

PowerCut® 650 Cutting Package

- Manually cuts 5/8 in. (15.9 mm) and severs 3/4 in. (19.0 mm)—powerful cutting performance
- Economically priced—tremendous cutting value for the money
- Compact portable design—goes to the job, easily moved about
- Delivers big machine cutting power in a rugged, lightweight package
- Arrives ready to cut, with torch connected and front-end parts in place, for the ultimate in operator convenience
- Trigger lock-in for long-cut operator comfort
- Adjustable output—tailor the current to the material being cut
- Compact simple torch—easy access, little maintenance
- New, durable torch cable prevents snagging on fixtures and materials
- Patented XT nozzles—extended shape gives good visibility as well as good consumable life
- Drag or standoff cutting—easy operation with little or no training
- Template following feature—easily duplicates curves or straight lines
- Tolerates poor power lines
- Three-year warranty on console
- One-year warranty on torch
- Optional Five-year warranty

Specifications

Cuts 5/8 in. (15.9 mm); severs 3/4 in. (19.0 mm)	
Output:	40% duty cycle 40A/120V
	60% duty cycle 30A/120V
	100% duty cycle 22A/120V
Output Current Range	..... 10 to 40 Amperes
Open Circuit Voltage	..... 290 Vdc Nominal
Input @ 40A/120V	..... 208/230 VAC, 1 ph. 50/60 Hz., 35/32 amps
Input @ 40A/120V	..... 230 VAC, 1 Phase, 50/60 Hz, 35/32 Amps
Input @ 40A/120V	..... 400 VAC, 3 Phase, 50/60 Hz, 9/6 Amps
Input @ 40A/120V	..... 460 VAC, 3 Phase, 50/60 Hz, 8/5 Amps
Power factor @ 40A Output	..... 76% (1 Phase)
Efficiency @ 40A Output	..... 85% (Typical)
Air requirements	..... 250 cfh at 80 psig
Dimensions:	
Length	..... 19.00" (483mm)
w/ handles	..... 25.70" (653mm)
Height	..... 16.50" (419mm)
Width	..... 12.50" (318mm)
w/ Opt. torch wrap	..... 15.50" (394mm)
Weight (less torch & work cable)	..... 53 lbs. (24 kg)



PowerCut

The PowerCut® 650 comes out of the box ready to go! The torch is attached with parts in place, primary cord is attached and the filter/regulator is installed. Just hook up the air, plug it in and cut.

Torch

Uses PT-31XLPC

For a complete list of torch parts, refer to PT-31XLPC data page.

How To Order

The PowerCut® 650 comes complete with everything you need: console, PT-31XLPC torch, torch spare parts kit, air filter/regulator, input power cord with plug, 25 ft. (7.6 m) work cable with clamp. System arrives fully assembled and ready to cut.

Ordering Information

PowerCut® 650 / PT-31XLPC package

208/230 vac 1 ph. 25 ft. (7.6 m) PT-31XLPC	.....0558003180
208/230 vac 1 ph. 50 ft. (15.2 m) PT-31XLPC	.....0558005696
460 vac 3 ph. 25 ft. (7.6 m) PT-31XLPC	.....0558005329
460 vac 3 ph. 50 ft. (15.2 m) PT-31XLPC	.....0558005330

Export Models

230V 1/3 ph "CE" 25 ft. (7.6 m) PT-31XLPC	.....0558004800
400V 3 ph "CE" 25 ft. (7.6 m) PT-31XLPC	.....0558004801

Note: "CE" Items are used outside North America

Instruction Literature, order number	..... F-15-696
Sales Literature, order number	..... PAC-21087
Multi Language Instruction Manuals	.....0558005362

Optional Accessories

Torch Guide Kits

The Deluxe kit, in a rugged plastic carrying case, includes attachments for circle and straight line cutting on ferrous and non-ferrous metals. See Plasmarc Accessories Section for more details.

- Deluxe: 1-3/4 in. (44.5 mm) - 42 in. (106 cm) Radius 0558003258
- Basic: 1-3/4 in. (44.5 mm) - 28 in. (71 cm) Radius 0558002675

Plasma Flow Measuring Kit

This valuable troubleshooting tool allows measurement of the actual plasma gas flow through the torch 19765
Input Receptacle, 230vac/50amp, 3 prong 674540

Torch Wrap and Spare Parts Kit Holder

This enables operator to store S/P Kit, wrap torch and work cable for easy transport and storage..... 0558003398

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® 650 Extended Warranty

Extended Warranty to 5 Years..... XWPC650

For Illustrations of optional accessories please refer to Accessories Section 2-55

PT-31XLPC Replacement Torch

- 25 ft. (7.6 m) 75° head 0558003183
- 50 ft. (15.2 m) 75° head 0558005334

Replacement "CE" PT-31XLPC Torch

- PT-31XLPC 25 ft. (7.6 m) 75° head 0558005393
- comes assembled with long "CE" heatshield

Torch comes assembled with Heat Shield, Nozzle, Electrode, and Swirl Baffle.

PT-31XLPC Spare Parts Kit (P/N 0558003301)

includes:

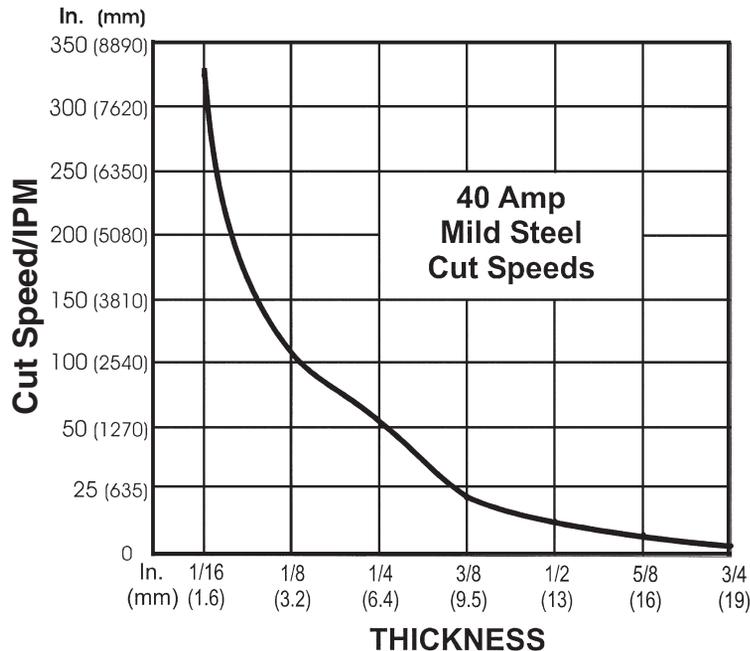
- 1 Heat Shield 20282
- 3 Nozzles (High Performance)..... 20860
- 1 Swirl Baffle..... 20463
- 2 Electrodes..... 20862
- 1 Lubricant (0.25 oz.)..... 17672

PT-31XLPC "CE" Spare Parts Kit (P/N 0558005392)

includes:

- 1 "CE" Long Heat Shield 36284
- 3 Nozzles (High Performance)..... 20860
- 1 Swirl Baffle..... 20463
- 2 Electrodes 20862
- 1 Lubricant (.025 oz.)..... 17672

Note: "CE" Items are used outside North America

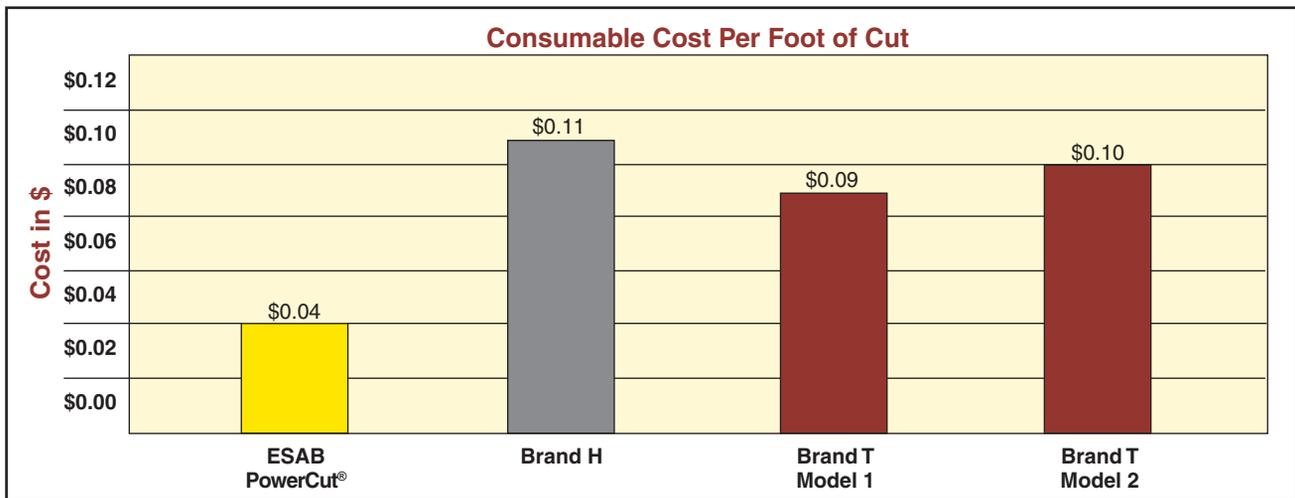


PowerCut® 650 / PT-31XLPC Cutting Performance

Cut Costs and Cut Better

Tests Show ESAB's Top-Performing PowerCut® Plasma Cutters Drastically Reduce Operating Costs

While there are several factors that influence operating costs in plasma cutting, most people agree that replacement costs for torch wear parts play a major role. ESAB put operation costs to the test using the PowerCut® 1250, the newest machine in this outstanding line of plasma cutters. See why – as shown in the chart below – ESAB's PowerCut®-1250 Plasmarc™ machine had less than half the consumable costs per foot cut than even its closest competition.



Machines tested had equivalent cutting capacities. Tests were performed on ½ inch carbon steel. Costs were based on list prices as of 11/1/2002.

Half the Story

Often, ESAB competitors only give you half the story, focusing on nozzle and electrode life. Sure, replacing these front-end wear parts contributes significantly to your operating costs. But other wear parts – such as heat shields, swirl rings and retaining caps – also have to be replaced on a regular basis. Their cost and lifespan are also important factors in the overall expense for operating your plasma cutter.

Altogether, Lowers Costs

With more than 40 years experience producing manual plasma cutting systems, ESAB is unsurpassed when it comes to reducing operation costs. In addition to attractive pricing, plus nozzles and electrodes designed for longer life, ESAB offers simplified torch design that significantly reduces wear on other parts as well as the quantity of other parts that need replacing.

Altogether Better

Superior economy of operation is just one reason to choose an ESAB Plasmarc cutter. Superior durability, reliability and performance also make ESAB's complete line of PowerCut® machines the best choice for all your manual plasma cutting needs.