

PowerCut™ 1600 / PowerCut™ 900

Powerful Inverter Plasma cutting packages

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, piercing and gouging properties. It can also be adapted for mechanization. Runs off your mains supply together with compressed air or Nitrogen.

Performance

- Blowback technology – eliminates high-frequency starts that can disrupt electronic controls and nearby computer systems
- Auto-modes (gouge, grate, and normal modes) switch between modes automatically, tailoring your application without manually changing settings on the power source
- Gouging capability – PowerCut™ delivers the extra output voltage needed for superior plasma gouging capability

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-38 manual cutting torch

- Ergonomic handle for operator comfort
- Big face switch maximizes convenience when wearing welder's gloves.
- Blowback technology
- Easily repairable in the field

Mechanization

- Moulded strain relief for secure torch leads
- Optional kits – let you easily transform your manual cutting system into a powerful mechanized system for your gantry machine. PT37-15m with rack (straight neck), remote torch switch and interfacing cable are required for this purpose



Gouging with torch PT-38 & power source PowerCut 1600

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 PT-38 torch for storage, repairs or replacement, or to attach a PT-37 mechanized torch for mechanized applications
- 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 38 mm (PC1600) or 25mm (PC900) metal respectively 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

PC1600

Mains voltage, V/Ph Hz +/-15%,	3x400, 50
Fuse (slow), A	35
Mains cable, Ø mm²	6
Permitted load at	
60% duty cycle, A/V	90/115
100% duty cycle, A/V	70/115
Power factor at maximum current	0,72
Efficiency at maximum current, %	0,89
Air requirements l/min / bars	236 / 6.2
Dimensions l x w x h, mm	706x323x378
Weight, kg	41
Recommended generator power	kW 20
Manual cut capacity	
Cuts, mm (inch)	38 (1½)
Severs, mm (inch)	44 (1¾)
Mechanized pierce capacity	
Maximum, mm (inch)	19 (3/4)

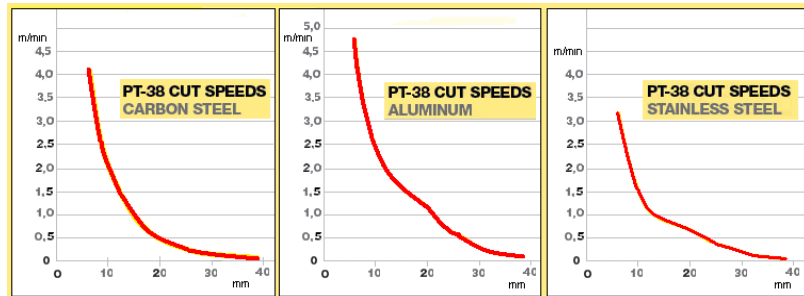


PowerCut™ package comprise of power source & torch
(Torch wrap kit is optional extra)

Technical data

PC 900

Mains voltage, V/Ph Hz	3x 400 50Hz
Fuse (slow), A	13
Mains cable, Ø mm²	4
Permitted load at	
60% duty cycle, A/V	60/120
100% duty cycle, A/V	50/120
Power factor at maximum current	0,90
Efficiency at maximum current, %	87
Air requirements l/min / bars	165 / 4.8-5.2
Open circuit power, W	280
Dimensions l x w x h, mm	643x312x361
Weight, kg	32
Manual cut capacity	
Cuts, mm (inch)	22 (7/8)
Severs, mm (inch)	32 (1¼)
Mechanized pierce capacity	
Maximum, mm (inch)	13 (1/2)



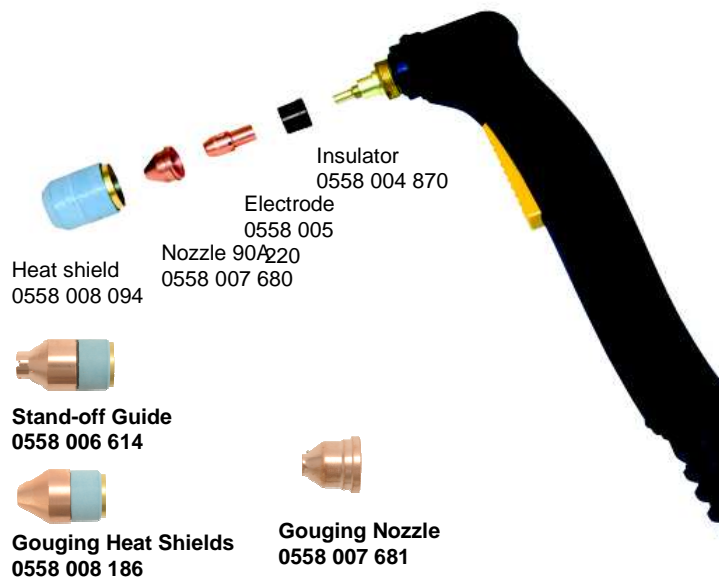
Ordering information

Description	Code
PowerCut™ 1600 400V (power source)	16F0327090
PowerCut™ 900 400V (power source)	16F0325060
PT-38 Torch, 7.6 m (25 ft)	16F1114001
PT-38 Torch, 15.2 m (50 ft)	16F1113001

Optional accessories

Torch Guide Kit Deluxe (max 106 cm Radius)	16F1102001
Torch Guide Kit Basic (44.5 to 71 cm Radius)	16F1109001
PT-37 Torch with rack 15.2m	16F1119001

Wear parts for torch PT-38



2010-10-14 / ESAB reserves the right to alter specifications without prior notice



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