



PLASMATECH
CEA PLASMA CUTTING DIVISION



22.03 ENG

SHARK 55

SINCE 1950





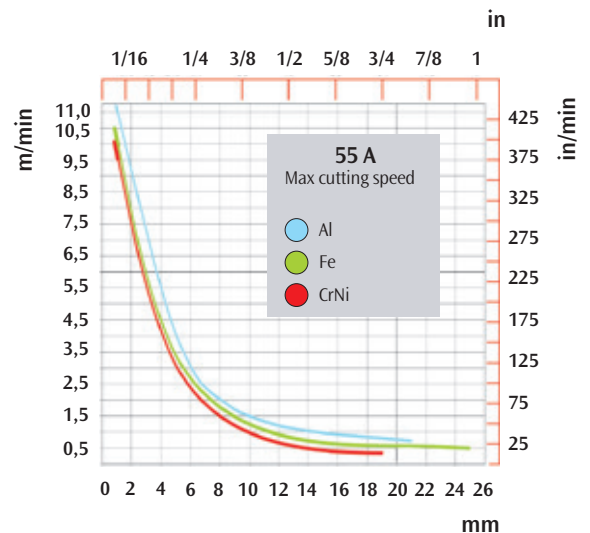
Powerful and compact, SHARK 55 is the most efficient solution to fully meet the cutting needs of medium and light fabrication work. Its always precise cutting performance enables the achievement of the highest standards in all circumstances. Top quality cutting is achieved at high speed thanks to SK75 HPC High-Performance-Cutting technology torch, which offers a powerful and concentrated cutting beam.

- ✓ SK75 torch with HPC High Performance Cutting technology and coaxial cable
- ✓ Powerful, compact and light, only 15 Kg
- ✓ More productivity thanks to high quality and cutting speed
- ✓ Reduced operating costs granted by longer life of the consumable parts



- ▶ Electronic control for an excellent cutting quality
- ▶ Professional high flow air circulation
- ▶ Pilot arc torch
- ▶ Possibility of cutting grids and perforated lamination sheets
- ▶ Contact cutting possibility
- ▶ “Energy Saving” function to operate the power source cooling fan only when necessary
- ▶ Cutting parameter stability within $\pm 15\%$ mains voltage fluctuations
- ▶ Shockproof and dustproof control rack protection cover
- ▶ Electric protection on the torch for the maximum safety of the operator

CUTTING SPEED CHART



SK75



SKM75



Possibility of CNC automated cutting for SHARK 75-M power source when fitted with SKM75 machine torch



234926



418508



343956



410684



427529



427530



418487

TECHNICAL DATA

			SHARK 55
Input Voltage 50/60 Hz		V	400-3ph
Input Power @ I ₂ Max		kVA	10
Delayed Fuse (I eff)		A	10
Power factor / cos φ			0,63 / 0,99
Efficiency Degree		%	85
Current range		A	20 ÷ 55
Duty Cycle at (40°C)	100%	A	35
	60%	A	45
	x%	A	55 (40%)
Motorgenerator requirement for full capacity		kVA	16
Cutting Capacity	Recommended	mm	15
	Maximum	mm	20
	Severance	mm	25
	Piercing	mm	12
Gas supply			Aria / N ₂
Gas Pressure		bar	5,0 - 5,5
Gas Flow		l/min	170 ÷ 190
Protection Class		IP	23 S
Dimensions		mm	390x185x595
Weight		Kg	15

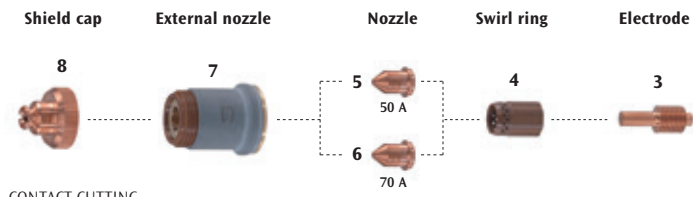
ORDER INFORMATION

CODE	MANUAL CUTTING
004480	SHARK 55 400V-3 Ph. with SK75 torch - 6 m, 10mm ² / 4m ground cable & kit of spares (343962)
004484	SHARK 55 400V-3 Ph. with SK75 torch - 12 m, 10mm ² / 4m ground cable & kit of spares (343962)
PLASMA TORCH	
022029	Manual Torch SK75 6 m 70 A
022033	Manual torch SK75 12m 70A
343956	Consumable Basic Kit Box for SK75
343962	Consumable Starting Kit for SK75: 1 Electrode, 2 Nozzles 70 A, 1 Shield cap
ACCESSORIES	
418487	Compass for SK75/SK125 torch
410684	Wheeled torch holder
418508	Bevel Tool Kit: guide carriage and circle attachment for straight and bevel cutting
234926	Transport Trolley CTP 10
427529	Compressed air filter
427530	Filter cartridge. Package of 4 pcs
CODE	MECHANIZED CUTTING
004481	SHARK 55-M 400V-3 Ph. with SKM75 torch 6 m - 10 mm ² / 4 m ground cable
004482	SHARK 55-M 400V-3 Ph. with SKM75 torch 12 m - 10 mm ² / 4 m ground cable
PLASMA TORCHES	
022073	Machine Straight Torch SKM75 6 m - 70 A with gear rack
022080	Machine Straight Torch SKM75 12 m - 70 A with gear rack

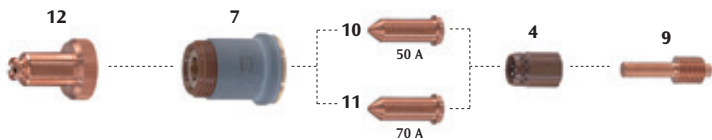
Other voltages available on request

SK75

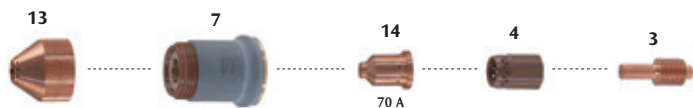
SKM75



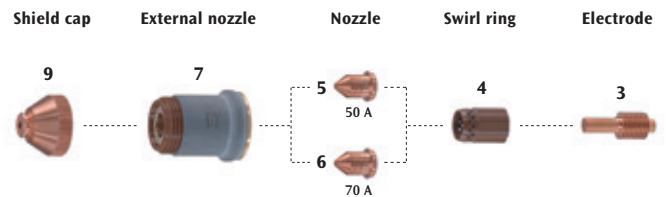
CONTACT CUTTING



EXTENDED ELECTRODE CONTACT CUTTING



70 A GOUGING



MECHANIZED CUTTING



	CODE	DESCRIPTION	QTY.		
1	422674	Torch body	1		
2	433605	O-ring	20		
3	425022	Electrode	5	•	
4	482134	Swirl ring	2	•	
5	408609	Nozzle 50 A	10		
6	408610	Nozzle 70 A	10	•	
7	486049	External nozzle	1	•	
8	487630	Shield cap (manual cut)	2	•	
9	425059	Extended electrode	5		
10	408623	Extended nozzle 50 A	5		
11	408624	Extended nozzle 70 A	5		
12	424490	Extended Shield cap (manual cut)	2		
13	487642	Shield cap (gouging)	2		
14	408635	Nozzle for gouging 70 A	10		

	CODE	DESCRIPTION	QTY.		
1	422676	Torch body	1		
2	433605	O-ring	20		
3	425022	Electrode	5	•	
4	482134	Swirl ring	2	•	
5	408609	Nozzle 50 A	10		
6	408610	Nozzle 70 A	10	•	
7	486049	External nozzle	1	•	
8	486027	External nozzle with ohmic sensor	1		
9	487629	Shield cap (mechanized cutting)	2	•	

• Assembled on SK75 torch when supplied with the equipment

• Assembled on SKM75 torch when supplied with the equipment