

MAX100[®]
HEAVY-DUTY AIR PLASMA CUTTING SYSTEM

For Cutting Gauge
To 1-1/4 Inch (32 mm) Metals



Hypertherm is ISO 9001 registered

HYPERTHERM BRINGS YOU THE MAX100, FOR HEAVY-DUTY, LOW COST AND HIGH PERFORMANCE AIR PLASMA CUTTING.

MAX 100 brings heavy-duty capabilities to our line of air plasma cutting systems. It delivers superior cut quality, low operating costs, maximum productivity and flexibility plus impressive safety features.

MAX100 ... STANDS FOR SUPERIOR CUT QUALITY—

- MAX100 consistently makes smooth, square, high quality cuts on a wide range of metals up to 1 1/4 inches (32 mm) thick.
- MAX100's advanced, transistorized power supply is insensitive to fluctuations in input voltage. It provides constant current output over a wide range of torch-to-work distances, virtually eliminating current ripple and producing smooth clean cuts.
- MAX100 provides infinitely adjustable output from 30 to 100 amps. The operator can precisely match power requirements to cutting conditions, optimizing cut quality for all speeds and material thicknesses.
- MAX100 matches consumables to cutting requirements. Two nozzles ensure optimum cut quality for the entire cutting range. One is designed for gauge to 3/8 inch (0.4-10 mm). The other is designed for 3/8 inch (10 mm) and above.



- MAX100's torch design gives excellent visibility for accurate cuts.



▲ Quick disconnect torch assembly.

**MAX100 ...
STANDS FOR LOW
OPERATING COSTS —**

- High travel speeds can produce tremendous time and cost savings compared with oxyfuel or other cutting methods.
- Superior torch and power supply design delivers the longest consumable parts life in the industry. The impact resistant retaining cap withstands punishment that would leave competitors' ceramic cups in pieces. All this means reduced parts costs.
- High reliability results in minimum down time.
- Using compressed air as the plasma gas eliminates the need for expensive industrial gasses.
- The advanced power supply design is more energy efficient, helping to reduce electric power costs.

**MAX100 ...
STANDS FOR GREATER
PRODUCTIVITY AND
FLEXIBILITY —**

- MAX100 is built to work under the toughest conditions; it stands up to punishment that is typical of busy job sites.
- MAX100's quick disconnect torch lets you switch easily between hand-held and mechanized applications for maximum flexibility in heavy-duty cutting. The high duty cycle keeps you cutting all day long.
- MAX 100 offers shielded front-end torch technology. This patented advance greatly improves piercing capabilities and practically eliminates double arcing.

- MAX100 is available with all common input voltages, including a dual voltage 240/480, 3Ø, 60 Hz configuration.
- MAX100 offers a continuous pilot arc feature that allows you to cut grating, as well as perforated and expanded metals with ease.
- MAX100 delivers high quality gouging capabilities. Equipped with a gouging nozzle, MAX100 produces clean, uncontaminated gouges ready for secondary fabrication; the smoke, fumes, noise and consumable usage associated with other methods are drastically reduced.
- MAX100 is mobile. It is well balanced for easy wheeling and has a lifting eye at the balance point for use with cranes.



**MAX100 ...
STANDS FOR SAFETY —**

- MAX100's operating panel is simple to use and easy to see. All controls and indicators are conveniently located on the top/front side of the power supply for high visibility and easy access.
- A unique parts-in-place safety interlock automatically shuts down the system if the operator accidentally tries to replace torch consumables without turning off the power supply.



**CUT QUALITY —
LOW OPERATING COSTS —
FLEXIBILITY —
SAFETY — NO OTHER
SYSTEM CAN COMPARE.**

**AND NO OTHER SYSTEM
GIVES YOU HYPER THERM'S
WARRANTY PROTECTION —
ONE YEAR COVERAGE ON
THE TORCH AND TWO FULL
YEARS ON THE POWER SUPPLY.**

MAX100 AIR PLASMA CUTTING SYSTEM

MAX100 SYSTEM COMPONENTS:

- Power Supply
- Torch Assembly
- 25' (7.5 m) Torch Leads
- Consumable Parts Kit
- 25' (7.5 m) Postive Cable



SPECIFICATIONS:

Model Number: MAX100
Input Voltage*: 240/480 V, 3Ø, 60 Hz
 380/415 V, 3Ø, 50 Hz
Input Current: 50/25 A, 240/480 V
 @ 15.0 kw Output
 30/28 A, 380/415 V,
 @ 15.0 kw Output
Output Voltage: 150 V DC
Output Current: 30 to 100 A DC
Duty Cycle: 100 % at 80 A, 80 % at 100 A
Maximum OCV: 280 V DC
Dimensions: 31 3/4" (800 mm) Depth
 26 1/2" (675 mm) Width
 43" (1100 mm) Height
Weight: 420 lbs (190 kg)
Gas Supply: Clean dry, oil-free air
 (N₂ option)
Flow Rate: 440 scfh (200 l/min)
Flow Pressure: 70 psig (4.8 bar); 60 psig
 (4.1 bar) with shielded front-
 end torch parts

***NOTE: OTHER VOLTAGES AVAILABLE**

For more information about the MAX100 Air
Plasma Cutting System, call us today,
TOLL-FREE in the USA and Canada:

1-800-643-0030

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OPERATING DATA:

Maximum Cutting Capacity: 1-1/4" (32 mm)

Recommended Maximum Mechanized Production Capacity: 3/8" (16 mm)

| MATERIAL | THICKNESS | | CURRENT | APPROXIMATE TRAVEL SPEED | |
|------------|-----------|------|---------|--------------------------|----------|
| | (inches) | (mm) | | (ipm) | (mm/min) |
| MILD STEEL | 24 GA. | 0.6 | 40 | 285 | 7200 |
| | 1/16 | 1.5 | 40 | 150 | 3800 |
| | 1/4 | 6 | 80 | 95 | 2400 |
| | 1/2 | 12 | 100 | 40 | 1000 |
| | 5/8 | 15 | 100 | 30 | 750 |
| | 3/4 | 19 | 100 | 20 | 500 |
| | 1 | 25 | 100 | 10 | 250 |
| ALUMINUM | 1/4 | 32 | 100 | 5 | 125 |
| | 1/32 | 0.8 | 40 | 240 | 6100 |
| | 1/16 | 1.5 | 40 | 150 | 3800 |
| | 1/4 | 6 | 80 | 60 | 1500 |
| | 1/2 | 12 | 100 | 30 | 760 |
| | 3/4 | 19 | 100 | 10 | 250 |
| | 1 | 25 | 100 | 5 | 125 |
| STAINLESS | 28 GA. | 0.4 | 40 | 290 | 7400 |
| | 24 GA. | 0.6 | 40 | 240 | 6100 |
| | 1/16 | 1.5 | 40 | 130 | 3300 |
| | 1/4 | 6 | 80 | 80 | 2000 |
| | 1/2 | 12 | 100 | 30 | 760 |
| | 3/4 | 19 | 100 | 15 | 380 |
| | 1 | 25 | 100 | 10 | 250 |



**The World Leader in
Plasma Cutting Technology™**

Hypertherm, Inc.
 Etna Road, P.O. Box 5010
 Hanover, NH 03755 USA
 603-643-3441 Tel 603-643-5352 Fax
<http://www.hypertherm.com>

Hypertherm Plasmatechnik GmbH
 Hanau-Wolfgang, Germany
 49 6181 58 2100 Tel 49 6181 58 2134 Fax

Hypertherm (S) Pte Ltd
 Singapore
 65 841 2489 Tel 65 841 2490 Fax

Hypertherm UK Ltd
 Runcorn, Cheshire, England
 44 1928 579 074 Tel 44 1928 579 604 Fax

France
 Eragny, France
 33 1 30 37 15 28 Tel 33 1 30 37 15 79 Fax

Hypertherm S.r.L.
 Milan, Italy
 39 02 725 46 312 Tel 39 02 725 46 400 Fax

Hypertherm B.V.
 Dinxperlo, Holland
 31 315 655866 Tel 31 315 655886 Fax