimensions (LxWxH)	430x160x335 mm	430x160x335 mm
Box (LxWxH)	470x180x370 mm	470x180x370 mm
Weight gross/net	11,2 / 11,0 kg	13,6 / 13,0 kg
Part number	99005068	99005064





INCLUDED	
Fuse spare parts KIT	99090032 · 500 A · 55mm
Smart Charger	99090048 · 3.8 Ah

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.

BOOSTY TRUCK 12/24

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 (cycles)	400 Cycles	
Batteries	2	
Sealed battery	▪	
Voltage spikes protection	▪	
ABS shock-proof cases	▪	
Automatic charger	▪	
Lighter socket cord	▪	
Trolley	▪	
Buzzer	▪	
Completely isolated clamps	▪	
Cable diameter	50 mm ²	
Length of cables	165 cm	
Dimensions (LxWxH)	370x285x465 mm	
Box (LxWxH)	380x295x485 mm	
Weight gross/net	27,6 / 26,8 kg	
Part number	99005065	



POWER UP 8.0

Input	5V ≙ 2A
Output	5V ≙ 3A · 9V ≙ 2A
Output quick charge	5V ≙ 2.1A
Output jump start	12V
Battery capacity	8000 mAh
Full charging time	± 2h
Start current	200 A
Peak current	500A
Operating temperature	-20°C ~ 60°C
Dimensions (LxWxH)	156 x 83 x 29 mm
Weight gross/net	0,92 / 0,80 Kg
Part number	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


SUPER POWER 13.0

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
Dimensions (LxWxH)	152 x 81 x 32 mm
Weight gross/net	1,2 / 0,9 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



	T5	T13
Case dimensions (LxWxH)	320x105x285 mm	310x95x275 mm
Dimensions (LxWxH)	320x105x285 mm	320x105x285 mm
Weight gross/net	2,0 / 1,3 kg	1,8 / 1,6 kg
Part number	99090038	99090070

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 T13

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








T13





SAFETY

GoodPRO®
@vethic®

HELIX

SAFETY

WELDING MASKS

	PART NUMBER	DESCRIPTION	OPTIC CLASS
STORM VISION 4.1 + HELVI BAG XL	99900269	Welding mask with respiartor · 4 Sensors	1 / 1 / 1 / 1
VISION 4.1 + HELMET BAG	21905147K	Welding mask · 4 Sensors	1 / 1 / 1 / 1
SKY 4.0 + HELMET BAG	21905179K	Welding mask · 4 Sensors	1 / 1 / 1 / 2
VISION 2.1 + HELMET BAG	21905100K	Welding mask · 2 Sensors	1 / 1 / 1 / 2
SKY 2.0 + HELMET BAG	21905125K	Welding mask · 2 Sensors	1 / 1 / 1 / 2
MIRAGE	21905182	Manual welding mask · DIN 11	-
HELMET BAG	21905181	Practical bag for welding masks	-

WELDING CLOTHING

	PART NUMBER	DESCRIPTION	AVAILABLE SIZES (European)
JACKET	21905135	Welding jacket	48 - 50 - 52 - 54 - 56
THROUSERS	21905136	Welding throusers	48 - 50 - 52 - 54 - 56
TIG GLOVES	21905133	Professional welding gloves	09 - 10
MIG/MMA GLOVES	21905134	Professional welding gloves	10 - 11
SPLIT LEATHER GLOVES	21905177	Professional welding gloves	One-size-fits-all
APRON	21905176	Welding apron	One-size-fits-all

FUME EXTRACTORS

	PART NUMBER	HOSE TYPE	Ø HOSE	HOSE LENGTH	FILTRATION EFFICIENCY	NOISE LEVEL
PFE	99900230	Flexible	55 mm	2000 mm	99 %	72 dBA
MFE (NO HOSE)	99900299	-	-	-	99 %	74 dBA
MFE HD (NO HOSE)	99900300	-	-	-	99,5 %	<= 70 dBA
BRACCIO ARMOTECH	99900301	Rigid	160 mm	3000 mm	-	-
BRACCIO ARMOFLEX	99900302	Flexible	160 mm	3000 mm	-	-

4 SENSORS · STORM VISION 4.1 + HELVI BAG XL
99900269

 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**


TIG · MIG · MMA · PLASMA · GRINDING
SPARE PARTS

EXTERNAL GLASS	21905076	133 x 114 x 1 mm
INTERNAL GLASS	21905079	96,9 x 65,7 x 1 mm
STANDARD BATTERY	21905155	-
EXTENDED BATTERY	21905156	-
EXTERNAL PROTECTION	21905159	-
FILTER PROTECTION	21905158K	(5 pieces KIT)
PARTICULATE FILTER	21905157	-
GAS FILTER	21905161	-

4 SENSORS · VISION 4.1 + HELMET BAG

21905147K



TRUE
COLORS

Optical Class **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**



TIG · MIG · MMA · PLASMA · GRINDING

SPARE PARTS

EXTERNAL GLASS	21905076	133 x 114 x 1 mm
INTERNAL GLASS	21905079	96,9 x 65,7 x 1 mm

4 SENSORS · SKY 4.0 + HELMET BAG

21905179K



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**



TIG · MIG · MMA · PLASMA · GRINDING

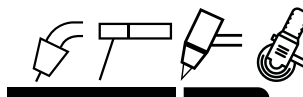
SPARE PARTS

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

2 SENSORS · VISION 2.1 + HELMET BAG
21905100K

TRUE COLORS

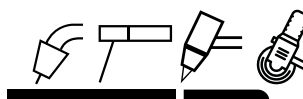
Optical Class **1/1/1/2**
 Filter size **110 x 90 x 9 mm**
 Viewing area **98 x 44 mm**
2 Sensors
 Light Shade **3.5**
 Darkness Shade **9 - 13**
 Grinding **YES**
 Protection Adjustment **Internal**, variable shade
 UV/IR Protection up to **DIN 16**
 Switching time from Light to Dark **1/16000s**
 Switching 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**


MIG · MMA · PLASMA · GRINDING
SPARE PARTS

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

2 SENSORS · SKY 2.0 + HELMET BAG
21905125K


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**


MIG · MMA · PLASMA · GRINDING
SPARE PARTS

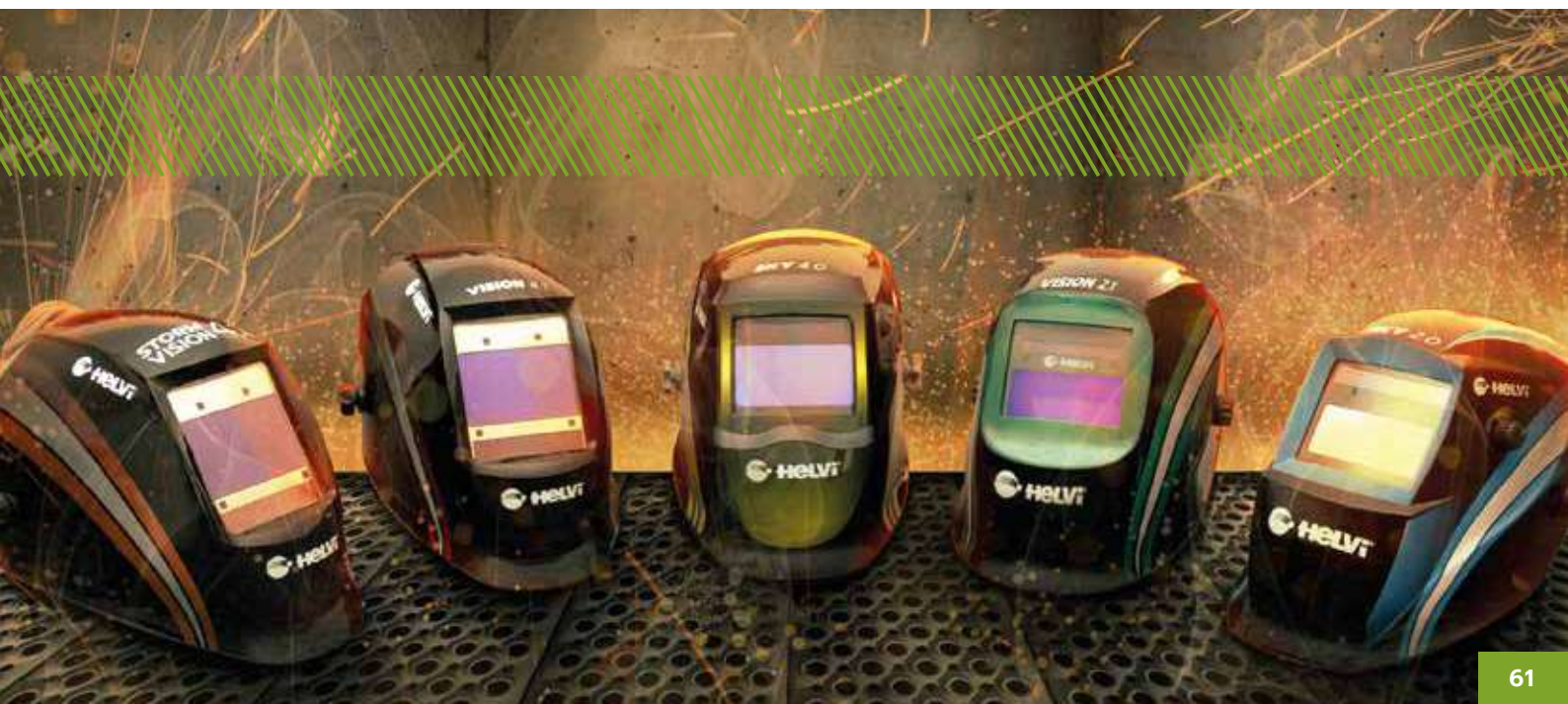
EXTERNAL GLASS	21905128	117 x 104 mm
INTERNAL GLASS	21905129	101 x 49 mm

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**


MIG · MMA · PLASMA · GRINDING
SPARE PARTS

EXTERNAL GLASS	21905184	110,5 x 93 mm
INTERNAL GLASS	21905183	110 x 90 x 5 mm

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/m², FL PROBAN® permanent treatment

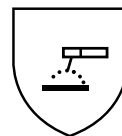
Performance was checked after 50 cycles of washing and are still certified the same.

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

1

3

2

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 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
Ø Hose	55 mm
Hose length	2000 mm
Motor power	1,1 KW
Airflow	250 m³/h
Extraction capacity	110 m³/h
Filter type	3 stages filter
Filtration efficiency	99%
Noise level	72 dBA
Dimensions (LxWxH)	520x255x470 mm (without hose)
Box (LxWxH)	800x600x450 mm
Weight gross/net	23/20 Kg
Part number	99900230


MFE · Mobile fume extractor

Input voltage	1ph · 230V 50Hz
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
Dimensions (LxWxH)	1100x523x830 mm
Box (LxWxH)	1150x550x1050 mm
Weight gross/net	80 / 70 Kg
Part number	99900299


MFE HD · Mobile fume extractor

Input voltage	1ph · 230V 50Hz
Motor power	1,1 KW
Airflow	2500 m³/h
Extraction capacity	1480 m³/h
Filter type	HEPA filter (Light-medium duty cycle)
Filtration efficiency	99.5%
Noise level	<= 70 dBA
Dimensions (LxWxH)	600x800x1200 mm
Box (LxWxH)	660x840x1380 mm
Weight gross/net	100 / 90 Kg
Part number	99900300



	ARMOTECH	ARMOFLEX
Hose	Rigid	Flexible
Ø Hose	160 mm	160 mm
Hose length	3000 mm	3000 mm
Box (LxWxH)	1610x550x380 mm	1610x550x380 mm
Gross weight	21 Kg	16 Kg
Part number	99900301	99900302



ARMOTECH



ARMOFLEX

3 STAGES FILTER (PFE)



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

SPARE PARTS

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

3 STAGES HEPA FILTER (MFE · MFE HD)



- 1 **METALLIC FILTER CELL + CORRUGATED**
Material: Aluminum fiber
Regeneration: Yes, washable

Material: Polyester fiber
Regeneration: Yes, by shacking
- 2 **RIGID HEPA GLASS MICROFIBER POCKET FILTER**
Material: Glass fiber EU12
Regeneration: NO (needs replacement)

MFE SPARE PARTS

- | | | |
|---|----------|---------------------------|
| 1 | 99900305 | Dimensions: 490x592x48 mm |
| 2 | 99900238 | Dimensions: 490x592x48 mm |

MFE HD SPARE PARTS

- | | | |
|---|----------|---------------------------|
| 1 | 99900306 | Dimensions: 490x592x98 mm |
| 2 | 99900238 | Dimensions: 490x592x98 mm |

OPTIONAL

- | | |
|----------|--|
| 99900241 | CARBON FILTER (Couple)
Dimensions: 292x648x48 mm |
|----------|--|



ACCESSORIES AND SPARE PARTS

○ ACCESSORIES & SPARE PARTS









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GENERAL ACCESSORIES
BLISTER

	21915002B5	Electrode blister • Rutile • 2,0 mm • 30 pcs/blister • sold in carton box of 5 blisters
	21915003B5	Electrode blister • Rutile • 2,5 mm • 20 pcs/blister • sold in carton box of 5 blisters
	21915006B5	Electrode blister • Rutile • 3,25 mm • 15 pcs/blister • sold in carton box of 5 blisters
	21910109B5	Wire reel blister • Flux core • \varnothing 0,9 mm • 1,0 Kg • sold in carton box of 5 blisters
	21910108B5	Wire reel blister • Mild Steel SG2 • \varnothing 0,8 mm • 1,0 Kg • sold in carton box of 5 blisters
	21910047B5	Wire reel blister • AlMg5 5356 • \varnothing 0,8 mm • 0,5 Kg • sold in carton box of 5 blisters
	21910088B5	Wire reel blister • AISi5 4043 • \varnothing 0,8 mm • 0,5 Kg • sold in carton box of 5 blisters
	21910089B5	Wire reel blister • AISi5 4043 • \varnothing 1,0 mm • 0,5 Kg • sold in carton box of 5 blisters
	21910111B5	Wire reel blister • Innox 308L Si • \varnothing 0,8 mm • 0,5 Kg • sold in carton box of 5 blisters
	21910056B5	Wire reel blister • CuSi3 • \varnothing 0,8 mm • 0,9 Kg • sold in carton box of 5 blister



GENERAL ACCESSORIES

MAGNETIC HOLDERS

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

GENERAL ACCESSORIES

BORSE HELVI

	21905178K	HELVI Bag M Dim. 450x220x270 mm	Sparc Range Galileo 179 · 219
	21905139K	HELVI Bag XL Dim. 540x225x250 mm	Galileo TIG 219 HF

WELDING STATION

	99900309	Welding station
--	-----------------	-----------------

GENERAL ACCESSORIES

TROLLEYS

	AUTOSTAR 300	AUTOSTAR 500	EXPLORER 120	GALILEO TIG 211 Easy AC/DC	FOX 165	FOX 185	FOX 191	FOX 211	SPOTCAR 4000	SPOTCAR 5000	SPOTCAR ALU 33	SPOTCAR ALU 66
TROLLEY 1	•	•							•	•	•	•
TROLLEY 2 · EXPLORER			•									
TROLLEY 3					•	•	•	•				
TROLLEY 4 · HD AIR				•	•	•	•	•				

TROLLEY 1		TROLLEY 2 · EXPLORER		TROLLEY 3		TROLLEY 4 · HD AIR	
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)	950 x 435 x 975 mm
Box	490 x 220 x 795 mm	Box	490 x 220 x 795 mm	Box	380 x 365 x 1065 mm	Box	380 x 365 x 1065 mm
Part number	99900194A	Part number	99900260K	Part number	99900171A	Part number	99900258

CHARGERS & STARTERS ACCESSORIES & SPARE PARTS
SPARE PARTS

	22220044	Fuse • 80 A • (min 5 pcs)	Speedy 150
	22220047	Fuse • 100 A • (min 5 pcs)	Speedy 250
	22220048	Fuse • 120 A • (min 5 pcs)	Rapid 280 · 380
	22220031	Fuse • 75 A • (min 5 pcs)	Speedy 430
	22220030	Fuse • 100 A • (min 5 pcs)	Rapid 480 · Autostar 500 (x2)
	22220029	Fuse • 120 A • (min 5 pcs)	Autostar 300 · Sprint Car 341 · Digicar 450E
	22220008	Fuse • 200 A • (min 5 pcs)	Sprint Car 441 · 540 · Digicar 540E - 750E
	22220011	Fuse • 300 A • (min 5 pcs)	Sprint car 640 · Autostar 701 · Digicar 1100E
	22220067	Fuse • 400 A • (min 5 pcs)	Autostar 1001 · Autostar 2000 (x2)
	22220013	Fuse • 500 A • (min 5 pcs)	Autostar 1300
	99090032	Fuse • 500 A · 55mm	Boosty Range

ACCESSORIES



	04600065	Clamps for battery chargers (red + black) • KIT 40 A	Artik 15 - 22 · Progress 14 - 17 - 20 Automatic 15
	04600066	Clamps for battery chargers (red + black) • KIT 60 A	Automatic 18 - 30 · Speedy 150 - 250 Progress 25 · Artik 33
	04600067	Clamps for battery chargers (red + black) • KIT 120 A	Progress 35B · Sprint Car 341 - 441 Sprint Car 540 - 640 · Rapid 280 - 380 - 430 Digicar 450E - 540E - 750E - 1100E
	04600406	Clamps for battery chargers (red + black) • F2E	Autostar 300 - 500
	04600407	Clamps for battery chargers (red + black) • F12	Sprint Car 540 · Digicar 750E - Autostar 701 - 1001
	04600405	Clamps for battery chargers (red + black) • P280	Autostar 1300 - 2000

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








	99900037	Arc welding KIT • 16 mm² 3 + 2 mt · conn. 25 mm²	Sparc 146 - 186 - 226
	99900014	Arc welding KIT • 25 mm² 3 + 2 mt · conn. 25 mm²	Sparc 186 - 226
	99900099	Arc welding KIT • 25 mm² 3 + 2 mt · conn. 50 mm²	Galileo 179 - 219 - 201HF Galileo TIG 219HF - 211 Easy AC/DC
	99810021	Foot remote control 12 pins · 5 m	Galileo TIG 211 Easy AC/DC

MMA · TIG ACCESSORIES

GROUND CABLES & WELDING CABLES

	43210138K	Ground cable with clamp kit for conn. 25 mm² · 16 mm² · 2,0 mt	mini Fox 161 · Fox 165 - 185 - 191 Sparc 146 - 186 - 226 · Puma 191
	43210170K	Ground cable with clamp kit for conn. 50 mm² · 25 mm² · 2,0 mt	Galileo 179 - 219 · TIG 219 HF Galileo TIG 211 Easy AC/DC
	43210132K	Ground cable with clamp kit for conn. 50 mm² · 25 mm² · 3,0 mt	Fox 211 · Puma 256 - 278
	43210142K	Ground cable with clamp kit for conn. 50 mm² · 35 mm² · 3,0 mt	Puma 298
	43205028K	Welding cable with electrode holder conn. 25 mm² · 16 mm² · 3,0 mt	Sparc 186 - 226 · Puma 191 Fox 165 - 185 - 191
	43205049K	Welding cable with electrode holder conn. 50 mm² · 16 mm² · 3,0 mt	Fox 211
	43205040K	Welding cable with electrode holder conn. 50 mm² · 25 mm² · 3,0 mt	Galileo 179 - 219 · TIG 219 HF Fox 211 · Puma 256 - 298
	22110007	Earth clamp Type 200A · Kit 160 A - 180 A	Fox 165 - 185 - 191 · Sparc 146 · Puma 191
	22110033	Earth clamp Type 300A · Kit 250 A - 300 A	Sparc 186 - 226 Galileo 179 - 219 · Galileo TIG 219HF Fox 211 · Puma 256 - 278 - 298
	22110011	Electrod Holder Type 352 · Kit 140 A - 160 A	Sparc 146 · Fox 165
	22110010	Electrod Holder Type 202 · Kit 180 A - 250 A - 300 A	Sparc 186 - 226 - Fox 185 - 191 - 211 Galileo 179 - 219 · TIG 219HF Puma 191 - 256 - 278 - 298
	22100001	Plug · 25 mm²	-
	22100003	Plug · 50 mm²	-
	22100010	Plug · 95 mm²	-
	22100020	Connector adapter · 25-50 mm²	-
	10210057	Welding cable · 16mm² Lenght on demand	-
	10210059	Welding cable · 25mm² Lenght on demand	-

TIG · MIG/MAG ACCESSORIES
GAS WELDING

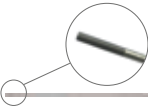
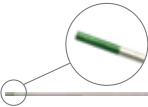



	22905114	Zero compensated Argon flowmeter regulator	Italy / England
	22905111	Pressure regulator Argon double stage with flowmeter	Italy / England
	22905090K	Pressure regulator ECO mini CO ₂ + gas bottle adapter Argon / CO ₂	Italy / England
	22905029K	Pressure regulator Maxi CO ₂ + gas bottle adapter Argon / CO ₂	Italy / England
	22905118	Pressure regulator Micro 130 bar for disposable cylinders	Fitting M10
	22905115K	Pressure regulator for disposable cylinders	Fitting M10
	21900001	Disposable gas cylinders CO ₂	Fitting M10
	21900002	Disposable gas cylinders Argon	Fitting M10
	21900003	Disposable gas cylinders Argon CO ₂	Fitting M10

TIG ACCESSORIES



ACCESSORIES · TIG TORCHES

	23020173	Tig 17V · 4 mt · with gas valve · conn. 25 mm ² KIT consumables \varnothing 1,6 mm	Fox 185 Puma 191
	23020159	Tig 17V · 4 mt · with gas valve · conn. 50 mm ² KIT consumables \varnothing 1,6 mm	Galileo 179 - 219
	23020199	Tig 26V · 4 mt · with gas valve · conn. 50 mm ² KIT consumables \varnothing 2,4 mm	Fox 211 Puma 256 - 298
	23020157	ExperTig 26 · 4 mt · conn. 50 mm ² · 3 Pin KIT consumables \varnothing 2,4 mm	Galileo TIG 219HF
	23020176	ExperTig 26 · 4 mt · conn. 50 mm ² · 12 Pin KIT consumables \varnothing 2,4 mm	Galileo TIG 211 Easy AC/DC
	23020189	ExperTig 26 · 8 mt · conn. 50 mm ² · 12 Pin KIT consumables \varnothing 2,4 mm	Galileo TIG 211 Easy AC/DC
	23020409	Tig26 · 4 mt · conn. 50 mm ² · 3 Pin KIT consumables \varnothing 2,4 mm	Galileo TIG 219HF
	23020410	Tig26 · 4 mt · conn. 50 mm ² · 12 Pin KIT consumables \varnothing 2,4 mm	Galileo TIG 211 Easy AC/DC

SPARE PARTS · TIG CONSUMABLES

	23025006	Cerium tungsten electrode (grey) · \varnothing 1,6 mm · Lots of 10 pcs
	23025015	Cerium tungsten electrode (grey) · \varnothing 2,4 mm · Lots of 10 pcs
	23025019	Cerium tungsten electrode (grey) · \varnothing 3,2 mm · Lots of 10 pcs
	23025007	Pure tungsten electrode (green) · \varnothing 1,6 mm · Lots of 10 pcs
	23025016	Pure tungsten electrode (green) · \varnothing 2,4 mm · Lots of 10 pcs
	23025020	Pure tungsten electrode (green) · \varnothing 3,2 mm · Lots of 10 pcs
	23025004	TIG collet · \varnothing 1,6 mm · Lots of 3 pcs
	23025013	TIG collet · \varnothing 2,4 mm · Lots of 3 pcs
	23025017	TIG collet · \varnothing 3,2 mm · Lots of 3 pcs
	23025005	TIG collet body · \varnothing 1,6 mm · Lots of 3 pcs
	23025014	TIG collet body · \varnothing 2,4 mm · Lots of 3 pcs
	23025018	TIG collet body · \varnothing 3,2 mm · Lots of 3 pcs
	23025008	Ceramic nozzle · GR.6 · \varnothing 9,8 mm · Lots of 5 pcs
	23025009	Ceramic nozzle · GR.8 · \varnothing 12,7 mm · Lots of 5 pcs


TIG TORCH CONNECTOR

	22105126	TIG torch male connector · 3 pins
	22105166	TIG torch male connector · 12 pins

MIG/MAG ACCESSORIES
ACCESSORIES · MIG/MAG TORCHES

	23000132	MIG TORCH TN 2,7 m · Black · Direct connection · Gas/No Gas	Fox 165
	23000142K	MIG TORCH TN 14 2 m · Black · Direct connection · Gas/No Gas	mini Fox 161
	23000491	MIG TORCH 15 3 m · Grey/black · Euro connection	Fox 185 - 191 Puma 191
	23000494	TRAFIMET ERGO PLUS 25 3 m · Black/blue · Euro connection	Fox 211 Puma 256 - 278 - 298
	23000495	TRAFIMET ERGO PLUS 25 4 m · Black/blue · Euro connection	Fox 211 Puma 256 - 278 - 298






ALUMINIUM KIT FOR MIG TORCH 23000494

	04600384	23005443	Contact tip Ø 1,0 mm · M8 · AL	Fox 211 Puma 256 - 278 - 298
		23005444	Gas diffuser · M8	
		23005490	Wire Liner · Grey · Graphite Ø 1,0 - 1,2 mm · 3,5 m · Brass terminal	
		23005562	Brass wire inlet tube Ø 4,4 x 5 mm · L = 150 mm	






MIG/MAG ACCESSORIES

SPARE PARTS · MIG/MAG CONSUMABLES







MIG TORCH 23000132 CONSUMABLES

	23005491D	Torch neck
	23005516	Torch neck without gas valve
	23005018	Contact tip · \varnothing 0,6 mm lots of 20 pcs
	23005019	Contact tip · \varnothing 0,8 mm lots of 20 pcs
	23005020	Contact tip · \varnothing 1,0 mm lots of 20 pcs
	23005021	Gas nozzle · \varnothing 12 mm lots of 10 pcs
	23005096	Gas diffuser · lots of 10 pcs





MIG TORCH 23000142K CONSUMABLES

	23005491D	Torch neck
	23005516	Torch neck without gas valve
	23005018	Contact tip · \varnothing 0,6 mm lots of 20 pcs
	23005019	Contact tip · \varnothing 0,8 mm lots of 20 pcs
	23005182	Contact tip · \varnothing 0,9 mm lots of 20 pcs
	23005021	Gas nozzle · \varnothing 12 mm lots of 10 pcs
	23005096	Gas diffuser · lots of 10 pcs






MIG TORCH 23000491 CONSUMABLES

	23005102	Torch neck
	23005018	Contact tip · \varnothing 0,6 mm lots of 20 pcs
	23005019	Contact tip · \varnothing 0,8 mm lots of 20 pcs
	23005020	Contact tip · \varnothing 1,0 mm lots of 20 pcs
	23005029	Contact tip · \varnothing 1,2 mm lots of 20 pcs
	23005448	Contact tip · \varnothing 1,0 mm for Aluminium · lots of 20 pcs
	23005117	Ugello · \varnothing 9,5 mm · lots of 10 pcs
	23005021	Ugello · \varnothing 12 mm · lots of 10 pcs
	23005022	Spot welding nozzle lots of 10 pcs
	23005092	Gas diffuser · lots of 10 pcs
	23005562	Brass wire inlet tube \varnothing 4,4 x 5 mm · L = 150 mm

MIG TORCH 23000494 - 23000495 CONSUMABLES

	23005619	Torch neck
	23005070	M6 Contact tip · \varnothing 0,6 mm lots of 20 pcs
	23005038	M6 Contact tip · \varnothing 0,8 mm lots of 20 pcs
	23005039	M6 Contact tip · \varnothing 1,0 mm lots of 20 pcs
	23005040	M6 Contact tip · \varnothing 1,2 mm lots of 20 pcs
	23005112	M6 Contact tip · \varnothing 1,6 mm lots of 20 pcs
	23005036	Gas nozzle · \varnothing 15 mm lots of 10 pcs
	23005037	Spot welding nozzle lots of 5 pcs
	23005034	Gas diffuser · lots of 10 pcs
	23005562	Brass wire inlet tube \varnothing 4,4 x 5 mm · L = 150 mm

MIG TORCH 23000484 CONSUMABLES

	23005114	Torch neck
	23005442	M8 Contact tip M8 · \varnothing 0,8 mm lots of 10 pcs
	23005443	M8 Contact tip M8 · \varnothing 1,0 mm lots of 10 pcs
	23005447	M8 Contact tip M8 · \varnothing 1,2 mm lots of 10 pcs
	23005036	Gas nozzle · \varnothing 15 mm · lots of 10 pcs
	23005037	Spot welding nozzle lotti da 5 pz
	23005444	Gas diffuser · lots of 5 pcs
	23005562	Brass wire inlet tube \varnothing 4,4 x 5 mm · L = 150 mm

MIG/MAG ACCESSORIES
ALUMINIUM KIT FOR FOX RANGE

	04600557	23005035	Wire liner · Red · Teflon \varnothing 1,0 - 1,2 mm · 3,3 m	Fox 185
		33805104	Drive roll for ALU 0,8 - 1,0 mm · \varnothing 30 mm	
		23005562	Brass wire inlet tube \varnothing 4,4 x 5 mm · L = 150 mm	
	04600589	23005442	Contact tip · \varnothing 0,8 mm · M8 · AL	Fox 211
		23005443	Contact tip · \varnothing 1,0 mm · M8 · AL	
		23005444	Gas diffuser · M8	
		23005490	Wire liner · Grey · Graphite \varnothing 1,0 - 1,2 mm · 3,5 m · brass terminal	
		33805104	Drive roll for ALU 0,8 - 1,0 mm · \varnothing 30 mm	
		23005562	Brass wire inlet tube \varnothing 4,4 x 5 mm · L = 150 mm	

SPARE PARTS · WIRE LINERS






	23005025	Wire liner · \varnothing 0,8 - 1,0 mm · 3,3 m · Steel · Blue	Torch 15
	23005041	Wire liner · \varnothing 1,0 - 1,2 mm · 3 m · Steel · Red	Torch 25
	23005106	Wire liner · \varnothing 1,0 - 1,2 mm · 5 m · Steel · Red	Torch 25
	23005111	Wire liner · \varnothing 1,2 - 1,6 mm · 5 m · Steel · Yellow	Torch 25
	23005035	Wire liner · \varnothing 1,0 - 1,2 mm · 3,3 m · Teflon · Red · for Stainless steel	Torch 25
	23005135	Wire liner · \varnothing 1,0 - 1,2 mm · 5,3 m · Teflon · Red · for Stainless steel	Torch 25
	23005586	Wire liner · \varnothing 1,0 - 1,2 mm · 3,5 m · Graphite · Grey · for Stainless steel	Torch 25

MIG/MAG ACCESSORIES


WELDING WIRE REELS Ø 300 mm

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




WELDING WIRE REELS Ø 200 MM

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






SPOOL HOLDER

	21690880	Spool holder Ø 50 mm Adaptor for metallic coils
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MIG/MAG ACCESSORIES
DRIVE ROLLS FOR PLASTIC WIRE FEEDERS

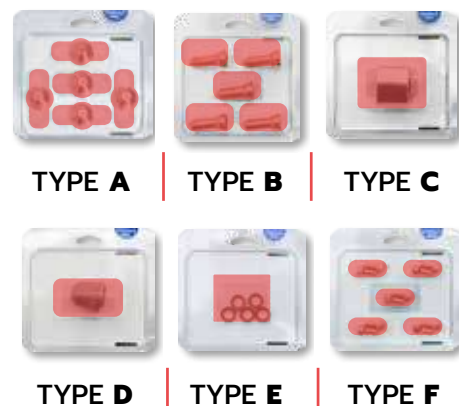
	33805074	Drive roll · for steel & stainless steel 0,6 - 0,8/0,9 mm · Ø 25 mm · Knurled groove	Mini-Fox Fox 165
	33805023	Drive roll · for steel & stainless steel 0,6 - 0,8/0,9 mm · Ø 30 mm · tempered	Fox 191
	33805128	Drive roll · for aluminium 0,8 - 1,0 mm · Ø 30 mm	Fox 191

DRIVE ROLLS FOR METALLIC WIRE FEEDERS

	33805007	Wire block roll Ø 30 mm · lots of 5 pcs	Fox 185 - 211 Puma 191 - 256 - 278 -298
	33805003	Drive roll · for steel & stainless steel 0,6 - 0,8 mm · Ø 30 mm	Fox 185 - 211 Puma 191 - 256 - 278 -298
	33805071	Drive roll · for steel & stainless steel 0,6 - 0,9 mm · Ø 30 mm	Fox 185 - 211 Puma 191 - 256 - 278 -298
	33805101	Drive roll · for steel & stainless steel 0,8 - 1,0 mm · Ø 30 mm	Fox 185 - 211 Puma 191 - 256 - 278 -298
	33805005	Drive roll · for steel & stainless steel 1,0 - 1,2 mm · Ø 30 mm	Fox 185 - 211 Puma 191 - 256 - 278 -298
	33805067	Drive roll · for flux-core · 1,0 - 1,2 mm Ø 30 mm · Knurled groove	Fox 185 - 211 Puma 191 - 256 - 278 -298
	33805104	Drive roll · for aluminium 0,8 - 1,0 mm · Ø 30 mm	Fox 185 - 211 Puma 191 - 256 - 278 -298

PLASMA CUTTING ACCESSORIES

PLASMA CONSUMABLES' BLISTER TYPE

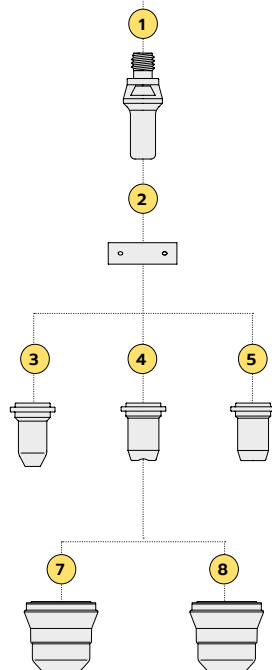


PLASMA CUTTING MANUAL TORCH

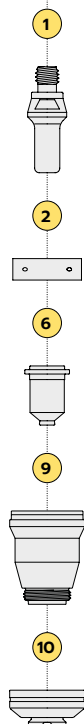


Suitable for:	COMBI PC 302K	99830015
PT 40C	40 A - 4m - Direct conn.	23010067
Consumable KIT (Pos.): 1 · 2 · 4 · 7		
Suitable for:	PC 33	99830024
	PC 43	99830019
PT 40	40 A - 4m - Direct conn.	23010070
Consumable KIT (Pos.): 1 · 2 · 4 · 8 - per PC 33		
Consumable KIT (Pos.): 1 · 2 · 5 · 8 - per PC 43		

Cutting 40 A



High performance cutting 40 A














SPARE PARTS / CONSUMABLES

Pos.	Description	Quantity	Part number
1	Electrode	10 pcs	23015187BH
2	Gas 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	1 pc	23015188BH
9	Retaining cap	1 pc	23015347BH
10	Shield cap	2 pcs	23015348BH

COMPASS KIT












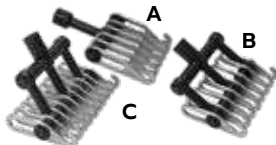




	23015211	180,00 €
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SPOT WELDING ACCESSORIES
SPOT CAR EVO 4000 · 5000

	99920218	Gun · 50 mm² · 2 m · conn. 3 pins	Spotcar EVO 4000	
	99920223	Gun · 70 mm² · 2 m · conn. 3 pins	Spotcar EVO 5000	
	99920108	Ground cable · 50 mm² · direct	Spotcar EVO 4000	
	99920216	Ground cable · 70 mm² · direct	Spotcar EVO 5000	
	99920181	Ground cable + fast ground 50 mm² · direct	Spotcar EVO 4000	
	99920182	Ground cable + fast ground 50 mm² · direct · 50 mm²	Spotcar EVO 5000	
	99920122	fast ground	Spotcar EVO 4000 · 5000	
	99920525 Scatola ricambi	99920126	Puller hammer without handle	Spotcar EVO 4000 · 5000
		99920048	Mandrel for 3 points washers	
		99920042	carbon electrode 10 x 300 · lots of 5 pcs	
		99920524	Electrode for squeezing Ø 16 mm	
		99920127	3 points washers lots of 10 pcs	
	99920173	Accessories for pulling wavy wires	-	
	99920175	Puller hammer with handle	-	
	99920126	Puller hammer without handle	-	



SPOT WELDING ACCESSORIES

SPOT CAR EVO 4000 · 5000

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

SPOT WELDING ACCESSORIES





ACCESSOIRES · SPOT CAR ALU 33 · 66

	99920500	FastGun + ground cable · 3 m · 3 pins	
	99920134	Accessories box Electrode for AL studs · for M4 Washers KIT · Kit of 5 pcs · for M4 Screw - AlMg3 · 100 pcs · M4 x 16 mm Screw - AlSi12 · 100 pcs · M4 x 16 mm	

SPARE PARTS · SPOT CAR ALU 33 · 66

	99920478	Electrode for AL screws · for M3	
	99920219	Electrode for AL screws · for M4	
	99920479	Electrode for AL screws · for M5	
	99920480	Electrode for AL screws · for M6	
	99920159	Washers KIT · Kit of 5 pcs · for M3	
	99920160	Washers KIT · Kit of 5 pcs · for M4	
	99920161	Washers KIT · Kit of 5 pcs · for M5	
	99920162	Washers KIT · Kit of 5 pcs · for M6	
	99920163	Screw - AlMg3 · 100 pcs · M3 x 12 mm	
	99920164	Screw - AlMg3 · 100 pcs · M4 x 16 mm	
	99920165	Screw - AlMg3 · 100 pcs · M5 x 20 mm	
	99920167	Screw - AlSi12 · 100 pcs · M3 x 12 mm	
	99920168	Screw - AlSi12 · 100 pcs · M4 x 16 mm	
	99920169	Screw - AlSi12 · 100 pcs · M5 x 20 mm	

PULLING SYSTEMS

	99920141	Pull system for aluminium	
	99920227	ALU pocket pull system	
	99920226	Double pull system	
	99920225	Single pull system	

DEALER KIT

DEALER KIT



99900181K Metallic product display

99900293 Carton product display



77920023 **ROLL UP** Helvi • Institutional design
ITALIAN • 80x200 mm

77920024 **ROLL UP** Helvi • Institutional design
ENGLISH • 80x200 mm

77920025 **ROLL UP** Helvi • Welding design
ITALIAN • 80x200 mm

77920026 **ROLL UP** Helvi • Welding design
ENGLISH • 80x200 mm



77920027 **PVC BANNER** Helvi
100x200 mm




MERCHANDISING

MERCHANDISING



77920013

 Helvi **PENS**

 Available in different colors:   


77920014

 Helvi **ANTI-STRESS**

shaped Fox 185



77920015

 Helvi **T-SHIRTS**

 color **BLACK**


77920016

 Helvi **SHOPPERS**

 color **BLACK**


77920017

 Helvi **CAPS**

 color **BLACK**

FEATURES LEGEND

	European conformity		Reference regulations		Regulation of energy efficiency
	Multitension (110V - 230V)		Air cooling		Water proof
	No-load voltage reduction		System that allows reduction of electricity consumption		Multitension Input
	Possibility of use with power generators		Unstable line voltage compensation		Display for parameter visualization
	Alternating current welding		Direct current welding		Alternating/direct current welding
	Suitable for heavy duty		Suitable for automotive		25mm ² connection
	MMA electrode welding		Arc Force function (avoids electrode sticking during welding)		Hot start function (Makes starting the arc easier)
	Anti sticking function		Rutile and Basic electrodes		Cellulosic and Aluminium electrodes
	TIG welding		TIG Lift Arc (contact)		TIG HF start (at distance)
	TIG Pulse		Possibility to set all TIG parameters		Facilitate welding parameters adjustments

FEATURES LEGEND

	MIG/MAG welding		Spool wire capacity of 5kg max		Synergic regulation
	2 rolls plastic wire feeder		2 rolls metallic wire feeder		4 rolls metallic wire feeder
	MIG welding Gas / no Gas (flux core)				
	Plasma cutting		Pneumatic torch		Compressor included
	Spot welding		Capacitive discharge		ALU studs 3 to 6 mm
	Battery chargers		Suitable for motorcycle		Suitable for cars
	Suitable for nautical purpose		Suitable for tractors		Recharge timer
	Car protection system during start		Starter function		Desulphation
	Recondition		Maintenance		Supply
	Fast/slow charge		Low temperature charge		Night mode
	Tester		Type of supported batteries		

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), 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 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). 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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We have done our best to ensure the information in this catalogue is correct. However, we reserve the right to introduce changes without prior notice.

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