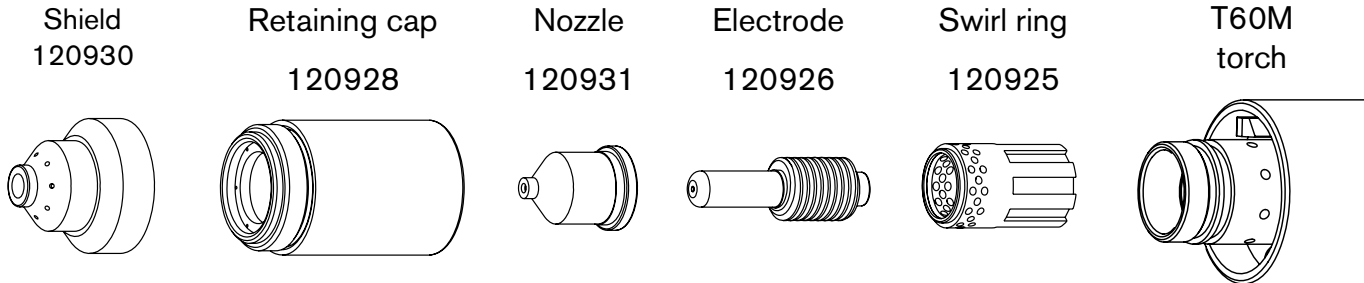


Cut charts

60 amp mechanized shielded consumables

- Torch-to-work distance for the following cut chart is 1/16 inch (1.5 mm) for all cuts.



Mild Steel

Arc Current	Arc Voltage	Motion Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
60	134	0	16 Ga	1.5	627	15926	502	12751
	134		10 Ga	3.4	264	6706	211	5359
	138	0.25	1/4"	6.4	132	3353	86	2184
	141	0.75	3/8"	9.5	63	1600	41	1041
	141	1.50	1/2"	12.7	42	1067	27	686
	147		5/8"	15.9	31	787	20	508
	153		3/4"	19.0	22	559	14	356

Stainless

Arc Current	Arc Voltage	Motion Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
60	134	0	16 Ga	1.5	625	15875	406	10312
	136	0.25	10 Ga	3.4	244	6198	159	4039
	139	0.50	1/4"	6.4	110	2794	72	1829
	145	0.75	3/8"	9.5	53	1346	34	864
	146	2.00	1/2"	12.7	35	889	23	584
	149	1.54	5/8"	15.9	26	660	17	432
	154		3/4"	19.0	18	457	12	305

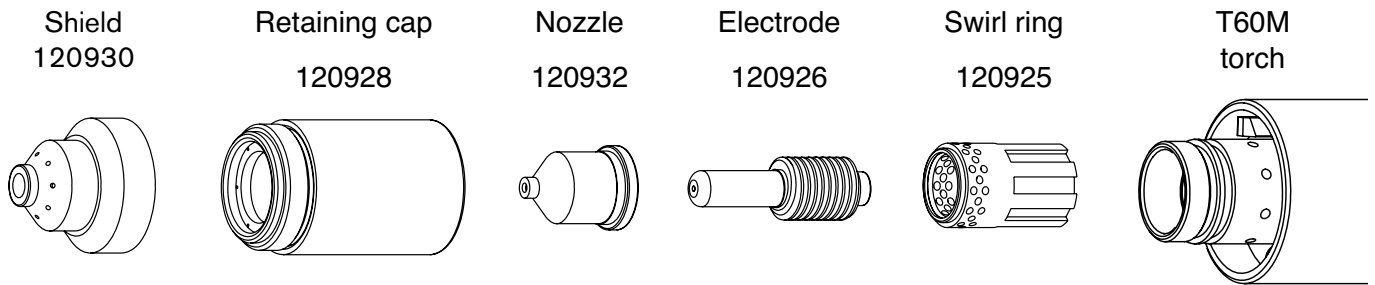
Aluminum

Arc Current	Arc Voltage	Motion Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
60	135	0	1/16"	1.6	666	16916	433	10998
	138	0.25	1/8"	3.2	400	10160	260	6604
	141		1/4"	6.4	145	3683	94	2388
	146	0.75	3/8"	9.5	74	1880	48	1219
	149	1.50	1/2"	12.7	51	1295	30	762
	153		5/8"	15.9	33	838	21	533

Maximum travel speeds are the fastest travel speeds possible to cut the material without regard to cut quality. Optimum travel speeds provide the best cut angle, least dross and best cut surface finish. **Remember that cut charts are intended to provide a good starting point for each different cut assignment.** Every cutting system requires "fine tuning" for each cutting application to obtain the desired cut quality.

40 amp mechanized shielded consumables

- Torch-to-work distance for the following cut chart is 1/16 inch (1.5 mm) for all cuts.



Mild Steel

Arc Current	Arc Voltage	Pierce Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
25	147	0	26 GA	0.5	638	16205	415	10541
	148		22 GA	0.8	500	12700	325	8255
	149		18 GA	1.3	312	7925	203	5156
	152		16 GA	1.5	176	4470	114	2896
40	144	0.25	14 GA	1.9	640	16256	221	5613
	146	0.50	10 GA	3.4	151	3835	98	2489
	147	0.75	3/16	4.7	97	2464	63	1600
	149	1.00	1/4	6.4	74	1880	48	1219

Stainless

Arc Current	Arc Voltage	Pierce Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
25	139	0	26 GA	0.5	631	16027	410	10414
	139		22 GA	0.8	496	12598	322	8179
40	142	0.25	18 GA	1.3	592	15037	335	8509
	144		16 GA	1.5	374	9500	243	6172
	144	0.50	14 GA	1.9	221	5613	144	3658
	147		10 GA	3.4	107	2718	70	1778
	149	0.75	3/16	4.7	67	1702	44	1118
	149	1.00	1/4	6.4	47	1194	31	787

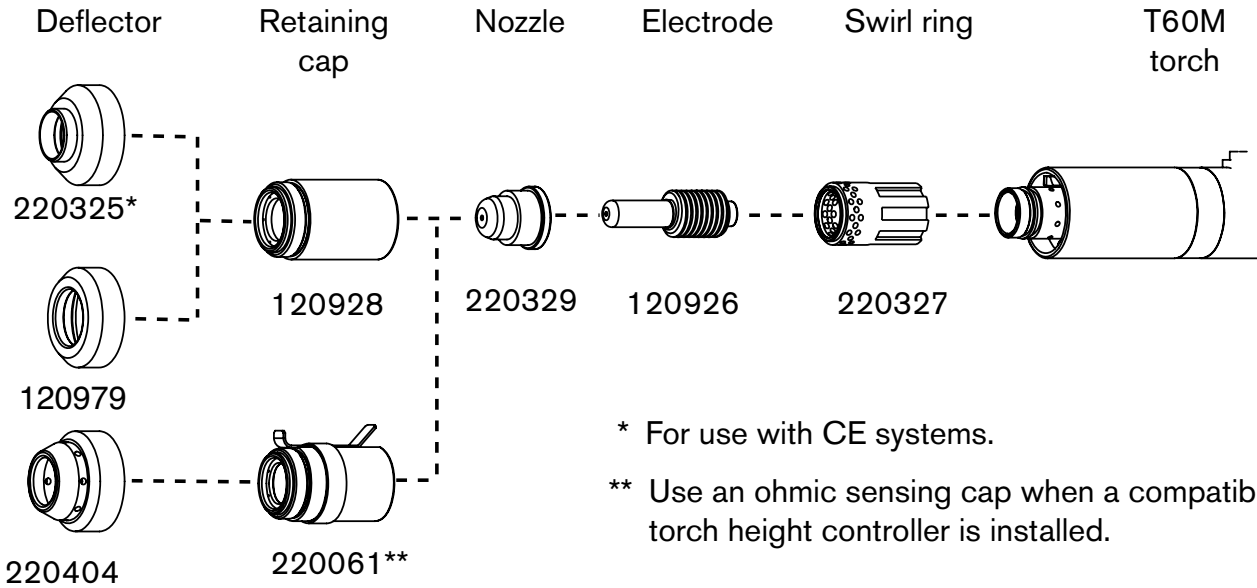
Aluminum

Arc Current	Arc Voltage	Pierce Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
25	150	0	1/32	0.8	610	15494	397	10084
	152		1/16	1.5	268	6807	174	4420
40	146	0.25	3/32	2.4	293	7442	190	4826
	149	0.50	1/8	3.2	204	5182	133	3378
	151	1.00	1/4	6.4	76	1930	49	1245

Maximum travel speeds are the fastest travel speeds possible to cut the material without regard to cut quality. Optimum travel speeds provide the best cut angle, least dross and best cut surface finish. **Remember that cut charts are intended to provide a good starting point for each different cut assignment.** Every cutting system requires “fine tuning” for each cutting application in order the desired cut quality.

FineCut consumables

- Torch-to-work distance for the following cut chart is 0.08 inches (2.032 mm) for mild steel and 0.010 inches (0.254 mm) for stainless steel.



Mild Steel

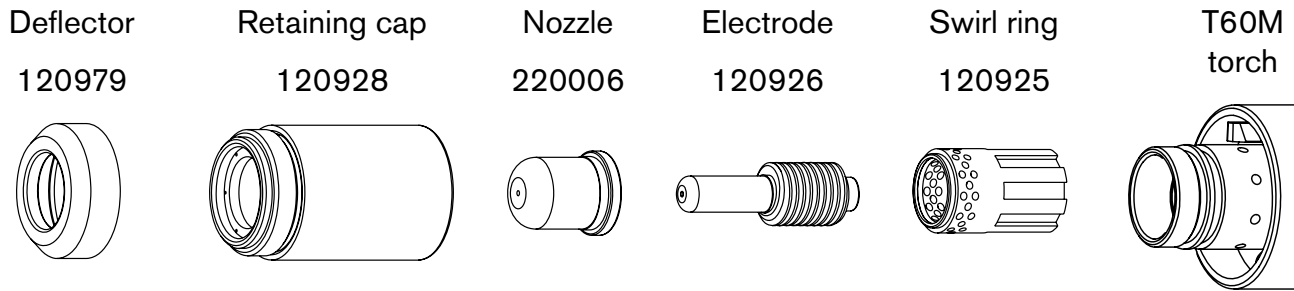
Arc Current	Arc Voltage	Material Thickness		Approx. Travel Speeds	
		Inches	mm	IPM	mm/min
50	76	10 Ga	3.4	90	2286
40	83	10 Ga	3.4	50	1270
45	77	12 Ga	2.7	120	3048
40	81	12 Ga	2.7	70	1778
	79	14 Ga	1.9	135	3810
	79	16 Ga	1.5	150	3810
	79	18 Ga	1.2	150	2540
	78	20 Ga	0.9	120	2540
30	80	24 Ga	0.6	150	3174

Stainless

Arc Current	Arc Voltage	Material Thickness		Approx. Travel Speeds	
		Inches	mm	IPM	mm/min
50	63	10 Ga	3.4	80	1905
40	73	10 Ga	3.4	60	1524
45	63	12 Ga	2.7	100	3174
40	72	12 Ga	2.7	80	1905
	65	14 Ga	1.9	150	3810
	64	16 Ga	1.5	150	3810
	64	18 Ga	1.2	150	3810
	65	20 Ga	0.9	150	3810
30	66	24 Ga	0.6	150	3810

40 amp unshielded consumables

- Torch-to-work distance for the following cut chart is 1/16 inch (1.5 mm) for all cuts.



Mild Steel

Arc Current	Arc Voltage	Pierce Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
25	125	0	26 GA	0.5	550	13970	353	8966
	128		22 GA	0.8	484	12294	315	8001
	130		18 GA	1.3	238	6045	155	3937
	131		16 GA	1.5	167	4242	109	2769
40	129	0.25	14 GA	1.9	326	8280	212	5385

Stainless

Arc Current	Arc Voltage	Pierce Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
25	127	0	26 GA	0.5	561	14249	365	9271
	127		22 GA	0.8	453	11506	295	7493
40	123	0.25	18 GA	1.3	500	12700	325	8255
	127		16 GA	1.5	367	9322	239	6071
	128		14 GA	1.9	220	5588	143	3632

Aluminum

Arc Current	Arc Voltage	Pierce Delay	Material Thickness		Maximum Travel Speeds		Optimum Travel Speeds	
			Inches	mm	IPM	mm/min	IPM	mm/min
25	125	0	1/32	0.8	564	14326	366	9296
	127		1/16	1.5	236	5994	153	3886
40	127	0.25	3/32	2.4	261	6629	170	4318

Maximum travel speeds are the fastest travel speeds possible to cut the material without regard to cut quality. Optimum travel speeds provide the best cut angle, least dross and best cut surface finish. **Remember that cut charts are intended to provide a good starting point for each different cut assignment.** Every cutting system requires “fine tuning” for each cutting application in order to obtain the desired cut quality.