

PowerCut 1300

Plasmarc cutting package



1 Phase 3 Phase 3 YEAR WARRANTY 100% DUTY CYCLE

- Rugged design - Durable external housing design is damage-resistant, corrosion-resistant and weather-resistant, while remaining lightweight for portability
- Input voltage selector switch - conveniently located on back of the machine, lets you easily change input voltage from 208 to 460
- Tool-less Quick Disconnect torch disconnects from machine for storage, repairs, or replacement without the use of wrenches or special tools, or to attach a PT-37 mechanized torch
- Digital readout display is easy to read and shows exact pressures or amperage. Display also shows help codes to assist in troubleshooting
- Switch between gouge, grate and normal modes automatically, tailoring your application without manually changing settings on console
- Delivers the extra output voltage needed for superior plasma gouging capability
- Torch wrap and spare parts kit holder is standard on all packages
- Blowback technology eliminates high-frequency startups that can disrupt CNC controls and nearby computer systems
- Sensitive internal electronics are suspended from the aluminum frame, insulating them from shock and vibration
- Silicone-sealed switches are immune to corrosion and dust and dirt infiltration
- Automatic fan control allows cooling fan to run only when necessary – conserves energy and reduces ingested dust and dirt
- Built-in power line conditioner protects against damage from power line noise and spikes, even with poor-quality power
- Plug-n-Play mechanized option lets you easily transform your manual cutting system into a powerful mechanized system for your gantry machine
- Optional five year warranty on console
- One year warranty on torch



PowerCut 1300 makes plasma cutting easier and more economical than ever before, delivering reliability, high production and a wide variety of performance features. With design features that simplify operation, reduce set-up time and enhance consumable life, it lets you spend less time troubleshooting and more time cutting.

Specifications

		PowerCut 1300
Cuts		1 ¼ in. (32 mm)
Severs		1 ½ in. (38 mm)
Output		
	60% Duty Cycle	70 A (1 phase)
	100% Duty Cycle	70 A (3 phase)
Input		
	1 phase	208/230 V 50/60 Hz, 70/60 A
	3 phase	208/230/400/460/575 V 50/60 Hz, 36/31/18/20/15 A
Recommended Engine Driven Generator Power		1 phase 230 V = 14 kw 3 phase 230 V = 12.5 kw 3 phase 460 V = 16 kw
Air requirements		400 cfm @ 80 psig (165 l/min @ 4.8 - 5.2 bar)
Dimensions		
	Length	27.8 in. (706 mm)
	Height	14.9 in. (378 mm)
	Width	12.7 in. (323 mm)
	Weight	90 lbs. (41 kg)

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PT-37 and PT-38 Torch

PowerCut 1300 uses the PT-38 torch or attach a PT-37 mechanized torch for mechanized applications. For breakdown of parts and cut-speed charts, refer to PT-38 data page 39.

Ordering Information

The PowerCut 1300 comes complete with everything you need: console, torch, torch spare parts kit, air filter/regulator, power cable, 25 ft. (7.6 m) work cable with clamp. System arrives fully assembled and ready to cut.

PowerCut 1300 / PT-38 Packages

208-230/460 V, 25 ft. (7.6m)	0558007221
208-230/460 V, 50 ft. (15.2m)	0558007222
575V, 25 ft. (7.6m)	0558007228
575V, 50 ft. (15.2m)	0558007229

Standard Console with Mechanized Torch, PT-37 **

Mechanized Hand Switch, 25 ft with rack	0558008178
Mechanized Hand Switch, 50 ft with rack	0558008179

PowerCut 1300 Packages with CNC Interface*

Mechanized CNC, PT-37, 25 ft.....	0558008170
Mechanized CNC, PT-37, 50 ft.....	0558008171
Mechanized CNC, 25 ft. with rack	0558008172
Mechanized CNC, 50 ft. with rack	0558008173
Mechanized CNC, 575 V, 25 ft. with rack.....	0558009198
Mechanized CNC, 575 V, 50 ft. with rack.....	0558009199
Mechanized CNC, PT-38, 25 ft.....	0558008182
Mechanized CNC, PT-38, 50 ft.....	0558008183

Note:

* Package includes torch holder, spare parts kit and CNC interface cable.

** Package includes remote hand switch.

PT-37 Replacement Torch

With rack 4.5ft. (1.3m).....	0558004860
With rack 17 ft. (5.2m).....	0558004861
With rack 25 ft. (7.6m).....	0558004862
With rack 50 ft. (15.2m).....	0558004863
Without rack 4.5 ft. (1.3m)	0558004894
Without rack 17 ft. (5.2m)	0558004895
Without rack 25 ft. (7.6m)	0558004896
Without rack 50 ft. (15.2m)	0558004897

PT-38 Replacement Torch

25 ft. (7.6 m)	0558006786
50 ft. (15.2 m)	0558006787

Optional Accessories

70 A Spare Parts Kit, PT-38	0558007641
Plasma Flow Measuring Kit	0558000739
Torch Guide Kit	
Deluxe: 1 ¾ in. (44.5mm) 42 in. (106cm) Radius	0558003258
Basic: 1 ¾ in. (44.5mm) 28 in. (71cm) Radius.....	0558002675
Remote Hand Switch, 25 ft.	0558008349
Stand-off Guide	0558006614
40 A Drag Nozzle	0558007682
Utility Cart	0558007898
Gouging Heat Shield	0558008186
Gouging Nozzle	0558007681
CNC Cable interface 30 ft	57002248
Plug-n-Play Mechanized Kit	0558007885
Heavy Duty Water Separator	0558007897

See Plasmarc Accessories Section for more details.

Optional Five Year Warranty

This optional five year warranty is now available for PowerCut series machines. See your authorized ESAB Representative for additional details.

PowerCut 1300 Extended Warranty.....XWPC1300*

Spare Parts Kit

Description	Part Number	0558007641
Electrode	0558005220	3
Insulator 30 - 70 A	0558005217	1
Nozzle 70 A	0558005219	4
Nozzle Drag 40 A	0558007682	1
Retaining / Shield Cup Assy	0558007549	1
O-Ring .301ID .070W Nitrile	0558101101	3
Lubricant. 25 oz	0558000443	1
Fuse Midget	0558001379	1
SLO-BLO 2 A 600 V		

Cut Speed Chart (70 A)

Thickness		Cut Speeds		
inches	millimeters	ipm	mm/min	
0.125	3.1	275	6,985	Recommended
0.25	6.3	130	3,302	
0.375	9.5	65	1,651	
0.5	12.7	45	1,143	
0.625	15.8	33	838	
0.75	19	26	660	
1	25.4	12	304	
1.25	31	10	254	Max.
1.5	38	5	127	