

## PowerCut<sup>™</sup> 1600

# Powerful plasma cutting package for cutting up to 38mm material thicknesses

For all types of heavy duty cutting and gouging 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<sup>™</sup> 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
- Minimum part configurations
- Moulded strain relief for secure torch leads



#### 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 standard on all packages. The holder lets you neatly wind up torch and cables for convenient storage. Also gives easy access to the included wear part kit.

#### Mechanization

- Plug-n-play optional kits let you easily transform your manual cutting system into a powerful mechanized system for your gantry machine.
- Powerful performance PowerCut<sup>™</sup> 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 38mm metal with ease
- Powerful ease of operation with features such as the tool-less quick disconnect torch and a digital readout display, the PowerCut<sup>™</sup> is easy to set up and operate, increasing productivity and reducing downtime

Mains voltage, V/Ph Hz 400, 3~ 50/60 +/ -10%

Fuse (slow), A 25 Mains cable, Ø mm<sup>2</sup> 4 x 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 Setting range, A 20-90 Open circuit voltage, V 280 Air requirements I/min / bars 236 / 6.2

Dimensions lxwxh, mm 706 x 322 x 379 Weight, kg 41 **Enclosure class** IP23S

IEC/EN 60974-1-10 **Standards** 

Operating temperature, °C -10 to +40

Recommended generator

power kW 20

Manual cut capacity

Cuts, mm/inch 38 / 11/2 45 / 13/4 Severs, mm/inch

Mechanized pierce capacity

Maximium, mm/inch 19 / 3/4

#### Ordering information

Description Item no PowerCut™ 1600 400V CE 0558 007 235 (package with 7,6 m long PT-38 torch)

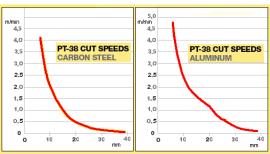
PowerCut™ 1600 400V CE 0558 007 234 (separate power source without torch & wear part kit)

#### Optional accessories

0558 007 640
0558 000 739
0558 003 258
0558 002 675
0558 007 897
0558 007 898
0558 006 787
0558 007 640

### **Mechanization kits**

CNC Cable interface 15.2m	0558 004 215
Plug N Play Mechanized kit	0558 007 885
Remote Hand Switch , 7,6m lead	0558 008 349
PT-37 Torch with rack 7.6m / 25'	0558 004 862
PT-37 Torch without rack 5.2m / 17'	0558 004 895
Torch Holder	0558 005 926





#### Wear parts for torch PT-38



Complete 90A, 0558 006 614

- -Blue body with O-ring 0558 006 611
- O-ring, separate 0558 000 734
- Metal stand-off 0558 006 613



Gouging Heat Shields Complete 90A, 0558 008 186

- Blue body 0558 006 611
- O-ring 0558 000 734
- 90A metal shield 0558 006 601



PowerCut ™ 1600 package with optional cart

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ESAB is certified according to ISO 9001



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