



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:

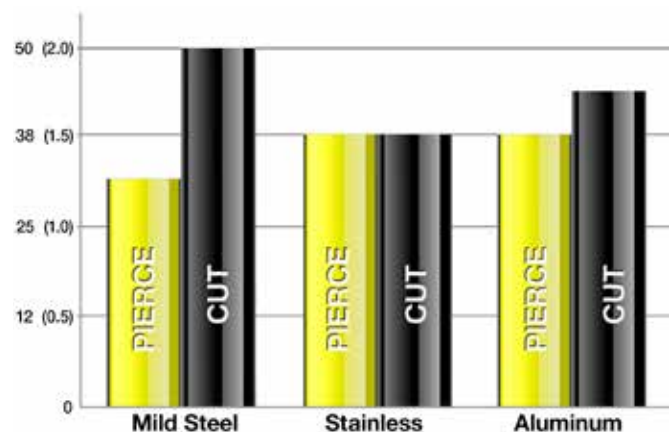
- **High-speed data bus controller allows precise control of plasma current and better diagnostics from the machine CNC.**
- **Integrated water cooler reduces installation and floor space requirements**
- **Innovative water cooled power block provides better cooling and longer component life.**
- **High 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-H20
6	1700	0.250	65	100	F5-N2/CH4
	4400		165	150	Air-Air
	4700		175	200	N2-H20
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-H20
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.

ESAB Cutting Systems / esab-cutting.com / 1.888.372-2288

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m³ 360 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-362 Precision Plasmarc power supply provides reliable, efficient output power with fast and accurate current control for the most demanding plasma applications. Features include:

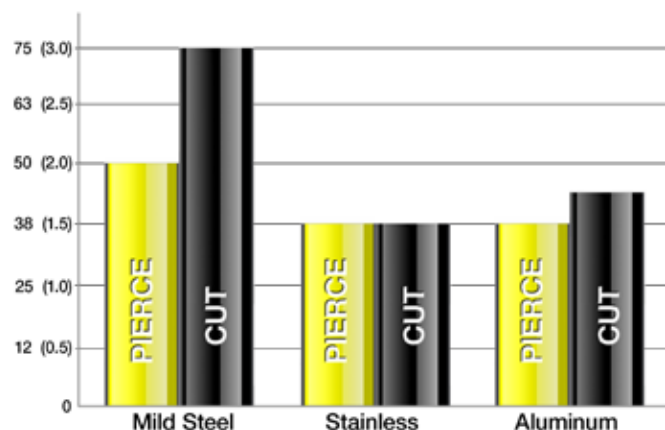
- **High-speed data bus controller allows precise control of plasma current and better diagnostics from the machine CNC.**
- **Integrated water cooler reduces installation and floor space requirements**
- **Innovative water cooled power block provides better cooling and longer component life.**
- **High Output Voltage Capacity for better bevel cutting.**
- **Rated for 100% duty cycle at 360 Amp output**
- **Fast switching between cutting and marking modes**
- **Efficient, high-power factor design**



Specifications

	m ³ 360 Amp System
Output Range (Cutting)	30 to 360 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 360 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	1900	0.625	75	200	Air-Air
	2500		100	200	O2-Air
20	1900	0.750	75	200	Air-Air
	3000		120	360	O2-Air
25	1540	1.000	60	280	O2-N2/O2
	2050		80	360	O2-Air
32	1400	1.250	55	360	O2-Air
38	1500	1.500	60	300	O2-Air
45	1000	1.750	40	300	O2-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	1770	.0625	70	200	Air-Air
20	1100	0.750	45	360	H35-N2
	1700		68	260	N2-N2
25	900	1.000	35	360	H35-N2
	1030		40	260	N2-N2
32	350	1.250	14	200	H35-N2
	760		30	360	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
6	4000	0.250	150	200	N2-H2O
	1900		0.375	75	100
10	2700	0.375		110	200
	2200		0.500	85	200
12	2200	0.500		85	200
	2400		0.625	95	250
16	3000	0.625		120	260
	2200		0.750	90	260
20	2200	0.750		90	260
	1150		1.000	45	200
25	1850	1.000		72	260
	1140		1.250	45	260
38	840	1.500	33	360	H35-N2
45	880	1.750	35	360	H35-N2

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.

ESAB Cutting Systems / esab-cutting.com / 1.888.372-2288

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m³ 450 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

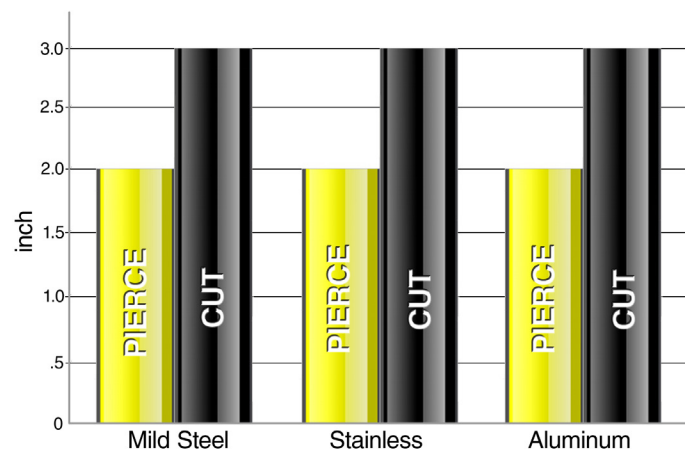
The EPP-450 Precision Plasmarc power supply provides reliable, efficient output power with fast and accurate current control for the most demanding plasma applications. Features include:

- **10 – 450A current range**
- **Wide operating range for best arc performance**
- **High Output Voltage Capacity**
- **Higher standoff capacity improves bevel cutting.**
- **450 Amp output rated for 100% duty cycle**
- **Fast switching between cutting and marking modes**
- **Efficient, high-power factor design**
- **Fan-on-demand technology reduces dust intake and extending maintenance intervals**



Specifications

Output Range (Cutting)	35 to 450 Amps
Output Range (Marking)	10 to 100 Amps
Open Circuit Voltage	430 VDC
Dimensions	37 in. W x 41 in. H x 45" D



m³ 450 Amp Precision Plasmarc™ Performance

Carbon Steel				Stainless Steel				Aluminum			
Thickness (inch)	Current (Amps)	Cutting Speed (in/min)	Cut/ Shield Gases	Thickness (inch)	Current (Amps)	Cutting Speed (in/min)	Cut/ Shield Gases	Thickness (inch)	Current (Amps)	Cutting Speed (in/min)	Cut/ Shield Gases
0.040	30	150	O ₂ /N ₂ /O ₂	0.040	70	275	N ₂ /N ₂	0.040	35	240	N ₂ /N ₂ /CH ₄
0.125	60	150	O ₂ /N ₂ /O ₂	0.125	60	140	F ₅ /N ₂	0.125	50	110	Air/Air
	130	240	O ₂ /Air/O ₂		125	225	N ₂ /H ₂ O		60	210	N ₂ /N ₂ /CH ₄
0.250	90	120	O ₂ /Air/O ₂	0.250	90	65	F ₅ /N ₂	0.250	90	95	N ₂ /N ₂ /CH ₄
	200	250	O ₂ /Air		150	165	Air/Air		150	140	Air/Air
0.375	90	80	O ₂ /Air/O ₂	0.375	200	175	N ₂ /H ₂ O	0.375	200	150	N ₂ /H ₂ O
	200	155	O ₂ /Air		90	45	F ₅ /N ₂		90	60	N ₂ /N ₂ /CH ₄
0.500	130	80	O ₂ /Air/O ₂	0.375	125	50	N ₂ /H ₂ O	0.500	200	110	Air/Air
	200	120	O ₂ /Air		200	105	Air/Air		200	85	N ₂ /N ₂ /CH ₄
0.625	200	100	O ₂ /Air	0.500	130	35	H ₃₅ /N ₂	0.500	200	85	Air/Air
	200	75	Air/Air		200	85	Air/Air		250	95	N ₂ /H ₂ O
0.750	200	75	O ₂ /Air	0.625	200	47	N ₂ /N ₂	0.625	260	120	N ₂ /N ₂
	360	120	O ₂ /Air		200	70	Air/Air		260	90	N ₂ /N ₂ /CH ₄
1.000	280	60	O ₂ /N ₂ /O ₂	0.750	260	68	N ₂ /N ₂	0.750	260	90	N ₂ /N ₂
	360	80	O ₂ /Air		360	45	H ₃₅ /N ₂		260	90	N ₂ /N ₂
1.250	360	55	O ₂ /Air	1.000	260	40	N ₂ /N ₂	1.000	200	45	N ₂ /N ₂ /CH ₄
	450	70	O ₂ /Air		360	35	H ₃₅ /N ₂		260	72	N ₂ /N ₂ /CH ₄
1.500	300	60	O ₂ /Air	1.250	200	14	H ₃₅ /N ₂	1.250	260	45	N ₂ /N ₂ /CH ₄
	450	55	O ₂ /Air		360	30	H ₃₅ /N ₂		360	45	H ₃₅ /N ₂
1.750	300	40	O ₂ /Air	1.500	200	12	H ₃₅ /N ₂	1.500	360	33	H ₃₅ /N ₂
	450	45	O ₂ /Air		450	33	H ₃₅ /N ₂		450	55	H ₃₅ /N ₂
2.000	450	33	O ₂ /Air	2.000	450	22	H ₃₅ /N ₂	1.750	360	35	H ₃₅ /N ₂
3.000	450	10	O ₂ /Air	3.000	450	10	H ₃₅ /N ₂	2.000	450	33	H ₃₅ /N ₂
								3.000	450	15	H ₃₅ /N ₂

Notes:

1. This above chart is 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.

Plasma Marking				
Material	Marking Type	Nozzle (Amps)	Marking Speed (in/min)	Mark / Shield Gases
Carbon Steel	Text	30 - 200	100	Ar/Air
	Line	45 - 200	200 - 400	Ar/Air
Stainless Steel	Text	50 - 200	100	Ar/Air
	Line	70 - 200	300 - 400	Ar/Air

Specifications are subject to change without notice. Please contact ESAB Cutting Systems for the most current specifications, numerical control, and available equipment.



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m³ 600 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

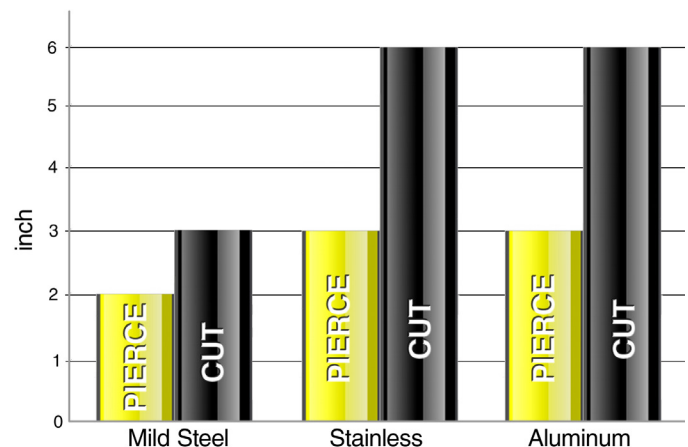
The EPP-601 Precision Plasmarc power supply provides reliable, efficient output power with fast and accurate current control for the most demanding plasma applications. Features include:

- **10 – 600A current range**
- **Wide operating range for best arc performance**
- **High Output Voltage Capacity**
- **Higher standoff capacity improves bevel cutting.**
- **600 Amp output rated for 100% duty cycle**
- **Fast switching between cutting and marking modes**
- **Efficient, high-power factor design**
- **Fan-on-demand technology reduces dust intake and extending maintenance intervals**



Specifications

Output Range (Cutting)	35 to 600 Amps
Output Range (Marking)	10 to 100 Amps
Open Circuit Voltage	430 VDC
Dimensions	37 in. W x 41 in. H x 45" D



m³ 600 Amp Precision Plasmarc™ Performance

Carbon Steel				Stainless Steel				Aluminum			
Thickness (inch)	Current (Amps)	Cutting Speed (in/min)	Cut/ Shield Gases	Thickness (inch)	Current (Amps)	Cutting Speed (in/min)	Cut/ Shield Gases	Thickness (inch)	Current (Amps)	Cutting Speed (in/min)	Cut/ Shield Gases
0.040	30	150	O ₂ /N ₂ /O ₂	0.040	70	275	N ₂ /N ₂	0.040	35	240	N ₂ /N ₂ /CH ₄
0.125	60	150	O ₂ /N ₂ /O ₂	0.125	60	140	F ₅ /N ₂	0.125	50	110	Air/Air
	130	240	O ₂ /Air/O ₂		125	225	N ₂ /H ₂ O		60	210	N ₂ /N ₂ /CH ₄
0.250	90	120	O ₂ /Air/O ₂	0.250	90	65	F ₅ /N ₂	0.250	90	95	N ₂ /N ₂ /CH ₄
	200	250	O ₂ /Air		150	165	Air/Air		150	140	Air/Air
0.375	90	80	O ₂ /Air/O ₂	0.375	200	175	N ₂ /H ₂ O	0.375	200	150	N ₂ /H ₂ O
	200	155	O ₂ /Air		90	45	F ₅ /N ₂		90	60	N ₂ /N ₂ /CH ₄
0.500	130	80	O ₂ /Air/O ₂	0.500	200	105	Air/Air	0.500	200	110	Air/Air
	200	120	O ₂ /Air		130	35	H ₃₅ /N ₂		200	85	N ₂ /N ₂ /CH ₄
0.625	200	100	O ₂ /Air	0.625	200	85	Air/Air	0.625	200	85	Air/Air
	300	150	O ₂ /Air		200	47	N ₂ /N ₂		250	95	N ₂ /H ₂ O
0.750	200	75	O ₂ /Air	0.750	200	70	Air/Air	0.750	260	120	N ₂ /N ₂
	360	120	O ₂ /Air		260	68	N ₂ /N ₂		260	90	N ₂ /N ₂ /CH ₄
1.000	300	120	O ₂ /Air	1.000	360	45	H ₃₅ /N ₂	1.000	260	90	N ₂ /N ₂
	360	80	O ₂ /Air		260	40	N ₂ /N ₂		260	45	N ₂ /N ₂
1.250	360	55	O ₂ /Air	1.250	360	35	H ₃₅ /N ₂	1.250	260	72	N ₂ /N ₂ /CH ₄
	450	70	O ₂ /Air		450	38	H ₃₅ /N ₂		450	70	H ₃₅ /N ₂
1.500	300	60	O ₂ /Air	1.500	600	60	N ₂ /H ₂ O	1.500	600	70	N ₂ /H ₂ O
	450	55	O ₂ /Air		600	45	N ₂ /H ₂ O		450	55	H ₃₅ /N ₂
1.750	300	40	O ₂ /Air	2.000	600	32	N ₂ /H ₂ O	2.000	450	33	H ₃₅ /N ₂
	450	45	O ₂ /Air		3.000	600	10		H ₃₅ /N ₂	3.000	600
2.000	400	20	O ₂ /N ₂ /O ₂	4.000	600	10	H ₃₅ /Air	4.000	600	15	H ₃₅ /Air
	450	33	O ₂ /Air		5.000	600	7		H ₃₅ /Air	5.000	600
3.000	450	10	O ₂ /Air	6.000	600	4.5	H ₃₅ /Air	6.000	600	8	H ₃₅ /Air

Notes:

1. This above chart is 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.

Plasma Marking				
Material	Marking Type	Nozzle (Amps)	Marking Speed (in/min)	Mark / Shield Gases
Carbon Steel	Text	30 - 200	100	Ar/Air
	Line	45 - 200	200 - 400	Ar/Air
Stainless Steel	Text	50 - 200	100	Ar/Air
	Line	70 - 200	300 - 400	Ar/Air

Specifications are subject to change without notice. Please contact ESAB Cutting Systems for the most current specifications, numerical control, and available equipment.

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