



POWERCUT® 1600 PLASMARC™ CUTTING PACKAGE

PowerCut® 1600 Plasmarc™ Cutting Package

PowerCut® 1600 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.

- *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*
- *Three-year warranty on console*
- *Optional five-year warranty on console*
- *One-year warranty on torch*



3
YEAR
WARRANTY
optional 5-year
warranty available

PowerCut

Specifications

| | |
|------------------|---|
| Cuts | 1-1/2 in. (38 mm); severs 1-3/4 in. (44 mm) |
| Output: | 40% duty cycle 90A (1 ph) |
| | 60% duty cycle 90A (3 ph) |
| Input 1 phase | 230 VAC, 50/60 Hz., 78 A |
| Input 3 phase | 208/230 VAC, 50/60 Hz, 47/41 A |
| Input 3 phase | 230/460 VAC, 50/60 Hz, 41/25 A |
| Input 3 phase | 400 VAC, 50/60 Hz, 26 A |
| Input 3 phase | 575 VAC, 50/60 Hz, 11 A |
| Air requirements |400 cfm at 80 psig (165 l/min. @ 4.8-5.2 bars) |
| Dimensions: | Length 27.80" (706 mm) |
| | Height..... 14.90" (378 mm) |
| | Width..... 12.70" (323 mm) |
| Weight | 90 lbs. (41 kg) |

Torches

PT-38 Hand Torch

PowerCut® 1600 uses the PT-38 torch. For breakdown of parts and cut-speed charts, refer to PT-38 data page 39.

PowerCut® 1600 also uses the new PT-37 mechanized torch, refer to PT-37 data page 37.

Ordering Information

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|---|-------------|
| PowerCut® 1600 208-230/460V, 25 ft. (7.6mm) PT-38..... | 0558007231 |
| PowerCut® 1600 208-230/460V, 50 ft. (15.2mm) PT-38..... | 0558007232 |
| PowerCut® 1600 208-230/460V, BL, 25 ft. (7.6mm) PT-38 ... | 0558007231F |
| PowerCut® 1600 575V, BL, 25 ft. (7.6mm) PT-38..... | 0558007238 |
| PowerCut® 1600 575V, BL, 50 ft. (15.2mm) PT-38..... | 0558007239 |
| PowerCut® 1600 400V, 25 ft. (7.6mm) PT-38..... | 0558007637 |
| PowerCut® 1600 400V, CE, 25 ft. (7.6mm) PT-38..... | 0558007235 |
| PowerCut® 1600 400V, CE, 50 ft. (15.2mm) PT-38..... | 0558007236 |

Note: "CE" Items are used outside North America
"BL" Items are used in Canada

Instruction Literature, order numbers

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|--------------------------------------|-----------|
| PowerCut® 1600..... | 055807164 |
| Sales Literature, order number | PAC-21168 |



Optional Accessories

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|--------------------------------------|------------|
| 90 amp Spare Parts Kit 400V CE..... | 0558007640 |
| 90 amp Spare Parts Kit | 0558007639 |
| Plasma Flow Measuring Kit | 19765 |
| Torch Guide Kit | |
| Basic..... | 0558002675 |
| Deluxe..... | 0558003258 |
| Remote Hand Switch..... | 0558003612 |
| Stand-off Guide | 0558006614 |
| 40 amp Drag Nozzle..... | 0558007682 |
| Utility Cart..... | 0558007898 |
| Gouging Heat Shield | |
| Retaining Cup..... | 0558006611 |
| Shield..... | 0558006601 |
| Gouging Nozzle..... | 0558007681 |
| CNC Cable interface 50ft..... | 0558004215 |
| Plug N Play Mechanized kit..... | 0558007885 |
| Heavy Duty Water Separator..... | 0558007897 |
| PowerCut 1600 Extended Warranty..... | XWPC1600* |

Optional Five-Year Warranty

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

Standard Console with Mechanized Torch **

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|---|------------|
| PowerCut® 1600 Mechanized Hand Switch, 25 ft w/ rack..... | 0558008180 |
| PowerCut® 1600 Mechanized Hand Switch, 50 ft w/ rack..... | 0558008181 |

PowerCut 1300 Packages with CNC Interface *

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|---|------------|
| PowerCut® 1600 Mechanized CNC, 25ft | 0558008174 |
| PowerCut® 1600 Mechanized CNC, 50ft | 0558008175 |
| PowerCut® 1600 Mechanized CNC, 25ft w/ rack | 0558008176 |
| PowerCut® 1600 Mechanized CNC, 50ft w/ rack | 0558008177 |
| PowerCut® 1600 Mechanized CNC, PT-38, 25 ft | 0558008184 |
| PowerCut® 1600 Mechanized CNC, PT-38, 50 ft..... | 0558008185 |

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

** Package includes Remote hand Switch.