



CUTMASTER™ 81

Industrial

CUT
32mm

60
AMP

3
PHASE

415
V

SPECIFICATIONS

SUPPLY VOLTAGE:

415 volt 3 phase 50Hz

SUPPLY LEAD:

16amps

DUTY CYCLE:

50% @ 60 amps output

PANEL CONTROLS:

On/Off Switch, RUN/SET Switch

20-60 amp variable control

PANEL INDICATORS:

AC Power, Over Temperature, Gas, DC Power

COMMERCIAL CUT:

25.4mm steel, stainless steel, aluminium

SEVERANCE:

32mm

PIERCE CAPACITY:

12.7mm

AIR PRESSURE:

480kPa

AIR FLOW:

190 lpm

PACKED WEIGHT:

45kg

POWER SOURCE DIMENSIONS:

H439mm x W315mm x D696mm

NEW
2ND QUARTER
2004



1torch
with SureLok Technology

with **ATC™**
connection



Thermal Dynamics® introduces CUTMASTER™ 81 and a new standard of excellence in metal cutting. CUTMASTER™ 81 combines the reliability and rugged construction of the CUTMASTER™ power supply design with the new, high performance 1Torch™ plasma torch to create a new standard of performance for the thin gauge to 25.4mm metal cutting world. In the Thermal Dynamics tradition of quality and innovation, CUTMASTER™ 81 offers the features required for high performance plasma cutting. The new 1Torch™ design brings a new standard of cut quality and durability demanded by metal fabrication professionals.

Features:

- ▲ Rugged power source design
- ▲ ATC™ Advanced Torch Connection
- ▲ Supplied with 1Torch SureLok Technology
- ▲ Initiates pilot arc without HF
- ▲ Excellent cut speeds & unsurpassed cut quality
- ▲ Auto pilot restart for easy cutting on metal mesh
- ▲ Protective interlock circuit saves torch parts
- ▲ High visibility shield cup
- ▲ MaximumLife™ electrode improved parts life
- ▲ Ergonomic torch handle for comfort & control

CUTMASTER™ 81 Plant Contents:

CUTMASTER™ 81 power source, 1Torch™ SL60™ (6M), work lead (6M), Built-in regulator, Spare parts kit, Operating Manual

Ordering Information:

CUTMASTER™ 81 Plant Part No. OTD1/1120/4
1Torch™SL60™ with 6M lead Part No. OTD7/5204

Optional Accessories:

Circle Cutting Guide Part No. OTD7/3291
Roller & Radius Cutting Guide Part No. OTD7/7501

Plasma Torch Consumables:

DESCRIPTION	PART No.
Electrode, MaximumLife™	OTD9/8215
Tip 20A, Drag	OTD9/8205
Tip 30A, Drag	OTD9/8206
Tip 40A Drag	OTD9/8207
Tip, 40A, Cutting	OTD9/8208
Tip, 50/55A, Cutting	OTD9/8209
Tip, 60A, Cutting	OTD9/8210
Tip, 40A, Gouging, shallow	OTD9/8225
Tip, 40-100A, Gouging, deep	OTD9/8226
Shield Cup	OTD9/8218
Shield Cup Body	OTD9/8237
Shield Cap, Drag, 50-60A	OTD9/8235
Shield Cap, Deflector	OTD9/8243
Shield Cap, Gouging	OTD9/8241

Plasma Torch Spare Parts:

DESCRIPTION	PART No.
Torch Head with O-rings	OTD9/8219
O-ring Torch Head (large)	OTD8/3487
O-ring Torch Head (small)	OTD8/3486
Starter Cartridge	OTD9/8213

THE SURELOK™ ADVANTAGE

Thermal Dynamics® SureLok™ torch technology is used throughout the CUTMASTER™ family. SureLok™ torches and consumable parts offer important advantages for hand or mechanised plasma cutting.

- ▲ Improved cutting performance – the patented electrode insertion design results in exact positioning of consumable parts, every time, with no special tools. This means a precise, well-defined cutting arc and more precise cuts.
- ▲ Improved torch cooling – means longer consumable parts life and lower operating costs.
- ▲ Extended tip – For maximum visibility and optimum performance in drag cutting. The extended tip provides a clear view of the cut in stand-off or drag cutting. Drag cutting with the tip in contact with the metal results in a narrow kerf, helps eliminate dross and results in greater precision on sheet metal.

- ▲ Tapered shield cup and small torch head – allow excellent control when bevelling and gouging. SureLok™'s size, shape and long arc also make CUTMASTER™ an excellent tool for cutting and gouging in tight spaces where other torches will not fit.
- ▲ Long arc length – SureLok™ torches produce excellent cuts across a wide range of cutting conditions, from drag cutting with the tip directly on the material, to bevelling and gouging, where the tip must be held further away from material. SureLok™'s strong pilot arc and focused cutting power produce a long arc that gives operators more flexibility and control in demanding situations.

