MAX100[®] HEAVY-DUTY AIR PLASMA CUTTING SYSTEM

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





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 torchto-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.







▲ 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.

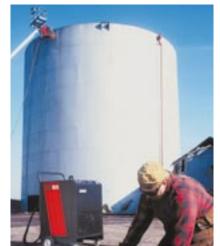
MAX100 ... STANDS FOR GREATER PRODUCTIVITY AND FLEXIBILITY —

- 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, 3∅, 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 mabile, it is well belaged.
- 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 HYPERTHERM'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

Model Number:

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

SPECIFICATIONS:

MAX100

OPERATING DATA:

Maximum Cutting Capacity: 1-1/4" (32 mm) **Recommended Maximum Mechanized Production Capacity:** ⁵/8^{II} (16 mm)

t Voltage*:	240/480 V, 3∅, 60 Hz 380/415 V, 3∅, 50 Hz	Recommended Maximum Mechanized Production Capacity: 5/8" (16 mm)					
Current:	50/25 A, 240/480 V @ 15.0 kw Output 30/28 A, 380/415 V,	MATERIAL	THICKNESS (inches) (mm)		CURRENT	APPROXIMATE TRAVEL SPEED (ipm) (mm/min)	
	@ 15.0 kw Output	MILD STEEL	24 GA.	0.6	40	285	7200
Voltage:	150 V DC		¹ /16	1.5	40	150	3800
urrent:	30 to 100 A DC		1/4	6	80	95	2400
:	100 % at 80 A, 80 % at 100 A		$^{1}/_{2}$	12	100	40	1000
CV:	280 V DC		⁵ /8	15	100	30	750
imensions:	31 3/4" (800 mm) Depth		3/4	19	100	20	500
	26 1/2" (675 mm) Width		1	25	100	10	250
	43" (1100 mm) Height		1 ¹ /4	32	100	5	125
	420 lbs (190 kg)	ALUMINUM	¹ / ₃₂	0.8	40	240	6100
as Supply:	Clean dry, oil-free air		¹ / ₁₆	1.5	40	150	3800
	(N ₂ option)		¹ /4	6	80	60	1500
	440 scfh (200 l/min)		¹ / ₂	12	100	30	760
low Pressure:	70 psig (4.8 bar); 60 psig		³ / ₄	19	100	10	250
	(4.1 bar) with shielded front-		1	25	100	5	125
	end torch parts	STAINLESS	28 GA.	0.4	40	290	7400
IOTE: OTHER VOLTAGES AVAILABLE			24 GA.	0.6	40	240	6100
or more information about the MAX100 Air lasma Cutting System, call us today, OLL-FREE in the USA and Canada:			¹ /16	1.5	40	130	3300
			1/4	6	80	80	2000
			¹ / ₂	12	100	30	760
-800-643-0030			³ /4	19	100	15	380
-040-			1	25	100	10	250
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HYPERTHERM®

The World Leader in Plasma Cutting Technology™

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