

PLASMASTER 400 Plasma Gas Cutting System



The **PLASMASTER 400** is a rugged, heavy duty plasma gas cutting system designed for high speed cutting of most metals up to 76mm (3 Inches).

The **PLASMASTER 400** System includes the following:

- Power Supply with integrated Torch cooling system.
- Mains trailing cable (10m).
- 'Thermal Dynamics' PCM-6B Machine Torch with 7.6m leads.
- Two Gas Pressure Regulators (plasma and shield gases).
- Remote-control START/STOP unit.
- Earth lead (10m).
- Optional Torch Height Controller (THC).

The **PLASMASTER 400** contains no imported electronic circuit boards, thus ensuring that down-time is kept to an absolute minimum. All components used in the control circuit are either locally manufactured or readily available from more than one supplier.

Easy-to-read indicator and diagnostic lights monitor the status of internal temperatures, coolant flow, plasma and shield gas pressures, thereby greatly simplifying operation and troubleshooting.

Specifications

POWER SUPPLY	
Input Voltage	380/525VAC, 50/60Hz, 3 Phase (other voltages available on request)
Output	400 Amps DC @ 200V
Control Circuit	24VAC (Coolant, plasma & shield gas)
HF Pilot Arc Ignition Unit	115VAC
Fans & Coolant Pump	220VAC
Duty Cycle	100% @ 400A
Rated Power	126KW
GAS SUPPLY	
Plasma Gas	Pressure controlled by Regulator
Shield Gas	Pressure controlled by Regulator
PANEL CONTROLS / INDICATORS	
Power switch and indicator, FAULT lamp indicator, READY lamp indicator, 500A ammeter, Emergency STOP switch, Remote Control socket, Leads access cover, Plasma and Shield gas pressure gages.	
WEIGHT & DIMENSIONS	
Dimensions (L x W x H)	166 (cm) x 95 (cm) x 100 (cm)
Weight (excl. torch)	Approx. 1100 kg



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Cutting Capacity

The **PLASMASTER 400** is designed for high speed cutting of most metals up to a maximum of 3 inches (76mm).

Gases

The **PLASMASTER 400** utilises a dual gas system – plasma and shield – allowing for optimum results on all metals and in all conditions.

Plasma Gas	
Nitrogen (N2)	1.4 – 2.8 bar (20 – 40 psi)
Argon / Hydrogen (ArH2)	2.8 bar (40 psi)
Shield Gas	
Carbon Dioxide (CO2)	2.8 bar (40 psi)
Compressed Air	2.8 bar (40 psi)

Torch

The **PLASMASTER 400** is supplied with the dual-flow '*Thermal Dynamics*' PCM-6B Machine Torch as standard. The water-cooled torch provides maximum cooling which greatly extends the consumable parts life and produces fast, high quality cuts with low operating expense.

(NOTE: Contact your distributor for information regarding other types of cutting torches)

Serviceability

Due to the fact that the **PLASMASTER 400** contains only one electronic circuit, nearly all maintenance and repairs can be performed by qualified electricians.

Internal components are either manufactured in-house, or sourced from reputed international suppliers such as '*Cutler Hammer*' and '*Festo*'. As a result, spare parts are freely available, and can either be obtained from us, or sourced directly from our suppliers.

Proudly made in South Africa

The **PLASMASTER 400** is proudly designed and manufactured in South Africa.

The biggest challenge faced by local companies when operating plasma-cutters, is down-time and sourcing of spare parts. By over-designing and by only using freely available components in our machines, we have produced a plasma-cutter that is not only *Proudly South African made*, but also *Perfectly Suited for South African Conditions*. Our machines are in use in remote installations throughout South Africa and abroad.

(NOTE: References are available on request.)

Please contact :

