m3 Plasma

Precision plasma system

Precision

- **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

- **Precision thin plate cutting**
- **High speed plasma cutting**
- **Plasma Marking - without changing tools**
- **Thick plate cutting - up to 6" Stainless & Aluminum**
- **Dry or Water Injection Cutting**
- **Cutting over Dry Table or Under-Water**
- **Straight or Bevel Cutting - up to +/- 45 degrees**

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**



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 plasma cutting, high precision cutting, plasma marking, thick-plate cutting, dry (multi-gas) cutting, and water injection cutting - all with a single plasma system. This remarkable system can quickly and accurately cut and mark a wide variety of materials. It can cut as thin as 20 ga. (2 mm), or as thick as 6 inches (150 mm), depending on which plasma power source is installed.

The m3 Plasma 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 sets the start, cut and shield gas pressures and flow rates. Process parameters for most plasma cutting and marking applications are pre loaded in the Vision CNC, and custom parameter files can be easily created as needed.

Specifications

	m³ 200 Amp System	m³ 360 Amp System	m³ 450 Amp System	m³ 600 Amp System
Output Range (Cutting)	30 to 200 Amps	30 to 360 Amps	30 to 450 Amps	30 to 600 Amps
Output Range (Marking)	10 to 36 Amps	10 to 36 Amps	10 to 100 Amps	10 to 100 Amps
Open Circuit Voltage	360 VDC	360 VDC	430 VDC	430 VDC
Dimensions				
Length	47 in.	47 in.	45 in.	45 in
Height	41 in.	41 in.	41 in.	41 in.
Width	23 in.	23 in.	37 in.	37 in.

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Materials and Thicknesses

Mild Steel

Power Supply	Cutting Current	Material Thickness
m³ plasma 201	30 – 200 Amps	0.040 – 1.250 inch[1]
m³ plasma 360	30 – 360 Amps	0.040 – 1.500 inch[1]
m³ plasma 450	35 – 450 Amps	0.040 – 2.000 inch[1]
m³ plasma 601	35 – 450 Amps	0.040 – 2.000 inch[1]
m³ plasma 720	35 – 450 Amps	0.040 – 2.000 inch[1]

1 Recommended range for production cutting and piercing mild steel with O_2



Stainless Steel

Power Supply	Cutting Current	Material Thickness
m³ plasma 201	30 – 200 Amps	0.040 – 1.250 inch[1]
m³ plasma 360	30 – 360 Amps	0.040 – 1.500 inch[1]
m³ plasma 450	35 – 450 Amps	0.040 – 2.000 inch[1]
m³ plasma 601	35 – 600 Amps	0.040 – 6.000 inch[1]
m³ plasma 720	35 – 720 Amps	0.040 – 6.000 inch[1]

1 Recommended range for production cutting of Stainless Steel.
Piercing and cutting up to 3 inch thick with H-35 gas
(65% argon/35 % hydrogen) at 600 and 720 A.
Cutting from 3 inch to 6 inch stainless is edge starting ONLY.



Aluminium

Power Supply	Cutting Current	Material Thickness
m³ plasma 201	30 – 200 Amps	0.040 – 1.250 inch[1]
m³ plasma 360	30 – 360 Amps	0.040 – 1.500 inch[1]
m³ plasma 450	35 – 450 Amps	0.040 – 2.000 inch[1]
m³ plasma 601	35 – 600 Amps	0.040 – 6.000 inch[1]
m³ plasma 720	35 – 720 Amps	0.040 – 6.000 inch[1]

1 Recommended range for production cutting of Aluminum.
Piercing and cutting up to 3 inch thick with H-35 gas
(65% argon/35 % hydrogen) at 600 and 720 A.
Cutting from 3 inch to 6 inch aluminum is edge starting ONLY.

