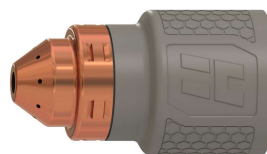


Mild Steel – 105 A – Air

428895
ohmic sensing ring

428936

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
6	3.2	6.4	200	0.5	3960	143	4880	143	2.2
8					3020	144	3730	144	2.3
10				0.8	2240	145	2740	145	2.4
12					1700	146	2080	146	2.5
16				1.0	1090	149	1320	149	2.7
20					790	153	940	152	2.8
25		Edge Start			530	157	580	156	2.9
30					380	162	410	161	3.3
32					330	164	360	163	3.6
35					280	167	300	166	4.0
40					200	172	250	170	5.1

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
1/4	0.125	0.250	200	0.5	156	143	192	143	0.086
3/8					94	145	116	145	0.095
1/2				0.8	61	147	75	146	0.101
5/8					43	149	53	149	0.105
3/4				1.0	33	152	40	151	0.108
7/8					26	155	30	154	0.111
1		Edge Start			20	158	22	157	0.117
1-1/8					16	161	18	160	0.126
1-1/4					13	164	14	163	0.139
1-1/2					9	170	10	168	0.183

Gas flow rate – slpm / scfh

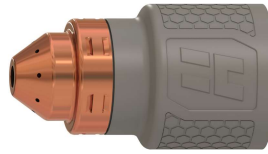
236 / 500	Hot (cutflow)
311 / 660	Cold (postflow)

Cut Charts

Stainless Steel – 105 A – Air



428895
ohmic sensing ring



428936

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width	
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage		
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm	
6	3.2	6.4	200	0.5	4700	139	5690	139	1.9	
8					3250	142	3890	142	2.1	
10					2180	144	2620	144	2.2	
12					1550	147	1880	146	2.4	
16		7.9	250	0.8	940	151	1120	150	2.6	
20				1.3	660	155	790	154	2.8	
25		Edge Start				460	159	530	158	2.9
30						330	162	360	162	2.8
32						300	163	330	163	2.8

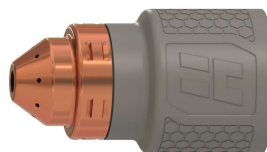
English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width	
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage		
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches	
1/4	0.125	0.250	200	0.5	185	140	224	140	0.075	
3/8					94	144	112	143	0.086	
1/2					55	148	67	147	0.096	
5/8					37	151	45	150	0.103	
3/4		0.310	250	1.3	28	154	34	153	0.109	
7/8		Edge Start				22	157	27	156	0.113
1						17	160	20	159	0.114
1-1/8						14	161	16	161	0.113
1-1/4						12	163	13	163	0.110

Gas flow rate – slpm / scfh

236 / 500	Hot (cutflow)
311 / 660	Cold (postflow)

Aluminum – 105 A – Air

428895
ohmic sensing ring

428936

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
6	3.2	6.4	200	0.5	5660	146	6730	146	2.3
8					3760	148	4500	147	2.4
10				0.8	2590	149	3230	148	2.4
12					1930	151	2490	149	2.5
16				1.0	1320	156	1650	153	2.5
20				1.3	1020	160	1190	157	2.6
25		Edge Start			660	166	810	163	2.7
30		430	172	560	168	3.0			
32	380	174	510	170	3.1				

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
1/4	0.125	0.250	200	0.5	223	146	265	146	0.093
3/8					110	149	136	148	0.096
1/2				1.0	70	152	91	150	0.098
5/8					52	155	66	153	0.100
3/4				1.3	43	159	50	156	0.102
7/8				Edge Start			34	162	40
1		26	166	31	163	0.109			
1-1/8		19	170	24	167	0.114			
1-1/4	15	174	20	170	0.122				

Gas flow rate – slpm / scfh

236 / 500	Hot (cutflow)
311 / 660	Cold (postflow)

Cut Charts

Mild Steel – 85 A – Air



428895
ohmic sensing ring



428934

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width	
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage		
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm	
3	3.2	3.8	120	0.0	6930	134	9580	131	1.5	
4				0.2	5560	134	7140	132	1.7	
6				0.2	3560	135	4220	134	1.9	
8				0.2	2360	136	2820	135	2.1	
10		4.8	150	0.5	1630	137	2030	137	2.3	
12				0.5	1240	138	1520	138	2.4	
16				1.0	840	142	970	142	2.6	
20		6.4	200	1.5	580	147	660	145	2.8	
25		Edge Start				360	153	430	150	3.0
30						200	159	300	155	3.4

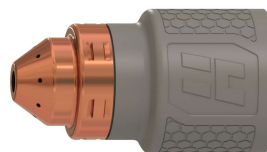
English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width	
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage		
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches	
10 GA	0.125	0.150	120	0.2	250	134	334	132	0.063	
3/16					185	134	226	133	0.070	
1/4				0.5	130	135	153	134	0.077	
3/8				0.5	70	136	86	136	0.088	
1/2		0.188	150	1.0	46	139	55	139	0.096	
5/8					34	142	39	142	0.103	
3/4		0.250	200	1.5	25	146	28	144	0.108	
7/8		Edge Start				19	150	22	147	0.114
1						13	153	17	150	0.120
1-1/8						9	157	13	153	0.128
1-1/4						6	161	10	157	0.139

Gas flow rate – slpm / scfh

212 / 450	Hot (cutflow)
264 / 560	Cold (postflow)

Stainless Steel – 85 A – Air

428895
ohmic sensing ring

428934

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
3	3.2	3.8	120	0.2	8100	132	9860	131	1.3
4					6220	133	7570	132	1.6
6					3630	135	4470	134	2.0
8		4.8	150	0.5	2260	137	2790	136	2.3
10					1500	139	1880	138	2.4
12					1040	142	1350	140	2.5
16		Edge Start			690	147	790	144	2.5
20					480	151	530	148	2.7
25					300	155	380	152	3.5

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
10 GA	0.125	0.150	120	0.2	275	133	335	131	0.060
3/16					199	134	243	133	0.071
1/4					131	135	161	134	0.082
3/8		0.188	150	0.5	65	139	81	137	0.094
1/2					36	142	47	141	0.098
5/8					27	146	32	144	0.098
3/4		Edge Start			21	150	23	147	0.102
7/8					16	153	18	150	0.114
1					11	155	15	152	0.141

Gas flow rate – slpm / scfh

212 / 450	Hot (cutflow)
264 / 560	Cold (postflow)

Cut Charts

Aluminum – 85 A – Air



428895
ohmic sensing ring



428934

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
3	3.2	3.8	120	0.2	7980	137	9520	135	1.9
4					6050	138	7470	136	2.0
6					3630	140	4750	138	2.2
8		4.8	150	0.5	2440	142	3250	141	2.4
10					1780	145	2390	143	2.5
12					1400	148	1850	146	2.6
16		Edge Start			940	154	1190	150	2.7
20					580	158	890	155	2.8
25					380	162	530	159	3.0

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
1/8	0.125	0.150	120	0.2	300	137	360	136	0.076
1/4					133	140	174	139	0.089
3/8					75	144	101	143	0.097
1/2		0.188	150	1.0	51	149	68	146	0.102
5/8					38	153	48	150	0.106
3/4					26	157	37	154	0.109
7/8		Edge Start			19	160	29	157	0.113
1					15	162	20	159	0.119

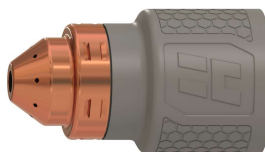
Gas flow rate – slpm / scfh

212 / 450	Hot (cutflow)
264 / 560	Cold (postflow)

Mild Steel – 65 A – Air



428895
ohmic sensing ring



428930

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
3	3.2	3.8	120	0.1	5330	133	6250	132	1.3
4					4220	133	5000	131	1.4
6				0.2	2570	133	3200	132	1.5
8				0.5	1550	135	2130	133	1.7
10				0.7	1040	137	1500	135	1.9
12				1.2	840	139	1120	137	2.0
16		6.4	200	2.0	560	145	660	143	2.3
20		Edge Start			380	151	430	148	2.5
25	Edge Start			200	155	280	153	2.8	

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
10 GA	0.125	0.150	120	0.1	191	133	225	132	0.053
3/16					0.2	138	133	166	131
1/4				0.5	93	133	117	132	0.062
3/8				0.7	44	136	64	134	0.072
1/2				1.2	30	140	40	138	0.081
5/8				0.250	200	2.0	22	145	27
3/4		Edge Start			16	150	19	147	0.097
7/8		Edge Start			11	153	14	151	0.104
1	Edge Start			8	155	10	153	0.110	

Gas flow rate – slpm / scfh

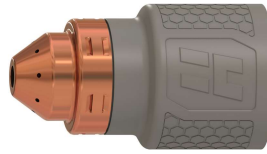
193 / 410	Hot (cutflow)
243 / 515	Cold (postflow)

Cut Charts

Stainless Steel – 65 A – Air



428895
ohmic sensing ring



428930

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
		mm	%		Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
2	3.2	3.8	120	0.1	8760	132	10820	131	0.8
3					7650	132	9730	131	1.1
4					5160	133	6120	131	1.3
6				0.2	2440	133	2720	132	1.6
8		0.5	1350	135	1550	134	1.8		
10		4.8	150	0.7	940	137	1120	136	2.0
12				1.2	740	139	890	138	2.1
16		Edge Start			480	144	510	143	2.2
20		Edge Start			330	149	360	148	2.5

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
		inches	%		Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
10 GA	0.125	0.150	120	0.1	241	132	295	131	0.047
3/16				0.2	150	133	171	132	0.055
1/4				0.5	86	134	95	133	0.064
3/8				0.7	40	136	47	135	0.075
1/2		0.188	150	1.2	27	140	31	139	0.082
5/8		Edge Start			19	144	21	143	0.087
3/4		Edge Start			14	148	15	147	0.096

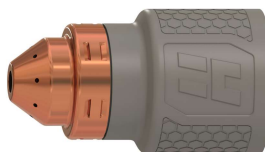
Gas flow rate – slpm / scfh

193 / 410	Hot (cutflow)
243 / 515	Cold (postflow)

Aluminum – 65 A – Air



428895
ohmic sensing ring



428930

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
2	3.2	3.8	120	0.1	9270	134	10800	133	1.4
3					7540	134	8920	133	1.5
4					5380	135	6880	133	1.5
6				0.2	2900	137	4110	135	1.6
8		0.5	1780	139	2590	137	1.7		
10		4.8	150	0.7	1220	142	1750	139	1.8
12				1.2	940	145	1320	142	1.9
16		Edge Start			610	151	810	148	2.1
20					380	157	530	153	2.4

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
1/16	0.125	0.150	120	0.1	365	134	428	133	0.056
1/8					280	134	337	133	0.059
1/4					104	137	149	135	0.064
3/8				52	141	75	138	0.069	
1/2		0.188	150	1.2	34	146	48	143	0.076
5/8		Edge Start			25	151	33	147	0.083
3/4					17	155	23	152	0.092

Gas flow rate – slpm / scfh

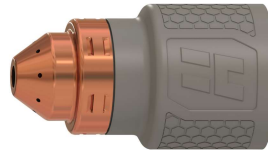
193 / 410	Hot (cutflow)
243 / 515	Cold (postflow)

Cut Charts

Mild Steel – 45 A – Air



428895
ohmic sensing ring



428925

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
0.5	3.2	3.8	120	0.0	8890	137	12500	135	1.1
1				0.1	8890	138	10670	138	1.4
1.5					8890	138	10190	139	1.5
2				0.2	6600	139	7620	140	1.7
3				0.4	3630	141	4830	139	1.8
4					2260	142	3400	138	1.9
6				0.6	1240	141	2010	140	1.9

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
26 GA	0.125	0.150	120	0.0	350	137	501	135	0.044
22 GA					350	137	445	137	0.049
18 GA				0.1	350	138	408	138	0.057
16 GA					350	138	398	139	0.061
14 GA				0.2	278	139	318	140	0.065
12 GA				0.4	173	140	219	140	0.071
10 GA					115	141	162	139	0.073
3/16				0.5	68	142	107	138	0.074
1/4				0.6	46	141	74	141	0.075

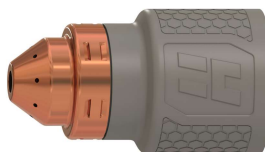
Gas flow rate – slpm / scfh

182 / 385	Hot (cutflow)
217 / 460	Cold (postflow)

Stainless Steel – 45 A – Air



428895
ohmic sensing ring



428925

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
0.5	3.2	3.8	120	0.0	8890	127	12700	125	1.1
1				0.1	8890	134	10770	132	0.8
1.5					8890	138	10110	137	0.7
2				0.2	6220	140	8990	139	0.8
3				0.4	3230	141	4620	140	1.4
4				0.5	1960	140	2410	139	2.2
6				0.6	860	142	970	141	2.4

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
26 GA	0.125	0.150	120	0.0	350	127	501	125	0.045
22 GA					350	131	445	130	0.035
18 GA				0.1	350	136	408	135	0.027
					350	138	401	137	0.026
14 GA				0.2	248	140	357	139	0.030
12 GA				0.4	145	141	214	140	0.048
					94	141	124	140	0.072
10 GA				0.5	55	139	63	138	0.102
3/16					30	144	35	144	0.082
1/4	0.6	30	144	35	144	0.082			

Gas flow rate – slpm / scfh

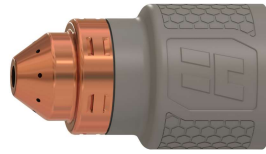
182 / 385	Hot (cutflow)
217 / 460	Cold (postflow)

Cut Charts

Aluminum – 45 A – Air



428895
ohmic sensing ring



428925

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
1	3.2	3.8	120	0.0	8260	131	11400	128	1.6
2				0.1	5970	140	9040	137	1.8
3					3350	146	6400	143	1.9
4					2210	150	4600	146	1.9
6				0.2	1240	151	2570	145	2.0

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
1/32	0.125	0.150	120	0.0	325	129	449	126	0.062
1/16					325	137	406	134	0.069
3/32				0.1	183	143	312	140	0.073
1/8					121	147	238	144	0.074
1/4					0.2	46	150	93	143

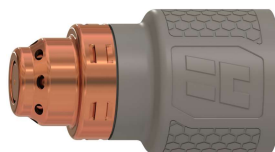
Gas flow rate – slpm / scfh

182 / 385	Hot (cutflow)
217 / 460	Cold (postflow)

Mild Steel – FineCut High Speed – Air



428895
ohmic sensing ring



428926

Metric

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width			
			mm	%		Cut Speed	Arc Voltage				
mm	A	mm	mm	%	seconds	mm/min	volts	mm			
0.5	40	3.5	3.5	100	0.0	8900	90	0.8			
0.6						8900	90	0.8			
0.8						8900	90	0.6			
1						8890	90	0.6			
1.5	45				0.2	0.3	0.4	0.6	6550	88	0.5
2									5260	88	0.5
3									2750	90	0.8
4									2250	88	0.8

English

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width			
			inches	%		Cut Speed	Arc Voltage				
inches	A	inches	inches	%	seconds	in/min	volts	inches			
26 GA	40	0.14	0.14	100	0.0	350	90	0.033			
24 GA						350	90	0.032			
22 GA						350	90	0.026			
20 GA						350	90	0.024			
18 GA	45				0.1	0.2	0.3	0.5	350	89	0.020
16 GA									250	88	0.021
14 GA									220	88	0.021
12 GA									115	91	0.032
10 GA						100	89	0.031			

Gas flow rate – slpm / scfh

162 / 343	Hot (cutflow)
180 / 382	Cold (postflow)

Cut Charts

Stainless Steel – FineCut High Speed – Air



428895
ohmic sensing ring



428926

Metric

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width						
			mm	%		Cut Speed	Arc Voltage							
mm	A	mm	mm	%	seconds	mm/min	volts	mm						
0.5	40	0.5	3.5	700	0.0	8900	64	0.7						
0.6						8900	65	0.6						
0.8						8900	65	0.5						
1	45				0.1	3.5	700	0.1	8890	64	0.4			
1.5									0.3	6320	64	0.4		
2										0.4	4830	65	0.4	
3											0.5	2550	71	0.6
4												1050	71	0.5

English

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width						
			inches	%		Cut Speed	Arc Voltage							
inches	A	inches	inches	%	seconds	in/min	volts	inches						
26 GA	40	0.02	0.14	700	0.0	350	64	0.028						
24 GA						350	65	0.024						
22 GA						350	65	0.020						
20 GA	45				0.1	0.14	700	0.1	350	65	0.016			
18 GA									0.2	350	62	0.012		
16 GA										0.3	240	64	0.017	
14 GA											0.4	200	65	0.017
12 GA												120	71	0.026
10 GA	0.6	75	71	0.023										

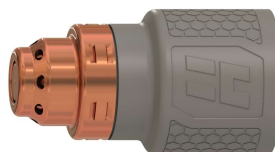
Gas flow rate – slpm / scfh

162 / 343	Hot (cutflow)
180 / 382	Cold (postflow)

Mild Steel – FineCut Low Speed – Air



428895
ohmic sensing ring



428926

Metric

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width						
			mm	%		Cut Speed	Arc Voltage							
mm	A	mm	mm	%	seconds	mm/min	volts	mm						
0.5	30	3.5	3.5	100	0.0	3800	98	1.0						
0.6						3800	97	1.0						
0.8						3800	95	1.0						
1	3800					95	0.9							
1.5	40				3.5	3.5	100	0.2	3800	94	1.0			
2								0.3	2370	93	1.1			
3	45							3.5	3.5	100	0.4	2750	90	0.8
4											0.6	2250	88	0.8

English

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width						
			inches	%		Cut Speed	Arc Voltage							
inches	A	inches	inches	%	seconds	in/min	volts	inches						
26 GA	30	0.14	0.14	100	0.0	150	98	0.042						
24 GA						150	97	0.039						
22 GA						150	95	0.040						
20 GA	150					95	0.038							
18 GA	40				0.14	0.14	100	0.1	150	94	0.035			
16 GA								0.2	150	94	0.038			
14 GA	45							0.14	0.14	100	0.3	90	93	0.042
12 GA											0.4	115	91	0.032
10 GA	0.5	100	89	0.031										

Gas flow rate – slpm / scfh

162 / 343	Hot (cutflow)
180 / 382	Cold (postflow)

Cut Charts

Stainless Steel – FineCut Low Speed – Air



428895
ohmic sensing ring



428926

Metric

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width
			mm	%		Cut Speed	Arc Voltage	
mm	A	mm	mm	%	seconds	mm/min	volts	mm
0.5	30	0.5	3.5	700	0.0	3800	74	0.9
0.6						3800	73	0.8
0.8						3800	71	0.7
1	40				0.1	3770	71	0.7
1.5					0.3	3570	71	0.6
2					0.4	2830	71	0.7
3					0.5	2550	71	0.6
4	45				0.7	1050	71	0.5

English

Material Thickness	Current	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Kerf Width
			inches	%		Cut Speed	Arc Voltage	
inches	A	inches	inches	%	seconds	in/min	volts	inches
26 GA	30	0.02	0.14	700	0.0	150	74	0.035
24 GA						150	73	0.033
22 GA						150	71	0.030
20 GA	40				0.1	150	71	0.026
18 GA					0.2	145	71	0.026
16 GA					0.3	140	71	0.025
14 GA					0.4	110	71	0.028
12 GA	45				0.5	120	71	0.026
10 GA		0.6	75	71	0.023			

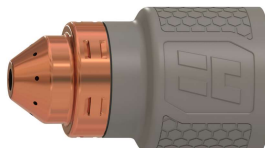
Gas flow rate – slpm / scfh

162 / 343	Hot (cutflow)
180 / 382	Cold (postflow)

Stainless Steel – 105 A – F5



428895
ohmic sensing ring



428936

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
6	3.2	6.4	200	0.5	2800	155	3600	153	1.2
8					2300	157	3100	155	
10					1500	159	2300	157	
12					1100	162	1500	159	
16	4.4	8.0	250	1.3	700	165	1000	161	1.5
20		Edge start			500	173	700	168	1.8
25		Edge start			400	181	500	172	2.2

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
1/4	0.125	0.250	200	0.5	117	155	150	153	0.047
3/8					65	158	99	156	0.045
1/2					36	163	48	160	0.053
5/8					28	165	38	161	0.047
3/4	0.175	0.310	250	1.3	20	174	28	167	0.067
7/8		Edge start			21	171	23	169	0.054
1		Edge start			15	183	18	172	0.090

Gas flow rate – slpm / scfh

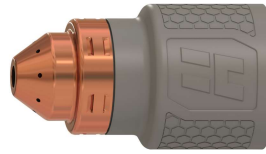
246 / 522	Hot (cutflow)
332 / 705	Cold (postflow)

Cut Charts

Stainless Steel – 85 A – F5



428895
ohmic sensing ring



428934

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
4	3.2	3.8	120	0.2	4100	137	5400	142	1.8
6					2200	142	2900	141	1.1
8				0.5	1600	146	2100	142	1.3
10					1300	149	1700	143	1.4
12		4.8	150	0.8	1000	152	1200	146	1.4
16		6.4	200	1.0	600	156	800	150	1.5
20		Edge start				300	157	400	156

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width	
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage		
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches	
10 GA	0.125	0.150	120	0.2	183	136	238	142	0.073	
1/4					74	143	98	141	0.045	
3/8				0.5	54	148	70	142	0.054	
1/2					0.188	150	0.8	33	153	42
5/8		0.250	200	1.0	25	156	31	150	0.060	
3/4		Edge start				17	157	20	155	0.071

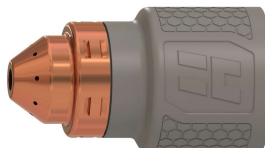
Gas flow rate – slpm / scfh

205 / 434	Hot (cutflow)
277 / 586	Cold (postflow)

Stainless Steel – 65 A – F5



428895
ohmic sensing ring



428930

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
mm	mm	mm	%	seconds	mm/min	volts	mm/min	volts	mm
4	3.2	3.8	120	0.1	3200	142	4200	143	0.8
6				0.2	1800	144	2400	145	1.0
8				0.5	1100	148	1500	148	1.1
10				0.7	700	153	900	152	1.3
12	5.0	6.0		1.2	500	157	700	154	1.5

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
					Cut Speed	Arc Voltage	Cut Speed	Arc Voltage	
inches	inches	inches	%	seconds	in/min	volts	in/min	volts	inches
10 GA	0.125	0.150	120	0.2	142	142	185	143	0.029
1/4				0.5	60	144	80	145	0.040
3/8				0.7	30	152	38	151	0.048
1/2				1.2	19	159	26	155	0.062

Gas flow rate – slpm / scfh

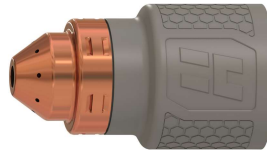
193 / 408	Hot (cutflow)
254 / 538	Cold (postflow)

Cut Charts

Stainless Steel – 45 A – F5



428895
ohmic sensing ring



428925

Metric

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
		mm	%		seconds	Cut Speed	Arc Voltage	Cut Speed	
6	3.2	4.8	150	0.6	1200	154	1200	154	0.8
7					1100		1100		

English

Material Thickness	Cut Height	Initial Pierce Height		Pierce Delay	Best Quality		Highest Production		Kerf Width
		inches	%		seconds	Cut Speed	Arc Voltage	Cut Speed	
1/4	0.125	0.18	150	0.6	46	154	46	154	0.030

Gas flow rate – slpm / scfh

176 / 374	Hot (cutflow)
222 / 470	Cold (postflow)