

m³ plasma

Precision Plasmarc™ System

A New Dimension in Plasma Performance

ESAB's m³ Plasma System takes plasma productivity to new heights. Now multiple plasma cutting and marking features are available in a single easy-to-use system. You can perform high speed, low cost standard plasma cutting; high quality precision cutting and marking; and high current, thick-plate cutting with a single plasma system. This remarkable system can quickly and accurately cut and mark a wide variety of materials. Depending on which plasma power supply is selected, it can cut as thin as 20 ga. (2mm), or up to 6.25 inches (160mm).

Precision

ESAB m³ plasma Precision Mode outperforms the competition, achieving higher cut quality throughout the life of the consumable.

- Precision Cutting in the ISO 9013 quality range 3
- Typically 2 degrees or less cut edge angle (Precision Mode)
- Precision cutting and marking with the same torch
- Sharp top & bottom edge
- Virtually no dross

Versatility

The m³ system is the most versatile plasma system on the market, offering all these capabilities:

- Precision Mode maximizes cut edge squareness and top edge sharpness
- Production mode for high-speed, high-quality cutting
- Sever mode for highest possible cut speeds
- Cutting and marking with a single torch
- High current plasma for thick plate cutting - up to 6.25" Stainless

Value

- Longer Consumable Life
- Lower Consumable Cost
- Fewer Parts to purchase and stock
- Highly Efficient, High Power Factor Designs
- Modular System Grows With Your Needs



Available EPP Systems				
200 Amp				
300 Amp				
400 Amp				
600 Amp				
600 Amp (Dual 300 Amp)				

All EPP Power Supplies are rated for 100% duty cycle. Two EPP-300s may be paralleled to provide 600 Amps.

m3 Plasma Outperforms the Rest

ESAB Precision Plasmarc® Plasma Power Sources

ESAB's new EPP series of plasma power sources includes 200, 300, 400, and 600 amp models. All feature a wide operating current range that allows plasma marking and cutting to be accomplished with the same torch and power supply. All EPP power sources feature a highly efficient, high-power factor design for the most efficient use of electrical input power. With power factors in the 91-95% range, these machines save you money on input power. All ESAB plasma power supplies feature a 3-year limited warranty.



m3 Flow Control

ESAB was the first to use electronically controlled proportional valves in a plasma gas control system. In yet another breakthrough in plasma system design, the m3 Flow Control is the first plasma system to use Mass Flow Control (MFC) devices to provide the most accurate, repeatable gas flow control in the industry. The m3 system also breaks new ground by offering the ability to select and mix shield gases to produce optimum cut quality on any material.

Breakthrough Torch Design

The PT-36 mechanized cutting torch uses advanced "dry cutting" technology and precision machined components to provide precision cut quality, long consumable life, and fast cutting speeds. The patented Posi-Thread design simplifies consumable installation and eliminates the worry of damaged threads on the electrode, electrode holder and torch body. The torch does not require an expensive water chiller for cooling water, which reduces power and maintenance costs. This combination of accurate straight or bevel cutting, longer consumable life, better cut quality and high cutting speeds produces higher throughput and lower overall costs than any competitive system.



Automated Control

The m3 system features the most advanced gas control system in the industry, fully automated by ESAB's Vision CNC. Great flexibility in selection and mix of shield gases allows an operator to produce the best cut quality on any material. Simply select the material type and thickness, and the Vision CNC automatically selects and mixes the optimal start, cut and shield gas combination. Process parameters for most plasma cutting and marking applications are preloaded in the Vision CNC, and custom parameter files can be easily created as needed.

Specifications are subject to change without notice. Not all capabilities and equipment described herein are yet available. Please contact ESAB Cutting Systems for the most current specifications and available equipment.



**ESAB - Your Partner
in Welding and Cutting**



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