



MMA welding power sources

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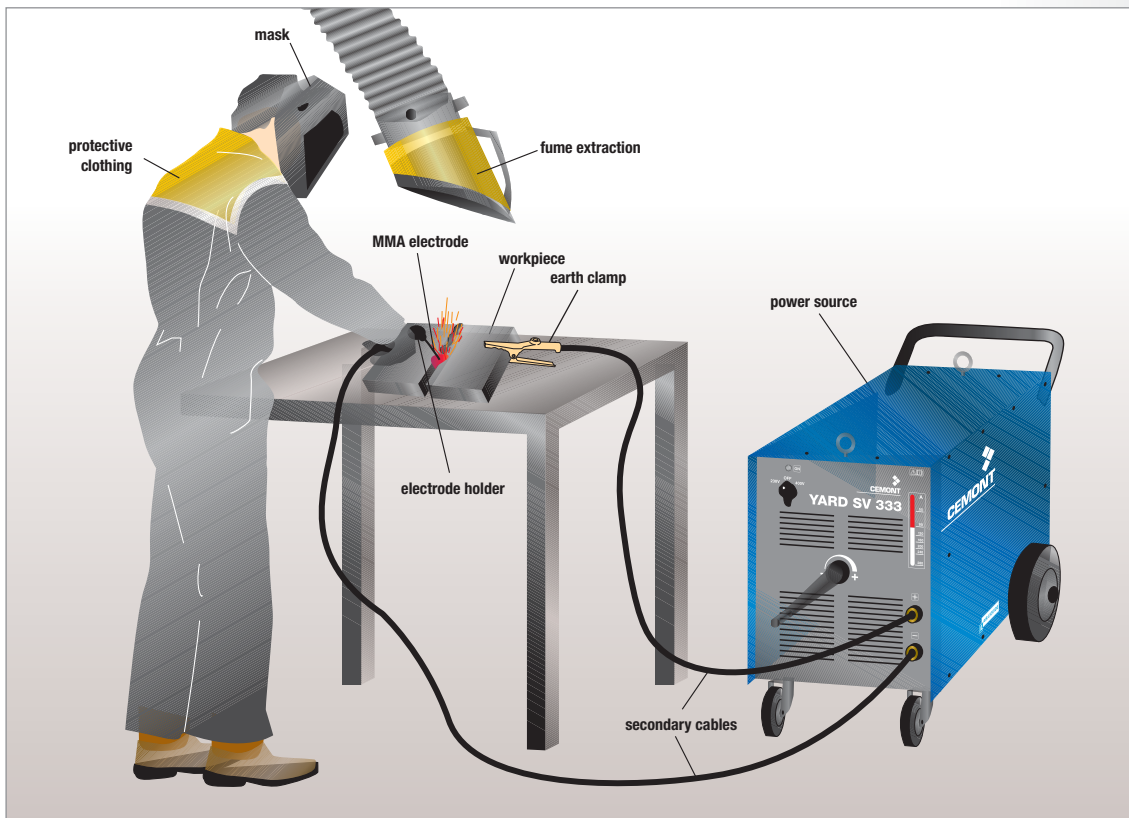


For all accessories and protection products, consult our WELDLINE catalogue and visit our website www.weldline-alw.com.

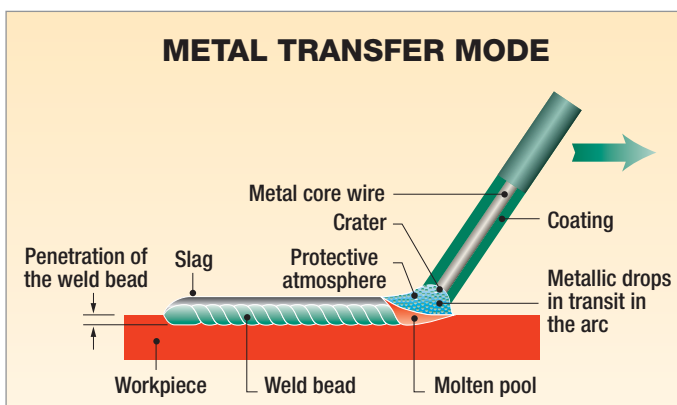


MMA - electrode welding

A TYPICAL MANUAL METAL ARC ELECTRODE WELDING INSTALLATION



METAL TRANSFER MODE



Process principles

The filler metal is transferred by an electric arc between the core wire of the coated electrode and the work piece.












The heat emitted by the electric arc simultaneously melts the base metal (work piece), the metal core wire and the coating of the electrode, thus creating the weld pool that receives the droplets of melted filler metal and slag transferred into the plasma of the arc.

Constituents of the electrode coating are volatilised, thus helping to create the arc atmosphere. The low-density melted coating covers the weld pool and forms the slag that protects the deposited metal during and after solidification.













MMA WELDING EQUIPMENT

The CEMONT offer, inverter technology

PUMA GC				 SX 1700 GC		 SX 2200 GC
PUMA G				 S 1700G		
PUMA S			 S 1400	 S 1600	 SX 2000	
COLT		 130		 150		
SPEEDY	 100		 130	 150		
	80 A	125 A	130 A	150 A / 160A	180 A	220 A

The CEMONT offer, traditional technology

YARD STC						 STC 400	 650 SX
YARD SV				 SV 263	 SV 333	 SV 403	 SV 443
PRATIKA AC/DC			 261 AC/DC				
PRATIKA	 1810 TS	 2160 T 2110 TS	 2660 TS				
	140 A	160 A	195 A	220 A	260 A	350 A	400 A
	Single-phase			Three-phase			

SPEEDY 100 / 130 / 150

Electronic portable ultra-light power sources for MMA electrode welding. Single-phase units with 16 A “domestic plug”. The new SPEEDY range is the easiest, the safest and the most convenient way to weld all types of MMA electrode. This range is suitable for light duty and maintenance activities. The intelligent Inverter Power Microcontroller (I.P.M.) technology makes it extremely easy to weld in all positions at a competitive price. For electrodes up to 4.0 mm (SPEEDY 150).

Features and product advantages:

- Compatible with use in the domestic environment due to reduced electromagnetic emissions: the “cleanest” unit in its category.
- 2 years warranty. Safe and reliable.
- Excellent starting and arc stability due to the IPM technology with Arc Force and Hot Start linked to the welding current. Easy to use and high quality.
- Single-phase 230 V unit, extra light: < 3.8 kg.



MMA WELDING EQUIPMENT

MMA WELDING EQUIPMENT



Accessories
see page 2-14

TECHNICAL CHARACTERISTICS:

	SPEEDY 100	SPEEDY 130	SPEEDY 150
Single-phase input voltage	230 - 50/60 Hz		
Effective input current	5 A	10 A	11 A
Open circuit voltage	69 V		
Welding current range	5 - 80 A	10 - 130 A	10 - 150 A
Duty cycle at 40°C (EN 60974-1)	at 10%	80 A	130 A
	at 60%	35 A	60 A
	at 100%	30 A	45 A
Connector size	9 mm		
Protection index	IP 21		
Dimensions	220 x 120 x 320 mm		
Weight	3.5 kg	3.8 kg	3.8 kg



Starting kit SPEEDY*

Cat. nr: W 000 272 759

* Mask, chipping hammer, electrode small pack, electrode holder and earth clamp with cables and connectors.

TO ORDER:

Power source only	W 000 271 549	W 000 271 546	W 000 271 545
Option			
Kit arc 16C25 (electrode holder + earth clamp)	W 000 260 680		
Starting kit SPEEDY *	W 000 272 759		

Delivered equipped with:

- primary cable with 16 A plug,
- safety instructions,
- user manual.



MMA WELDING EQUIPMENT

COLT 130G / 150G

The range of COLT power sources, known all around the world for its exceptional power to weight ratio, now with full generator compatibility due to its new I.P.M. technology (Inverter Power Microcontroller). This professional range is suitable for light duty and maintenance activities.

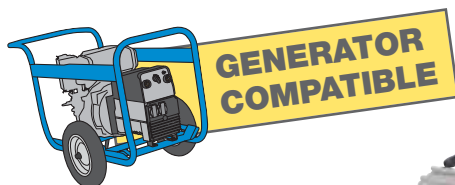


**ULTRA-MOBILE
READY TO USE**

Standards
EN 60974-1
EN 60974-10

Features and product advantages:

- Compatible with motor-generators.
- Delivered ready to use in a plastic case with all accessories: Plug & Weld.
- Compatible with use in the domestic environment due to reduced electromagnetic emissions: the cleanest unit in its category.
- 2 years warranty. Safe and reliable.
- Excellent starting and arc stability due to the IPM technology with Arc Force and Hot Start linked to the welding current. Easy to use and high quality.
- Single-phase 230 V unit, extra light: < 3.8 kg.



TECHNICAL CHARACTERISTICS:

	COLT 130G	COLT 150G	
Single-phase input voltage	230 V – 50/60 Hz		
Power	5.9 kVA		
Effective input current	12 A		
Open circuit voltage	69 V		
Welding current range	10 - 120 A	10 - 140 A	
Duty cycle at 40 °C (EN 60974-1)	at 15%	120 A	140 A
	at 60%	60 A	70 A
	at 100%	45 A	55 A
Connector size	9 mm		
Protection index	IP 23		
Dimensions	220 x 120 x 320 mm		
Weight	3.5 kg	3.8 kg	



Delivered equipped with:

- primary cable,
- welding cable with electrode holder,
- welding cable equipped with earth clamp,
- hammer / brush / helmet,
- pack of rutile electrodes,
- safety instructions,
- user manual,
- PVC case for transportation.

TO ORDER:

Power source only	W 000 271 548	W 000 271 547
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MMA WELDING EQUIPMENT

PUMA S 1400 / 1600 1700G / SX 2000



HEAVY DUTY

Standards

EN 60974-1
EN 60974-10

MMA WELDING EQUIPMENT

MMA WELDING EQUIPMENT

The PUMA power sources are for MMA coated electrode welding for both industrial and daily use.

A special version compatible with generators is available (1700G). The PUMA range has been designed for on site use.

Features and product advantages:

- **Light weight:** less than 7 kg.
- **Versatile:** able to weld all types of MMA electrodes (steel / stainless steel etc...).
- **User friendly:** Hot Start / anti-stick device.
- **Powerful:** high duty cycle at 40 °C.
- **Transportable:** using the shoulder strap.
- Generator compatibility only PUMA 1700G.



2006-616



- 1 Power potentiometer.
- 2 Switch on/off.
- 3 Warning light.
- 4 Power borders.

2006-614

TECHNICAL CHARACTERISTICS:

	PUMA S 1400	PUMA S 1600	PUMA S 1700G	PUMA SX 2000
Single-phase input voltage	230 V			
Power	3.8 kVA	4.5 kVA	4.5 kVA	6 kVA
Effective input current	15 A	16 A	19 A	19 A
Open circuit voltage	85 V			82 V
Welding current range	5 - 130 A	5 - 150 A	5 - 150 A	5 - 180 A
Duty cycle	at 35%	130 A	150 A (25%)	180 A (30%)
	at 60%	100 A	120 A	140 A
	at 100%	80 A	100 A	110 A
Connector size	9 mm			13 mm
Protection index	IP 23			
Dimensions	145 x 230 x 365 mm			185 x 310 x 440 mm
Weight	7 kg			10 kg



Accessories
see page 2-14

Delivered equipped with:

- primary cable,
- safety instructions,
- user manual.

TO ORDER:

Power source only	W 000 263 627	W 000 263 636	W 000 263 650	W 000 263 686
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PUMA SX 1700 GC PUMA SX 2200 GC

The PUMA SX family is specially designed for heavy duty applications and features new functions such as the advanced TIG LIFT mode with control of slope up and down (SX 2200 GC). The digital display allows the setting of Arc dynamism for improved arc stability in all welding applications. The GC range is an industrial range, compatible with the use of motor-generators and for welding with all types of MMA electrodes including cellulosic.

Features and product advantages:

- Compatible with motor-generators.
- 2 years warranty. Safe and reliable.
- Digital display: precise adjustment and reading of the parameters (SX 2200 GC).
- Comfortable: over-intensity when starting and anti-stick device (adjustable on SX 2200 GC).
- Suitable for welding with cellulosic electrodes.



2006-620

- 1 Switch on/off.
- 2 Power potentiometer.
- 3 Thermal safety indicator.
- 4 Selection MMA / TIG DC.



+ CELLULOSIC
APPLICATIONS

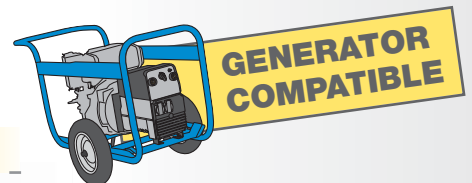
Standards

EN 60974-1
EN 60974-10



2006-622

2006-682



Accessories
see page 2-14

TECHNICAL CHARACTERISTICS:

	PUMA SX 1700 GC	PUMA SX 2200 GC
Input voltage 50/60 Hz	230 V Single-phase	400 V Three-phase
Power	4.5 kVA	7.2 kVA
Effective input current	19 A	9 A
Open circuit voltage	108 V	105 V
Welding current range	5 - 160 A	5 - 220 A
Duty cycle		
at 30%	160 A	220 A (40%)
at 60%	130 A	190 A
at 100%	100 A	150 A
Connector size	13 mm	
Protection index	IP 23	
Dimensions	180 x 250 x 400 mm	250 x 470 x 450 mm
Weight	8 kg	18 kg

TO ORDER:

Power source only	W 000 263 662	W 000 263 688
Option		
Remote control	-	W 000 242 069

Delivered equipped with:

- primary cable,
- safety instructions,
- user manual.



MMA WELDING EQUIPMENT

PRATIKA 1810 TS / 2110 TS PRATIKA 2160 T / 2660 T

PRATIKA are transformer technology air cooled power sources. The welding current can be adjusted using the shunt. AC current output (T and TS ranges) for easy welding with rutile electrodes. PRATIKA is your daily welding set.

Features and product advantages:

- **Input voltage:** 230 V single-phase or 230 V - 400 V single-phase.
- **Simple:** adjustment by shunt with visualisation of the current.
- **Ready-to-use:** delivered with welding accessories (TS).
- **Professional:** robust transformer, air cooled.
- **Safety:** with integrated thermal security.



TRANSFORMER

Standards

EN 60974-1
EN 60974-10



2007-234

MMA WELDING EQUIPMENT

MMA WELDING EQUIPMENT



2007-233

- 1 Welding current display.
- 2 Switch on/off.
- 3 Adjustment setting.
- 4 Primary cable.



TECHNICAL CHARACTERISTICS:

	PRATIKA 1810 TS	PRATIKA 2110 TS	PRATIKA 2160 T	PRATIKA 2660 T
Single-phase input voltage	230 V (50 Hz)		230 V - 400 V (50 Hz)	
Power	4.2 kVA	5.4 kVA	5.4 kVA	6.2 kVA
Effective input current	12 A	13 A	15 A (230 V)	19 A - 12 A
Open circuit voltage	48 V			
Welding current range	40 - 140 A	55 - 160 A		40 - 195 A
Connector size	9 mm			
Protection index	IP 21			
Dimensions (mm)	220 x 400 x 230	240 x 550 x 410	240 x 560 x 445	240 x 640 x 445
Weight	13.4 kg	17 kg	16.5 kg	20 kg

Delivered equipped with:

- primary cable,
- welding cables equipped with earth clamp and electrode holder (TS models),
- safety instructions,
- user manual.

TO ORDER:

Power source only	W 000 264 088	W 000 264 091	W 000 264 094	W 000 263 672
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MMA WELDING EQUIPMENT

PRATIKA 261 AC/DC



PRATIKA AC/DC are transformer technology air cooled power sources. The welding current can be adjusted using the shunt. AC or DC current output for welding with all types of coated electrodes.
PRATIKA is the power source for all applications.

TRANSFORMER FOR ALL TYPES OF ELECTRODES

Standards
EN 60974-1
EN 60974-10

Features and product advantages:

- **Input voltage:** 230 V – 400 V single-phase.
- **Simple:** adjustment by shunt with indication of the current.
- **Versatility:** AC/DC for all types of coated electrodes.
- **Powerful:** welding current up to 215 A.
- **Professional:** robust transformer air cooled.
- **Safety:** with integrated thermal security.



- 1 Welding current display.
- 2 Thermal safety light.
- 3 Switch on/off.
- 4 Welding cables connectors.
- 5 Adjustment setting.
- 6 Primary cable.

TECHNICAL CHARACTERISTICS:

		PRATIKA 261 ACDC
Single-phase input voltage		230 - 400 V
Power		14.2 kVA
Effective input current		20 A - 12 A
Open circuit voltage		95 V
Welding current range	AC	50 - 220 A
	DC	25 - 160 A
Electrode diameters		2 to 5 mm
Duty cycle at 40 °C	at 10%	205 A
	at 60%	80 A
Connector size		9 mm
Protection index		IP 21
Dimensions		360 x 300 x 460 mm
Weight		33.5 kg



Delivered equipped with:

- primary cable,
- handle and wheels,
- safety instructions,
- user manual.

TO ORDER:

Power source only	W 000 264 096
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**MMA WELDING
EQUIPMENT**

YARD SV 263 / SV 333 SV 403 / SV 443



YARD power sources are rectifiers for MMA coated electrode welding. They are well suited for both workshop and outdoor working conditions. Easy to use with adjustment using the shunt, they are for professional and intensive applications.

Features and product advantages:

- **Input voltage:** bi-tension 230 V – 400 V three-phase.
- **Simple:** power adjustment by shunt.
- **Easy to set:** linear control.
- **Cooling:** forced air cooling fan.
- **Practical:** due to the large diameter wheels and handle.
- **Versatile:** able to weld all types of electrodes (including cellulosics).

**POWERFUL
ROBUST**

Standards

EN 60974-1
EN 60974-10

MMA WELDING EQUIPMENT

MMA WELDING
EQUIPMENT



2006-927



- 1 Switch on/off and primary voltage selection.
- 2 Current adjustment.
- 3 Welding current indicator.
- 4 Welding cables connectors.

TECHNICAL CHARACTERISTICS:

	YARD SV 263	YARD SV 333	YARD SV 403	YARD SV 443
Three-phase input voltage	230 - 400 V triphasé			
Power	14.5 kVA	16.9 kVA	22.8 kVA	31.2 kVA
Effective input current	21.5 A - 12.5 A	25 A - 15.5 A	34 A - 19.5 A	52 A - 30 A
Open circuit voltage	62 V - 66 V	61 V - 66 V	63 V - 70 V	71 V - 79 V
Welding current range	45 - 220 A	55 - 260 A	50 - 325 A	60 - 400 A
Duty cycle at 40 °C	400 A (45%)			
at 35%	220 A	260 A	325 A	
at 60%	170 A	200 A	250 A	345 A
at 100%	130 A	155 A	190 A	265 A
Connector size	13 mm			
Protection index	IP 21			
Dimensions (mm)	450 x 620 x 890	560 x 730 x 1080		
Weight	57 kg	83 kg	107 kg	123 kg



Delivered equipped with:

- primary cable,
- safety instructions,
- user manual.

TO ORDER:

Power source only	W 000 263 691	W 000 263 693	W 000 263 695	W 000263 686
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YARD STC 400



HEAVY DUTY - VERSATILE
(MMA welding/gouging/TIG DC)

Standards

EN 60974-1
EN 60974-10

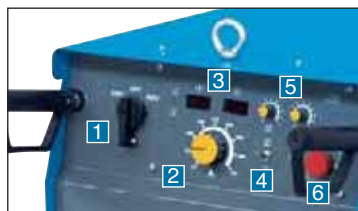
YARD STC 400 power source is built using thyristor technology, known as robust, successful and reliable all over the world.

The YARD STC 400 has already been approved in all types of environments such as transport equipment, manufacturing, shipyards, repair, etc...

The YARD STC 400 is the solution for intensive welding with coated electrodes (including cellulosic) and for gouging.

Features and product advantages:

- **Input voltage:** dual-voltage 230 V – 400 V three-phase.
- **Current adjustment:** electronic.
- **Display:** digital A / V.
- **Versatility:** coated electrodes / TIG DC lift / gouging.
- **Flexible:** possibility to adjust Hot Start and Arc force.
- **Professional:** steel case equipped with wheels and slinging eyes.
- **Remote control:** remote adjustment flexibility.



- 1 Switch on/off and primary voltage selection.
- 2 Regulation potentiometer.
- 3 Digital display A/V.
- 4 Selection: coated electrode / TIG.
- 5 Hot Start / Arc Force adjustment.
- 6 Remote control connection.

TECHNICAL CHARACTERISTICS:

	YARD STC 400
Three-phase input voltage	230 - 400 V
Power	33 kVA
Open circuit voltage	80 V
Welding current range	10 - 400 A
Duty cycle	
at 35%	400 A
at 40 °C	300 A
at 60%	300 A
at 100%	230 A
Connector size	13 mm
Electrode diameters	1.6 to 6.3 mm
Protection index	IP 23
Dimensions	970 x 670 x 730 mm
Weight	146 kg



Remote control



Accessories
see page 2-14

TO ORDER:

Power source only	W 000 263 712
Option	
Remote control	W 000 219 557

Delivered equipped with:

- primary cable,
- safety instructions,
- user manual.

YARD 650 SX

The new YARD 650 SX uses electronic regulation for control of the welding current. Designed for adverse conditions, the YARD 650 SX is reliable and sturdy, dedicated to heavy duty applications from steel construction to shipyards. An 8-bit processor controls the welding process, protects the equipment and informs the welder of the current state. The YARD 650 SX is the solution for MMA welding, TIG lift welding and ARCAIR gouging.

Features and product advantages:

- Digital display for precise parameter regulation and monitoring.
- Process selector: MMA, TIG lift, gouging, MIG/MAG welding.
- 42 V DC current up to 150 A available.
- 48 V AC auxiliary current available as an option (up to 32 A).
- Remote control (option).
- Compensation of input voltage variations.
- Hot start and Arc Force regulation available for improved arc starting and stability.



MULTI PURPOSE APPLICATIONS
ROBUST AND POWERFUL

Standards
EN 60974-1
EN 60974-10



- 1 Switch on/off and primary voltage selection.
- 2 Regulation knob.
- 3 Digital display A/V.
- 4 Hot Start / Arc Force adjustment.
- 5 Remote control connection.

TECHNICAL CHARACTERISTICS:

		YARD 650 SX
Three-phase input voltage		230 V - 400 V - 50/60Hz
Effective input current		61.5 A (230 V) - 35.4 A (400 V)
Open circuit voltage		68 - 75 V
Welding current range		10 A - 630 A
Duty cycle at 40 °C	at 35%	630 A
	at 60%	470 A
	at 100%	370 A
Connector size		13 mm
Protection index		IP 23
Dimensions		1000 x 600 x 600 mm
Weight		176 kg



TO ORDER:

Power source only	W 000 272 669
Option	
Remote control	W 000 219 557
48 V socket for auxiliary services	W 000 260 682
MIG wire feeder DEVIDARC	W 000 305 090

Delivered equipped with:

- primary cable,
- safety instructions,
- user manual.

MMA WELDING EQUIPMENT

MMA WELDING KIT (ELECTRODE HOLDER + EARTH CLAMP)

ACCESSORIES KITS					
Name	16C25	25C25+	35C50	50C50	50C50+
Connector size	Ø 9 mm ²	Ø 9 mm ²	Ø 13 mm ²	Ø 13 mm ²	Ø 13 mm ²
SPEEDY	W 000 260 680 W 000 272 759*	-	-	-	-
COLT*	W 000 260 680	-	-	-	-
PUMA / PRATIKA AC/DC	-	W 000 011 138 W 000 268 854*	-	-	-
PUMA SX / YARD SV 263	-	-	W 000 011 139 W 000 268 856*	-	-
PRATIKA T <i>with cable lugs</i>	-	W 000 271 486	-	-	-
YARD SV	-	-	-	W 000 260 681	-
YARD STC / YARD 650SX	-	-	-	-	W 000 260 682

* with welding mask + hammer and brush



MMA OPTIONS:

	COLT	PUMA	PUMA SX	YARD STC
Remote control	-	-	W 000 242 069*	W 000 215 557
TIG torch with valve	WTT 9 V - 4 m W 000 266 434		WTT 26 V - 4 m W 000 266 573	

* PUMA SX 2200 GC only



MMA ELECTRODES (SELECTION):

Diameter	Rutile	Basic	Stainless steel	Cast iron
	SPEEDARC	RESISTARC	INOXARC 316 L	CASTARC
2.0 mm	W 000 287 021	-	W 000 287 083	-
2.5 mm	W 000 287 024	W 000 287 055	W 000 287 084	W 000 287 098
3.2 mm	W 000 287 025	W 000 287 056	W 000 287 085	W 000 287 099
4.0 mm	W 000 287 027	W 000 287 059	-	W 000 287 100

