

PowerCut™ 650

Flexible heavy duty manual plasma cutting

For all types cutting within production, repair, maintenance and assembly. Use on all electrically conductive materials, e.g. mild steels, aluminium and “stainless steels”.

This rugged, easy to use, power efficient unit, offers excellent cutting properties. Runs off your mains supply together with compressed air or Nitrogen.

Performance

- 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
- Tolerates poor power lines

Long life & reliability

- Rugged design – PowerCut™ 's external housing design is durable, damage-resistant, corrosion-resistant and weather resistant, while remaining lightweight for portability
- Suspended electronics – sensitive internal electronics are suspended from the aluminium frame, insulating them from shock and vibration
- Sealed switches – silicone-sealed switches are immune to corrosion, as well as dust and dirt infiltration
- Automatic fan control – the cooling fan is automatically controlled to run only when necessary, to conserve energy and reduce ingested dust and dirt
- Built-in power line conditioner – protects against damage from power line noise and spikes, even with poor-quality power

The PT-31XL PC manual cutting torch

- Compact simple torch—easy access, little maintenance
- 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



The basic guide kit for circles of 45 to 710 mm diameter. Centre fixed with pin.

Easy to use

- Tool-less quick disconnect torch – disconnects from the machine without the use of wrenches or special tools. It is easy to disconnect the torch for storage, repairs or replacement,
- Digital readout display – easy to read and shows the exact pressure or amperage, so you can operate with confidence. The display also shows help codes to assist in troubleshooting minor errors, reducing downtime
- Trigger lock function permits releasing switch for long cuts.
- Torch wrap and wear parts kit holder – This optional item lets you neatly wind up torch and cables for convenient storage.

- **Powerful performance – PowerCut™ offers the highest speeds and thickness capabilities, as well as high duty cycle ratings, for outstanding productivity and performance**
- **Powerful economy – through a combination of long part life, high speeds and simple torch design, the PowerCut™ offers the lowest cost per cut meter of any machine in its price class**
- **Powerful durability – this robust cutting unit stands up to rugged treatment and outdoor use, plus cuts up to 16 mm metal with ease**
- **Powerful ease of operation – with features such as the tool-less quick disconnect torch and a digital readout display, the PowerCut™ is easy to set up and operate, increasing productivity and reducing downtime**

Technical data

PC650

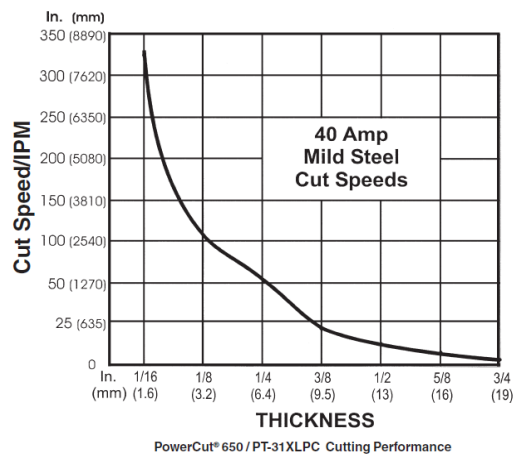
Mains voltage, V/Ph Hz +/-15%,	1x230, 50 (400V optional)
Fuse (slow), A	32
Mains cable, Ø mm²	6
Setting Range	10-40A
Permitted load at	
60% duty cycle, A/V	30/120
100% duty cycle, A/V	22/120
Power factor at maximum current	0,76
Efficiency at maximum current, %	0,85
Air requirements l/min / bars	118 / 5.2
Dimensions lwxhx, mm (w/o torch handle & torch wrap)	483x318x419
Weight, kg	24
Recommended generator power	kW 10
Manual cut capacity	
Cuts, mm	15.9
Severs, mm	19



PowerCut™ package comprise of power source & torch (Torch wrap kit is optional extra)

PT-31XLPC Cutting Speeds
Output Current 40A with Air @ 75psi (5.2bar)

Material	Thickness (mm)	Cutting Speed (mm/min)
Carbon Steel	1.6	8382
	3	2667
	6	1346
	10	560
	13	305
Stainless Steel	1.6	8128
	3	2286
	6	1016
	10	508
	13	305
Aluminium	1.6	11430
	3	5080
	6	1778
	10	762
	13	356



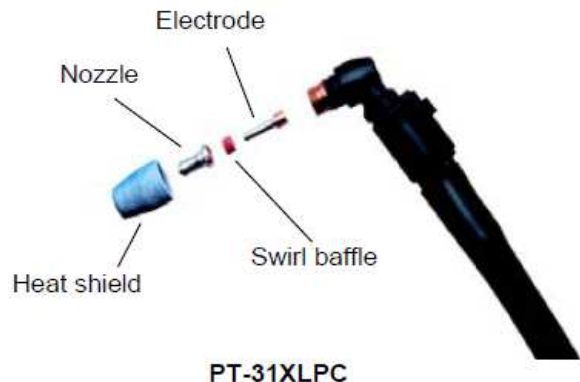
NOTE! Cutting performance may vary due to material composition


Ordering information

Description	Code
PowerCut™ 650 230V package	16F0316030

Optional accessories

Torch Guide Kit Deluxe (44.5 to 106 cm Radius)	16F1102001
Torch Guide Kit Basic (44.5 to 71 cm Radius)	16F1109001
PT-31XL PC Torch 15.2m	16F1120001



ESAB is certified according to ISO 9001	 The ESAB group is certified according to ISO 14001 & OHSAS 18001
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