



m³ 200 Amp Precision Plasmarc™ System with PT-36 Torch

ESAB's fully automated m³ Plasma™ system offers the latest plasma technology with the precision, versatility, and value demanded by modern lean manufacturers. Each m³ Plasma system consists of three main components: the m³ Gas Control, the PT-36 Torch, and the EPP Power Supply.

m³ Gas Control

The m³ Plasma gas control system is the most advanced gas control system in the industry, featuring precision gas metering and mixing capabilities that support the widest range of plasma cutting capabilities.

PT-36 Torch

The PT-36 Plasmarc Torch features a robust design with high precision torch parts and unique patented features that help operators get the most from every setup.

Power Supply

The EPP-202 Precision Plasmarc power supply provides reliable, efficient output power with fast and accurate current control for the most demanding plasma applications. Features include:

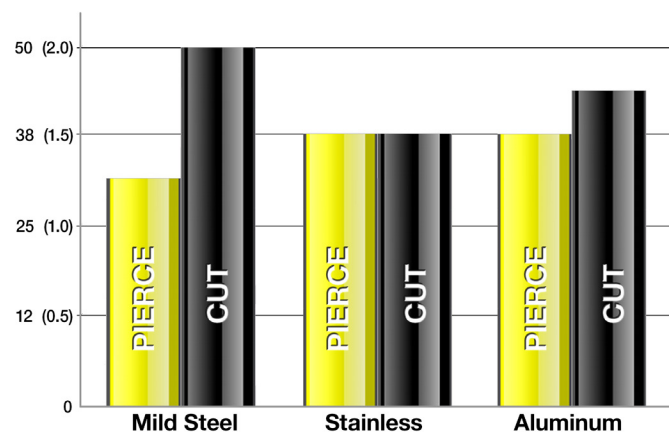
- **High-speed data bus controller allows precise control of plasma current and better diagnostics from the machine CNC.**
- **Integrated water cooler reduces installation and floor space requirements**
- **Innovative water cooled power block provides better cooling and longer component life.**
- **High Output Voltage Capacity for better bevel cutting.**
- **Rated for 100% duty cycle at 200 Amp output**
- **Fast switching between cutting and marking modes**
- **Efficient, high-power factor design**



Specifications

	m ³ 200 Amp System
Output Range (Cutting)	30 to 200 Amps
Output Range (Marking)	10 to 36 Amps
Open Circuit Voltage	360 VDC
Dimensions	61 x 104 x 120 cm (24 x 41 x 47 in.)

Cutting Range, mm (in.)



m³ 200 Amp Precision Plasmarc™ Performance

Carbon Steel

Thickness (mm)	Speed (mm/min)	Thickness (inch)	Speed (in/min)	Current (amps)	Cut/Shield Gases
1	3800	0.040	150	30	O2-N2/O2
3	3800	0.125	150	60	O2-N2/O2
	6100		240	130	O2-Air/O2
6	2000	0.250	75	60	O2-N2/O2
	5500		210	200	O2-Air/O2
10	1900	0.375	75	100	O2-Air
	3500		140	200	O2-Air/O2
12	2000	0.500	75	130	O2-N2/O2
	3200		120	200	O2-Air/O2
16	1500	0.625	60	130	O2-Air/O2
	2500		100	200	O2-Air/O2
20	1350	0.750	55	130	O2-Air/O2
	2000		80	200	O2-Air/O2
25	510	1.000	20	130	O2-Air/O2
	1280		50	200	O2-Air/O2
32	960	1.250	38	200	O2-Air/O2
38	380	1.500	15	200	Air-Air
50	150	2.000	6	200	Air-Air

Stainless Steel

Thickness (mm)	Speed (mm/min)	Thickness (inch)	Speed (in/min)	Current (amps)	Cut/Shield Gases
1	7000	0.040	275	70	N2-N2
3	3700	0.125	140	60	F5-N2
	6000		225	125	N2-H2O
6	1700	0.250	65	100	F5-N2/CH4
	4400		165	150	Air-Air
	4700		175	200	N2-H2O
10	1100	0.375	45	100	F5-N2/CH4
	2600		105	200	Air-Air
12	900	0.500	35	130	H35-N2
	2200		85	200	Air-Air
16	1190	0.625	47	200	N2-N2
	1770		70	200	Air-Air
20	750	0.750	30	200	H35-N2
	1350		55	200	Air-Air
25	510	1.000	20	200	H35-N2
	770		30	200	N2-N2
32	350	1.250	14	200	H35-N2
38	305	1.500	12	200	H35-N2

Aluminum

Thickness (mm)	Speed (mm/min)	Thickness (inch)	Speed (in/min)	Current (amps)	Cut/Shield Gases
1	6100	0.040	240	35	N2-N2/CH4
3	4300	0.125	160	50	N2-N2
	5600		210	60	N2-N2/CH4
6	2000	0.250	75	60	N2-N2/CH4
	3700		140	150	Air-Air
	4000		150	200	N2-H2O
10	1900	0.375	75	100	N2-N2
	2700		110	200	Air-Air
12	2200	0.500	85	200	N2-N2/CH4
	2200		85	200	Air-Air
16	1650	0.625	65	150	Air-Air
	1570		62	200	N2-N2
20	1100	0.750	45	150	Air-Air
	1000		40	200	N2-N2
25	1000	1.000	40	200	Air-Air
	1150		45	200	N2-N2/CH4
32	630	1.250	25	200	N2-N2/CH4
38	500	1.500	20	200	N2-N2/CH4

Plasma Marking

Material	Marking Type	Nozzle (amps)	Marking Speed	
			(mm/min)	(in/min)
Carbon Steel	Text	30 - 200	2500	100
	Line	45 - 200	5000-10000	200-400
Stainless Steel	Text	50 - 200	2500	100
	Line	70 - 200	7600-10000	300-400

Notes:

1. These charts are only a sampling of the numerous cutting conditions available with the m³ plasma system. For brevity, many available cutting conditions are not shown.
2. All statements and data apply to m³ plasma "Generation 2" systems with a PT-36 torch and EPP Power Supply.
3. Cutting speeds are dependent on the material type and grade, gas pressure, gas combination, as well as the consumables selected.
4. Specifications are subject to change without notice. Please contact ESAB Cutting Systems for the most current specifications, numerical control, and available equipment.
5. Mark and shield gases: Ar-Air.

