



FLEXCUT

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FLEXCUT 80
AIR PLASMA CUTTING SYSTEM

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K4809-1 FlexCut 80 Base Model (w/o Torch)

BK12849-25 LC100M Machine Plasma Torch (Torch Sold Separately)

Heavy-Duty, 80 Amps

FlexCut® 80

Whether you're cutting fine artwork or fabricating steel parts in a production setting, you want a plasma solution that will give you the cleanest and fastest cuts possible. With 80 amps at 80% duty cycle, the FlexCut 80 adds power to the speed and precision equation.

Built on an inverter platform, the FlexCut 80 is a constant current, plasma cutting power source that delivers faster cut speeds, optimal cut performance, and durability. The result is a superior cut with minimal dross – which minimizes the need for a secondary operation. Regardless of whether you are mechanized cutting or hand cutting, our patent-pending consumable designs provide up to three times longer consumable life than competitors. The FlexCut 80 has the potential to significantly reduce your operating costs.

FlexCut 80 initiates the plasma arc with a simple yet reliable touch-start mechanism that eliminates many of the failure problems associated with high-frequency start systems. The control system includes a Parts-in-Place™ feature to ensure that the consumables are in place before starting the cutting or gouging process.

If you value cut quality, productivity, and lower operating costs, then go ahead and make the cut with the FlexCut 80.



SMALL SETTING, HIGH PERFORMANCE

Best Cut Performance

FlexCut 80 is designed to deliver on all fronts. Whether you're piercing up to 3/4 in. (19 mm) mild steel material in a mechanized cutting application, or cutting expanded metal, you can count on less edge bevel and superior edge quality compared to competing cutting systems.

Durability and Reliability

Although designed and built for the small to medium-size jobs, FlexCut 80 doesn't back away from the hard jobs. In addition to delivering perfect arc starts without high frequency, the patented consumable design enables this cutting torch to provide superior consumable life. Also, the IP23 rating makes FlexCut 80 rugged enough for use outdoors as well as indoors.

Flexibility

FlexCut 80 is a machine for all seasons. Choose 1-phase or 3-phase, 200- to 575- volt input power for cutting, gouging and grid-cutting tasks. In addition, you have a choice of numerous mechanized and handheld torch consumables for a wide range of mechanized or handheld applications.

Easy to Set, Easy to Use

The sooner your plasma cutting operation can get started, the more productive it will be. FlexCut 80 requires very little time or effort to get down to the business of cutting. Controls are simple, which makes setup easy, and you can get a consistent and reliable arc without needing to rely on high-frequency start systems.

Processes »

Plasma Cutting, Gouging

Cutting Type »

Mechanized Cutting, Hand Cutting

Applications »

- Steel Fabrication
- Pipe Cutting
- Structural Steel Fabrication
- Automotive/Transportation
- Construction
- Shipbuilding
- Steel Service Center
- Artwork and Signs

Output »



Input »



Product Number »

K4809-1

Controls »

FRONT

1. CUTTING OPERATING MODE SELECTION
2. PRIMARY AIR, GAS PRESSURE GAUGE AND REGULATOR KNOB
3. TORCH CONNECTION
4. CUT, GRID, GOUGE LED
5. POWER ON/OFF GREEN LED
6. OUTPUT RED LED
7. THERMAL YELLOW LED
8. GAS PRESSURE YELLOW LED
9. PARTS-IN-PLACE (PIP) YELLOW LED
10. OUTPUT CURRENT KNOB
11. CNC INTERFACE
12. WORK GROUND

BACK

13. INPUT CORD - 10 ft. (3.0 M)
14. POWER SWITCH
15. AIR OR GAS INLET
(1/4 in. NPT QUICK CONNECT)
16. FAN



FLEXCUT 80 SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Gas Pressure Required	Gas Flow Rate	H x W x D in (mm)	Net Wt. lb (kg)
FlexCut 80 Base Model (w/o Torch)	K4809-1	200-208/230/380/460/575/3/50/60	60A/140V/100% 80A/140V/80%	3PH/100% 31/28/16/14/12 3PH/80% 41/37/21/18/14	3PH 25-80A	87 to 109 PSI (6.0-7.5 Bar)	380 SCFH @ 80 PSI 180 SLPM @ 5.5 Bar	179 x 11.8 x 25.4 (455 x 301 x 645)	96 (44)
		230/1/50/60	60A/140V/100% 80A/140V/80%	1PH/100% 48 1PH/80% 62	1PH 25-80A				
		200-208/1/50/60	60A/140V/100% 80A/140V/60%	1PH/100% 52 1PH/60% 71	25-80A				

MECHANIZED CUTTING CAPACITY AT MAX OUTPUT 80A

Material	Cutting Capacity	Material Thickness in. (mm)	Travel Speed ipm (mm/min)	Cutting Gas
Mild Steel	Maximum Production Cut Capacity (pierce start) Maximum Cut Capacity (edge start)	1/4 in. (6 mm) 1/2 in. (12 mm) 3/4 in. (20 mm) 1 in. (25 mm) 1-1/4 in. (32 mm)	148 ipm (3759 mm/min) 52 ipm (1320 mm/min) 26 ipm (660 mm/min) 14 ipm (355 mm/min) 6 ipm (152 mm/min)	Air
Stainless Steel	Maximum Production Cut Capacity (pierce start) Maximum Cut Capacity (edge start)	1/4 in. (6 mm) 1/2 in. (12 mm) 5/8 in. (16 mm) 3/4 in. (20 mm) 1 in. (25 mm)	150 ipm (3810 mm/min) 44 ipm (1117 mm/min) 28 ipm (711 mm/min) 21 ipm (533 mm/min) 12 ipm (304 mm/min)	Air
Aluminum	Maximum Production Cut Capacity (pierce start) Maximum Cut Capacity (edge start)	1/4 in. (6 mm) 1/2 in. (12 mm) 5/8 in. (16 mm) 3/4 in. (20 mm) 1 in. (25 mm)	174 ipm (4419 mm/min) 65 ipm (1651 mm/min) 46 ipm (1168 mm/min) 34 ipm (863 mm/min) 17 ipm (431 mm/min)	Air

FLEXCUT 80 TORCHES, CONSUMABLES AND ACCESSORIES	PRODUCT NUMBER	QUANTITY
MACHINE AND HAND TORCHES		
LC100M Machine Plasma Torch, No Rack 25 ft. (7.6 m)	BK12849-25	
LC100M Machine Plasma Torch, No Rack 50 ft. (15.2 m)	BK12849-50	
LC100M Machine Plasma Torch With Rack 25 ft. (7.6 m)	BK12849-25R	
LC100M Machine Plasma Torch With Rack 50 ft (15.2 m)	BK12849-50R	
LC105 Handheld Plasma Torch 25 ft. (7.6 m)	K2849-1	
LC105 Handheld Plasma Torch 50 ft. (15.2 m)	K2849-2	
CONSUMABLES-MACHINE CUTTING		
Electrode- (LC100M)	BK12849-3	5 per pack
Swirl Ring- (LC100M)	BK12849-9	2 per pack
Nozzle- (Precision Cut) (LC100M)	BK12849-11	5 per pack
Nozzle- (40A) (LC100M)	BK12849-4	5 per pack
Nozzle- (60A) (LC100M)	BK12849-5	5 per pack
Nozzle- (80A) (LC100M)	BK12849-6	5 per pack
Retaining Cap- (LC100M)	BK12849-21	1 per pack
Retaining Cap, CTP- (LC100M)	BK12849-22	1 per pack
Shield Cap- (Precision Cut) (LC100M)	BK12849-18	2 per pack
Shield Cap- (40A) (LC100M)	BK12849-14	2 per pack
Shield Cap- (60A-80A) (LC100M)	BK12849-15	2 per pack
CONSUMABLES-HAND CUTTING		
Electrode- (LC105)	KP4141-1	5 per pack
Swirl Ring- (LC105)	KP4141-9	2 per pack
Nozzle - (40A) (LC105)	KP4141-4	5 per pack
Nozzle - (60A) (LC105)	KP4141-5	5 per pack
Nozzle - (80A) (LC105)	KP4141-6	5 per pack
Retaining Cap- (LC105)	KP4141-8	1 per pack
Drag Shield Cap - (40A) (LC105)	KP4141-14	2 per pack
Drag Shield Cap - (50A-80A) (LC105)	KP4141-15	2 per pack
Gouging Shield Cap - (80A) (LC105)	KP4141-17	2 per pack
Gouging Nozzle - (80A) (LC105)	KP4141-18	5 per pack
CNC INTERFACE CABLES FOR MACHINE CUTTING		
CNC Interface Cable, FlexCut, 25 ft (7.6 m)	K4400-25	
CNC Interface Cable, FlexCut, 50 ft (15.2 m)	K4400-50	

FLEXCUT 80 CONSUMABLE KIT	PRODUCT NUMBER	QUANTITY
CONSUMABLES STARTER KIT FOR LC100M MACHINE PLASMA TORCH	BK12849-SK	
Electrode (LC100M)		5
Swirl Ring (LC100M)		1
Nozzle- (40A) (LC100M)		1
Nozzle- (60A) (LC100M)		2
Nozzle- (80A) (LC100M)		2
Retaining Cap-CTP (LC100M)		1
Shield Cap- (40A) (LC100M)		1
Shield Cap- (60A-80A) (LC100M)		1



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