



PLASMA cutting

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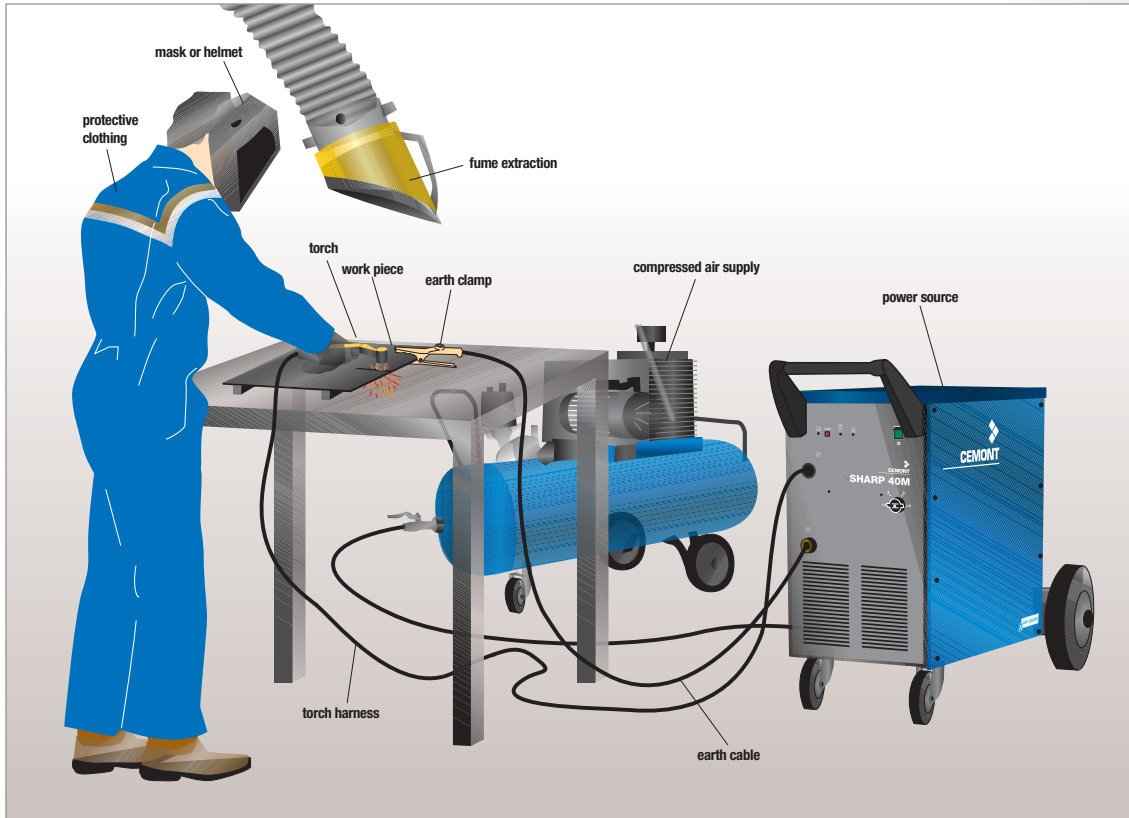
PLASMA CUTTING TORCHES

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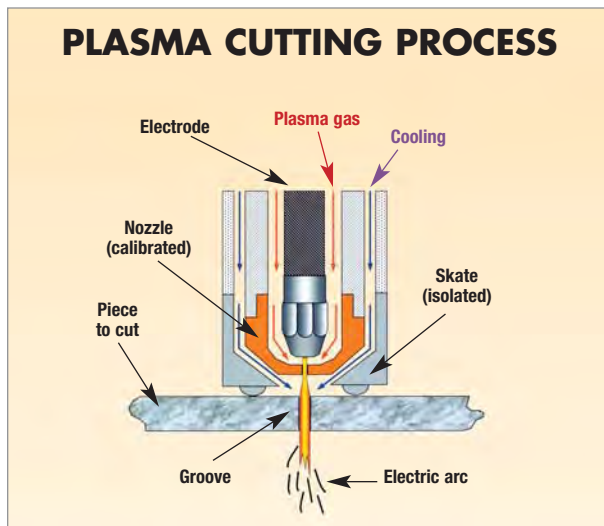


PLASMA Cutting

A TYPICAL MANUAL PLASMA CUTTING INSTALLATION



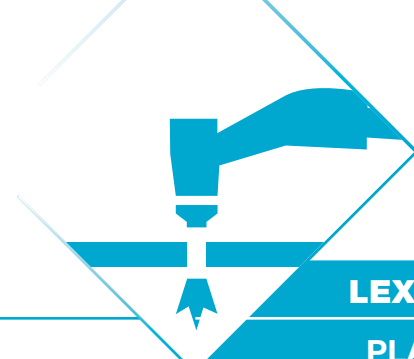
PLASMA CUTTING PROCESS



PLASMA cutting process

Plasma cutting can be used on all conductive materials. In this process, compressed air is blown at high speed out of a nozzle; at the same time an electrical arc is formed through the gas from the nozzle to the surface being cut, turning some of that gas to plasma.

The striking of the cutting arc is obtained by means of a low energy auxiliary arc.



LEXICON

PLASMA CUTTING

Cutting at distance:

With short nozzles and skirts, it is specifically designed for linear cutting using a guiding device.

Cutting in contact:

With a long and fine nozzle, it allows precise work following a drawn plan and accurate cutting at an angle without risk of arc extinction.

Duty cycle

It is defined in the standard. **It is the duration of continuous use of an equipment for a time of 10 minutes at an ambient temperature of 40 °C.**

A duty cycle of 100 A at 60% means that in 10 minutes, the equipment can cut for 6 minutes at 100 A continuously, followed by 4 minutes of cooling.

A duty cycle of 100 A at 100% means that the equipment is designed to produce 100 A continuously.

Protection index IP

The first figure indicates the maximum diameter of an object which can penetrate into the equipment and be in contact with a live component.

The second figure indicates the level of protection against **falling water**.

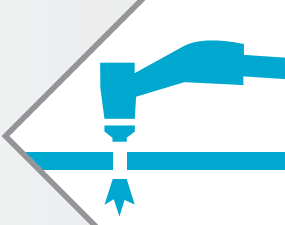
Example: IP **2 3**

2 Means that an object of more than 12.5 mm in diameter cannot be introduced into the equipment.

3 Means that the power source is protected against water falling in raindrops at a maximum angle of 60°.






Speed of cutting according to nozzle diameter

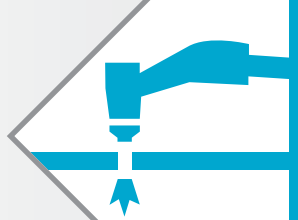
	Thickness (mm)	Nozzle diameter (mm)							
		FL 0.65	FL 0.8	L 1.0	L 1.2	C 1.0	C 1.2	C 1.4	C 1.8
Carbon steel	1	3.00	5.00			3.80			
	2	2.00	3.00			2.30			
	3	1.10	1.90	3.00		1.50	2.50		
	4	0.65	1.20	2.00		0.80	1.70		
	5	0.40	0.70	1.30	2.20	0.60	1.20	3.70	
	6	0.28	0.48	0.77	1.80		0.75	2.75	
	8	0.17	0.30	0.43	1.25		0.40	1.90	3.55
	10		0.15		0.75			1.25	2.55
	12							0.90	1.75
	15							0.53	1.20
	20							0.18	0.77
	25								0.42
	30								0.33
	35								0.18
	Stainless steel	1	2.00	3.50			3.50		
2		1.00	2.00			2.00			
3		0.60	1.00	2.20		0.90	2.20		
4			0.65	1.40		0.65	1.40		
5			0.40	0.80	1.50	0.36	0.90	2.50	
6			0.25	0.52	1.00		0.60	1.80	
8				0.33	0.60		0.24	0.97	3.25
10								0.67	2.15
12								0.53	1.30
15								0.24	0.80
20									0.40
25									0.27
30									0.18
35									0.12
Aluminium		1	4.50	6.00			8.00		
	2	2.80	4.80			5.00			
	3	1.70	2.80	4.50		3.00	4.00		
	4	1.20	1.80	3.00		1.80	2.80		
	5		1.20	1.90	3.00	1.20	2.30	4.00	
	6		0.60	1.20	2.00		1.60	3.20	
	8		0.45	0.60	1.40		0.90	2.50	4.55
	10				1.00			1.50	3.45
	12							1.20	2.55
	15								1.55
	20								1.00
	25								0.70
	30								0.40
	35								0.30



PLASMA

PLASMA range

SHARP TRANSFORMER				 25 MC	 40 MC
SHARP INVERTER	 10 KT	 10	 22		
Cutting current	30 A			65 A	80 A
Severance cut thickness	10 mm			25 mm	40 mm



PLASMA POWER SOURCES

SHARP 10KT + Torch CPT 800

The portable solution with integrated compressor for manual plasma cutting.

Features and product advantages:

- **Integrated compressor.**
- **Cutting:** up to 10 mm.
- **Weight:** only 16 kg.
- **Primary consumption:** < 16 A.
- **Digital display.**
- **Cutting without earth clamp** up to 2 mm.
- **Arc striking** without HF.
- Provided with 16 A plug.

INTEGRATED COMPRESSOR

WARRANTY
2 YEARS

Standards
EN 60974-1
EN 60974-7
EN 60974.10



PLASMA CUTTING EQUIPMENT

Cutting capacity (for steel)	
quality	severance
8 mm	10 mm



- 1 Digital display.
- 2 On-screen Volt/Ampère selector.
- 3 On-screen pressure selector.
- 4 Regulation of cutting intensity.

TECHNICAL CHARACTERISTICS:

	SHARP 10KT	
Single-phase power supply	230 V	
Input power	5.1 kVA - 3.4 kW	
Max input current	22.4 A	
Effective input current	11.5 A	
Air pressure and supply	Integrated	
Duty cycle (10 min cycle at 40 °C)	at 40%	30 A
	at 60%	20 A
	at 100%	15 A
Protection class	IP 23	
Insulation class	H	
Dimensions	470 x 205 x 370 mm	
Weight	16 kg	

TO ORDER:

SHARP 10KT + 4 m CPT 800 torch provided (1 electrode, 1 diffuser, 1 0.8 nozzle and 1 TN skirt) + power cable + earth cable with clamp + wear part kit (1 key, 1 electrode and 1 diffuser)	W000273294
Options	
Compass	W000302512
Wear part box	W000277610

Torch CPT 800

	Reference
Air-cooled CPT 800 - 4 m	W000275097
Torch body	W000274860

Spare parts CPT 800

	Reference
1 Electrode FL	W000274224
2 Diffuser	W000274266
3-1 Nozzle FL 0,65	W000274969
3-2 Nozzle FL 0.8	W000274265
4-1 Skirt TN	W000274226
4-2 Skirt Ti	W000274225
5 Mounting key	W000274862

SHARP 10 + Torch CPT 800



Features and product advantages:

- **Light:** easy to carry (only 8 kg).
- **Versatile:** cuts and perforates all conductive metals.
- **Contact cutting:** improves cutting quality while reducing fume emissions.
- **Complete:** everything included for immediate use.
- **Digital display:** for better regulation and optimal viewing of the parameters.
- **Arc striking:** without HF for a cleaner environment.

Cutting capacity (for steel)	
quality	severance
8 mm	10 mm



- 1 Digital display.
- 2 On-screen Volt/Ampère selector.
- 3 On-screen pressure selector.
- 4 Setting of cutting intensity.



Standards

EN 60974-1
EN 60974-7
EN 60974.10

TECHNICAL CHARACTERISTICS:

	SHARP 10	
Single-phase power supply	230 V	
Input power	5.1 kVA - 3.1 kW	
Max input current	23 A	
Effective input current	14 A	
Compressed air supply	> 100 l/min - 4 bars	
Current range	10 - 30 A	
Duty cycle at 40 °C	at 35%	30 A
	at 60%	25 A
	at 100%	20 A
Protection class	IP 23	
Dimensions	380 x 150 x 310 mm	
Weight	8 kg	

TO ORDER:

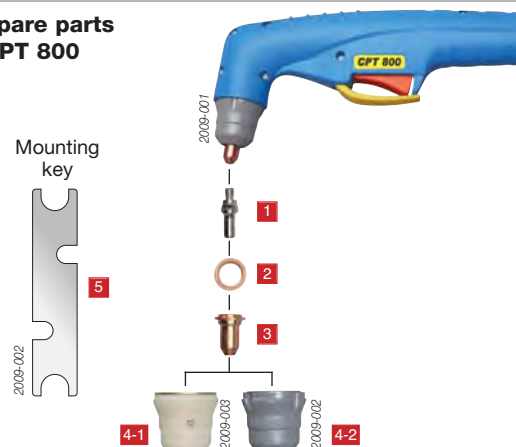
Power source + 4 m torch + power cable + fitted earth cable + wear part kit	W000277617
Options	
Compass	W000302512
Wear part box	W000277610

Torch CPT 800

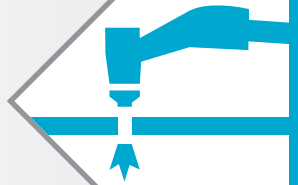


	Reference
Air-cooled CPT 800 - 4 m	W000275097
Torch body	W000274860

Spare parts CPT 800



	Reference
1 FL Electrode	W000274224
2 Diffuser	W000274266
3 FL 0.8 Nozzle	W000274265
4-1 TN Skirt	W000274226
4-2 Ti Skirt	W000274225
5 Mounting key	W000274862



**PLASMA POWER
SOURCES**

SHARP 22 + Torch CCT 2500



Features and product advantages:

- **Compact and light:** less than 25 kg and small in size. Easy to handle.
- **Power:** quality cutting up to 20 mm.
- **High performance:** max cutting intensity 65 A at 40% (40 °C) or at 100% (25 °C).
- **Gouging:** for bleeding.
- **Cutting of grids:** without arc striking.
- **Contact cutting:** improves cutting quality while reducing fume emissions.
- **Complete:** everything included for immediate use.
- **Arc striking:** without HF for a cleaner environment.



Standards
EN 60974-1
EN 60974-7
EN 60974.10

PLASMA CUTTING EQUIPMENT

Cutting capacity (for steel)	
quality	severance
20 mm	24 mm



- 1 Choice of process: cutting - cutting of grids - gouging. Air pressure. Primary voltage.
- 2 Setting of cutting intensity.

TECHNICAL CHARACTERISTICS:

		SHARP 22
Three-phase power supply		400 V
Input power		10.7 kVA - 8.3 kW
Max input current		15.5 A
Effective input current		12 A
Current range		10 - 65 A
Duty cycle	at 40%	65 A at 40 °C
	at 60%	50 A at 40 °C
	at 100%	65 A at 25 °C
Protection class		IP 23
Dimensions		435 x 235 x 380 mm
Weight		25 kg

TO ORDER:

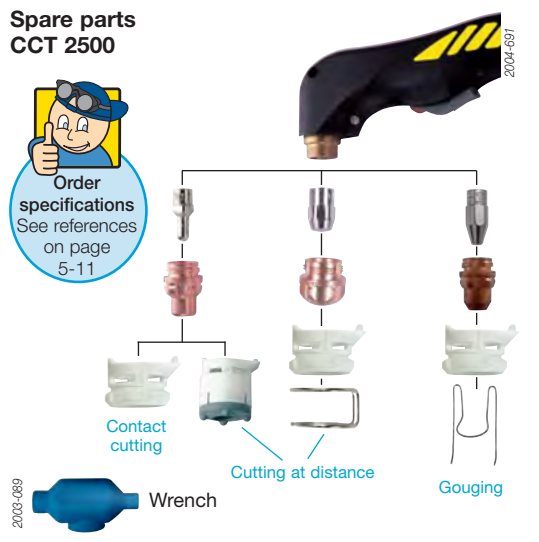
Power source + 5 m torch + power cable + fitted earth cable + air hose + wear part kit	W000262496
Options	
Compass	W000302512
Wear part box	W000277614

Torch CCT 2500



	Reference
Air cooled CCT 2500 - 5 m	W000302655
Air cooled CCT 2500 - 12 m	W000302656
Torch body	W000302529

Spare parts CCT 2500



SHARP 25 MC

+ Central Torch CCT 4000 - 6 m



Features and product advantages:

- **Power supply:** 220 V / 230 V / 380 V / 400 V three-phase.
- **Simple:** a single switch allows you to set the power at 3 positions.
- **Versatile:** cuts and perforates all conductive metals.
- **High performing:** high duty ratio 80 A at 40% at 40 °C.
- **Complete:** everything included for immediate use.
- **Arc striking:** without HF for a cleaner environment.

Cutting capacity (for steel)		
contact	quality	severance
8 mm	20 mm	25 mm



- 1 Defect indicator and reset button.
- 2 On/off switch.
- 3 Cutting torch.
- 4 Power selector.
- 5 Connector for earth cable.



Standards
EN 60974-1
EN 60974-7
EN 60974.10

TECHNICAL CHARACTERISTICS:

		SHARP 25 MC	
Three-phase power supply		230 V	400 V
Input power		18.7 kVA - 11.2 kW	
Max input current		47 A	27 A
Effective input current		29 A	17 A
Compressed air supply		180 l/min - 5 bars	
Current range		30 - 80 A	
Duty cycle at 40 °C	at 40%	80 A	
	at 80%	50 A	
	at 100%	30 A	
Protection class		IP 23	
Dimensions		500 x 855 x 705 mm	
Weight		80 kg	

TO ORDER:

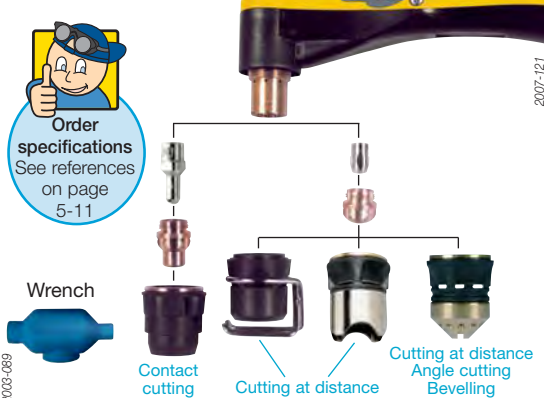
Power source + 6 m torch + power cable + fitted earth cable + air hose + wear part kit	W000275989
Options	
Compass	W000302512
Wear part box	W000277615

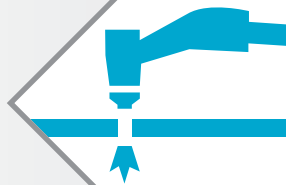
Torch CCT 4000



	Reference
Air cooled CCT 4000 - 6 m central	W000274858
Air cooled CCT 4000 - 15 m central	W000274859
Torch body	W000266534

Spare parts CCT 4000





**PLASMA POWER
SOURCES**

SHARP 40 MC

+ Central Torch CCT 4000 - 6 m



Features and product advantages:

- **Power supply:** 220 V / 230 V / 380 V / 400 V three-phase.
- **Simple:** a single switch allows you to set the power at 4 positions.
- **Versatile:** cuts and perforates all conductive metals.
- **High performing:** high duty ratio
120 A at 50% at 40 °C.
- **Complete:** everything included for immediate use.
- **Arc striking:** without HF for a cleaner environment.

Standards

- EN 60974-1
- EN 60974-7
- EN 60974.10

Cutting capacity (for steel)		
contact	quality	severance
8 mm	35 mm	40 mm



- 1 Defect indicator and reset button.
- 2 On/off switch.
- 3 Cutting torch.
- 4 Power selector.
- 5 Connector for earth cable.



PLASMA CUTTING EQUIPMENT

TECHNICAL CHARACTERISTICS:

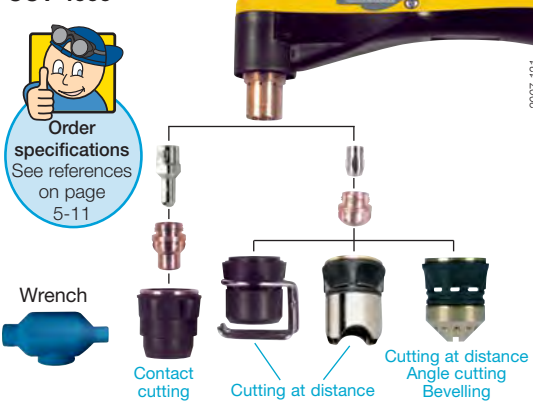
	SHARP 40 MC	
Three-phase power supply	230 V	400 V
Input power	27.7 kVA - 18.4 kW	
Max input current	70 A	40 A
Effective input current	50 A	28 A
Compressed air supply	220 l/min - 5.5 bars	
Current range	30 - 120 A	
Duty cycle at 40 °C	at 40%	120 A
	at 80%	85 A
	at 100%	50 A
Protection class	IP 23	
Dimensions	500 x 855 x 705 mm	
Weight	125 kg	

**Torch
CCT 4000**



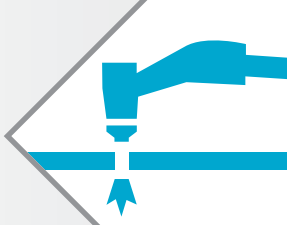
	Reference
Air cooled CCT 4000 - 6 m central	W000274858
Air cooled CCT 4000 - 15 m central	W000274859
Torch body	W000266534

**Spare parts
CCT 4000**



TO ORDER:

Power source + 6 m torch + power cable + fitted earth cable + air hose + wear part kit	W000275990
Options	
Compass	W000302512
Wear part box	W000277615










PLASMA WEAR PARTS






Spare parts for torches CCT 500, 1000, 2500 and 3000

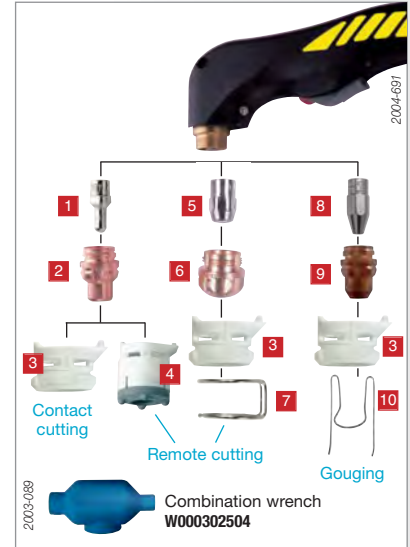
Name	SHARP 22	SHARP 25MC	SHARP 40MC
FL Electrode	×	×	×
C Electrode	×	×	×
L Electrode	×		
FL 0,65 Nozzle	×		
FL 0,8 Nozzle	×	×	×
L 1,0 Nozzle	×	×	×
FL 1,2 Nozzle	×	×	×
C 1,0 Nozzle	×	×	×
C 1,2 Nozzle	×	×	×
C 1,4 Nozzle		×	×
C 1,8 Nozzle			×
G 2,0 Nozzle - CCT 2500	×		
TN Skirt	×	×	
Ti projection skirt	×		
Contact cutting skirt - CCT 4000			×
Remote cutting skirt - CCT 4000			×
Corrugated skirt - CCT 4000			×
Conical skirt - CCT 4000			×
Remote cutting shoe	×	×	
Remote cutting shoe - CCT 4000			×
Gouging shoe - CCT 2500	×		
Combination wrench	×	×	×

× Wear parts delivered with the generator.
 × Wear parts can be used.

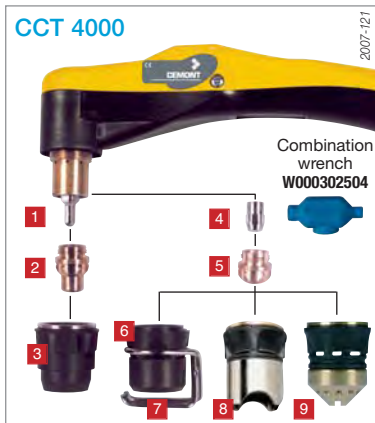
Contact cutting		Reference
Electrode		FL W000302501
Nozzle		FL 0.65 W000302502
		FL 0.8 W000302505
		L 1.0 W000302627
		L 1.2 W000302506
Skirt		TN W000302503








Gouging		Reference
Electrode		L W000271397
Nozzle		G 2.0 W000302528
Skirt		TN W000302503
Gouging shoe		W000302532

Remote cutting		Reference
Electrode		FL W000302501
		C W000302508
Nozzle		FL 0.65 W000302502
		FL 0.8 W000302505
		L 1.0 W000302627
		L 1.2 W000302506
		C 1.0 W000302625
		C 1.2 W000302626
Skirt		C 1.4 W000302526
		TN W000302503
		Ti projection W000302507
Shoe at distance		W000270054



Spare parts for torch CCT 4000



Contact cutting				
	Electrode FL	Nozzle		Contact skirt
				
Reference	W000302501	FL 0.8 W000302505	L 1.0 W000302627	L 1.2 W000302506
Previous ref	W000050272	-	W000050279	W000050280
Remote cutting				
	Electrode C	W000302508		Skirt at distance W000302511
	Nozzle	C 1.0 W000302625		Shoe at distance W000302519
		W000050277		
		C 1.2 W000302626		Corrugated skirt W000271309
		W000050626		
		C 1.4 W000302526		Conical skirt W000274978
C 1.8 W000302523				