

GENERAL WELDING PRODUCTS CATALOG

FARM SUPPLY





AUTOMOTIVE AFTER MARKET

TOOL& EQUIPMENT



MASS MARKET

VICTOR.

THERMAL DYNAMICS

Tweco.

THERMAL ARC

<u>Firepower</u>



The **Thermadyne Specialty Markets** group operates within multiple distribution channels to meet the needs of several distinct industry segments.

These segments consist of:

Farm Supply - farm and tractor supply and equipment companies.

Automotive Aftermarket - including national automotive retailers who advertise to a broad audience ranging from weekend repair and DIY to small automotive service and repair businesses.

Tool and Equipment Distribution Companies - those who carry light construction, industrial, and related products.

Mass Market Retailers - an area that has seen significant growth through direct sales via direct mail, catalog and internet sales, serving a variety of industries.

The organization and structure of this unit is designed to be more responsive to market segments that will benefit from the technology and the heritage of the brands developed by Thermadyne. The Thermadyne brands include Victor®, Tweco®, Thermal Dynamics®, Thermal Arc®, Arcair®, Cigweld (outside the U.S. and Americas) and Stoody®. Thermadyne Specialty Markets Group will continue to market the Firepower® line of products as well.

The Thermadyne Specialty Market group utilizes the company's expertise in engineering, brand design/development and global sourcing to offer the best value for these consumer markets.

Thermadyne is committed to superior quality products and service. Thermadyne is ISO 9001:2000 certified and most of our branded products are tested and certified by independent, accredited agencies including UL, CSA and ETL.



Table of Contents

Part No. Index	2-3
Machines at a Glance	4
Section 1 – Arc Welding Equipment and Accessories	
MIG/Flux Cored Welders	5-15
MIG/Flux Cored Welders' Consumables & Accessories	16-22
TIG/Arc/Stick Welders	23-31
TIG/Arc/Stick Welders' Consumables & Accessories	32-33
Section 2 – Manual Plasma Systems, Torches and Accessories	
Plasma Cutting Machines	34-40
Plasma Cutting Consumables & Accessories	41-42
Section 3 – Gas Equipment and Accessories	
Oxy-Acetylene Torches & Outfits	43-45
Air Fuel Torches	46-48
Powder Spray Torch Outfit	49
Oxy-Acetylene Tips & Nozzles	50-53
Regulators & Gauges	54-57
Oxy-Acetylene Handles	58-59
Oxy-Acetylene Accessories	60-61
Section 4 – Electrodes, Welding Wire and Solder	
Electrodes	62-68
Welding Wire	69-70
Solder	71-72
Section 5 – Safety and Tools	
Safety	73-80
Tools	81-87
Section 6 – Brushes and Abrasives	
Brushes and Abrasives	88-102
Warranty	104-105



Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
1-1110-1	34	0386-0495	71	1040-1103	18	1423-2143	101
1-1130-1	37	0386-1226	61	1412-0012	60	1423-2151	102
1-1625	38	0386-1379	71	1412-0020	60	1423-2152	102
1-1635-1	39	0386-1380	71	1412-0021	60	1423-2157	102
1-1670-1	40	0386-1381	71	1412-0022	60	1423-2158	102
1-3830	35	0386-1382	71	1412-0141	48	1423-2160	102
1-5130-1	36	0386-1383	71	1421-0062	84	1423-2161	102
2-1020	41	0386-1384	71	1421-0085	61	1423-2164	100
7-5200	42	0386-1385	71	1423-0016	83	1423-2165	100
7-5202 7-7501	42	0386-1386 0386-1387	71	1423-0017 1423-0018	74 74	1423-2166 1423-2171	100
7-7507	42	0386-1388	71	1423-0019	74	1423-2171	100
7-8910	41, 42	0386-1389	71	1423-0020	74	1423-2173	100
8-3486	42	0386-1390	71	1423-0026	82	1423-2178	95
8-3487	42	0386-1392	71	1423-0032	82	1423-2180	95
8-8254	41	0386-1393	71	1423-0050	82	1423-2185	97
9-1260	41, 42	0386-1394	71	1423-0051	73	1423-2186	94
9-6003	41	0386-1395	71	1423-0052	82	1423-2187	94
9-6006	41	0386-1396	71	1423-0081	88	1423-2188	94
9-6007	41	0387-0019	54	1423-0082	88	1423-2189	94
9-6099	41	0387-0020	54	1423-0083	88	1423-2190	94
9-8205	41 42	0387-0021	54	1423-0084	88	1423-2191	94
9-8206 9-8207	41, 42 41, 42	0387-0022 0387-0023	54 54	1423-0086 1423-0087	88	1423-2192 1423-2197	94
9-8208	41, 42	0387-0023	54	1423-0087	88	1423-2197	96
9-8210	41	0387-0024	54	1423-0093	84	1423-2190	97
9-8211	41	0387-0031	54	1423-0095	84	1423-2213	96
9-8212	41	0387-0032	54	1423-0096	84	1423-2220	99
9-8213	41, 42	0387-0033	54	1423-0097	84	1423-2221	99
9-8215	41, 42	0387-0034	54	1423-0296	81	1423-2224	92
9-8218	41, 42	0387-0060	54	1423-1101	72	1423-2226	92
9-8225	41	0387-0061	54	1423-1102	72	1423-2232	94
9-8226	41	0387-0062	54	1423-1108	72	1423-2254	102
9-8227	41	0387-0071	54	1423-1109	72	1423-2255	102
9-8228	41	0387-0072	54	1423-1110	72	1423-2305	96
9-8231 9-8231	41. 42	0387-0073	47	1423-1111	72 72	1423-2310	98
9-8235	41, 42	0387-0400 0387-0436	48	1423-1112 1423-1113	72	1423-2311 1423-2312	98
9-8236	41	0387-0463	46	1423-1114	72	1423-2312	91
9-8241	41	0387-0464	46	1423-1115	72	1423-2327	95
9-8243	41	0387-0465	46	1423-1209	81	1423-3143	95
9-8251	42	0387-0470	47	1423-1400	88	1423-3144	95
9-8252	41	0387-0471	47	1423-1402	88	1423-3145	95
9-8253	41	0387-0487	83	1423-1404	73	1423-3146	95
9-8258	41	0387-1232	57	1423-1405	85	1423-3147	95
9-8281	42	0656-0000	60	1423-1408	83	1423-3148	95
10-3066A-1	25	0656-0015	60	1423-1419	87	1423-3149	95
10-3066A-2	25	0656-0016	60	1423-1423	82	1423-3150	95
10-3066A-3 10-3066A-4	25 25	0781-1102 0781-2733	56	1423-1425 1423-1426	87 87	1423-3151 1423-3152	94
10-3000A-4 10-3073A-1	26	0781-8960	55	1423-1428	82	1423-3153	94
10-3073A-1 10-3073A-2	26	0781-8961	55	1423-1432	86	1423-3155	95
10-3073A-2 10-3074A-1	28	0781-8965	55	1423-1435	85	1423-3157	95
10-3083A-1	27	0781-8966	55	1423-1442	88	1423-3158	90
10-3083A-2	27	0781-9111	55	1423-1464	85	1423-3159	90
0323-0131	54	0781-9112	55	1423-2100	89	1423-3162	99
0381-0740	58	0781-9115	55	1423-2101	89	1423-3163	99
0381-0744	58	0781-9116	55	1423-2102	89	1423-3164	99
0381-0751	59	0781-9171	55	1423-2103	89	1423-3177	92
0382-0136	58	0781-9172	55	1423-2104	89	1423-3181	95
0382-0143	58	0781-9800	55	1423-2105	89	1423-3182	95
0384-0656	44	0781-9850	55	1423-2106	90	1423-3184	95
0384-0904 0384-0990	59	0781-9851	55	1423-2107	90	1423-3185	95 94
0384-0990	45	0916-0002 0916-0003	61	1423-2108 1423-2109	90	1423-3186 1423-3188	95
0384-1266	49	0916-0028	61	1423-2110	90	1423-3189	96
0384-1280	48	0916-0122	48	1423-2111	91	1423-3191	96
0384-1290	48	1000-1100	17	1423-2113	91	1423-3193	96
0384-2500	43	1000-1101	17	1423-2115	90	1423-3199	94
0384-2550	45	1000-1131	17	1423-2116	90	1423-3201	94
0384-2551	45	1000-1132	17	1423-2117	89	1423-3203	94
0384-2552	45	100047B-001	8	1423-2118	89	1423-3208	95
0384-2600	43	100048D-002	9	1423-2120	91	1423-3211	95
0384-2650	44	1020-1111	18	1423-2121	91	1423-4100	79
0384-2651	44	1020-1112	18	1423-2122	91	1423-4107	80
0384-2652	44	1023-1101	17	1423-2123	91	1423-4110	78
0000 0404	71	1023-1102	17	1423-2124	91	1423-4120	76
0386-0421					0.4	1100 1101	
0386-0421	71	1027-1381	19	1423-2125	91	1423-4124	80
	71 71	1027-1381 1040-1101	19	1423-2125 1423-2140	101	1423-4124 1423-4126	80 76



Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
1423-4133	73	1440-0206	62	1444-0027	20	CS144 2	52
1423-4173	74	1440-0207	62	1444-0028	20	CS144 3	52
1423-4175	75	1440-0208	62	1444-0029	20	CS144 4	52
1423-4177	76	1440-0210	69	1444-0050	20	CS164 0	52
1424=0013	57	1440-0211	69	1444-0051	20	CS164 1	52
1424=0014	57	1440-0212	69	1444-0052	20	CS164 2	52
1424=0015 1424=0017	57 57	1440-0215 1440-0216	69 69	1444-0053 1444-0075	20	CS164 3 CS164 4	52 52
1424=0017	57	1440-0216	69	1444-0075	21	CS3101 0	50
1424=0147	57	1440-0217	69	1444-0082	21	CS3101 00	50
1424=0147	57	1440-0221	69	1444-0140	20	CS3101 000	50
1424=0149	57	1440-0222	69	1444-0141	20	CS3101 1	50
1424=0150	57	1440-0230	69	1444-0142	20	CS3101 2	50
1424=0290	57	1440-0231	69	1444-0165	21	CS3101 3	50
1424=0292	57	1440-0235	69	1444-0220	20	CS3101 4	50
1424=0293	57	1440-0236	69	1444-0221	20	CS3101 5	50
1424=0294	57	1440-0240	70	1444-0222	20	CS3GPN 0	53
1424=0405	57	1440-0241	70	1444-0223	20	CS3GPN 00	53
1424=0406	57	1440-0245	70	1444-0224	20	CS3GPN 000	53
1424=0407 1424=0408	57 57	1440-0296 1440-0374	72 67	1444-0240 1444-0241	20	CS3GPN 1 CS3GPN 2	53
1424=0408	57	1440-0400	63	1444-0241	20	CS3GPN 3	53
1440-0025	66	1440-0401	63	1444-0242	21	CS3GPN 4	53
1440-0025	66	1440-0401	63	1444-0265	21	CS3GPN 5	53
1440-0040	49	1440-0403	63	1444-0312	15	CS6290 0	52
1440-0041	49	1440-0404	63	1444-0322	11	CS6290 00	52
1440-0042	49	1440-0405	63	1444-0324	12	CS6290 1	52
1440-0043	49	1440-0406	63	1444-0326	13	CS6290 2	52
1440-0044	49	1440-0407	63	1444-0328	14	CS6290 3	52
1440-0080	64	1440-0409	63	1444-0346	13	CS6290 4	52
1440-0081	64	1440-0411	63	1444-0348	14	CS6290 5	52
1440-0083	67	1440-0412	68	1444-0402	29	CS6290GG 1	52
1440-0095	62	1440-0413	68	1444-0406	21	CS6290GG 2	52
1440-0096	62 62	1440-0419	68	1444-0407	22	CS6290GG 3	52 52
1440-0097 1440-0098	62	1440-0420 1440-0423	63, 67	1444-0408 1444-0413	19 21	CS6290NX 0 CS6290NX 00	52
1440-0096	62	1440-0424	63, 67	1444-0417	21	CS6290NX 1	52
1440-0106	62	1440-0425	67	1444-0489	21	CS6290NX 2	52
1440-0107	62	1440-0426	68	454332	77	CS6290NX 3	52
1440-0108	62	1440-0427	64	454333	77	CS6290NX 4	52
1440-0115	62	1440-0428	64	454334	77	CS6290NX 5	52
1440-0116	62	1440-0429	64	454335	77	CSGPN 0	53
1440-0117	62	1440-0430	64	454298TA	77	CSGPN 00	53
1440-0118	62	1440-0432	65	454320	77	CSGPN 000	53
1440-0124	62	1440-0433	65	454299	77	CSGPN 1	53
1440-0125	62	1440-0434	65	454330	77	CSGPN 2	53
1440-0126	62	1440-0440	63	454300	77	CSGPN 3	53
1440-0127 1440-0134	62 62	1440-0440 1440-0441	67 63	454301 454302T2	77	CSGPN 4 CSGPN 5	53 53
1440-0135	62	1440-0442	65	454321	77	CSGPN 6	53
1440-0136	62	1440-0443	67	454322	77	CSSC12 0	51
1440-0137	62	1440-0445	70	454323	77	CSSC12 1	51
1440-0145	62	1440-0449	67	454331	77	CSSC12 2	51
1440-0146	62	1441-0004	79	9120-1010	32	CSSC12 3	51
1440-0147	62	1441-0015	75	9205-1120	33	CSSC12 4	51
1440-0148	62	1441-0023	79	9205-1130	33	CSSC12 5	51
1440-0150	62	1441-0024	78	9205-1230	33	CSSC50 0	51
1440-0151	62	1441-0025	78	9205-1250	33	CSSC50 1	51
1440-0152	62	1441-0026	78	9255-1060	33	CSSC50 2	51
1440-0153	62	1441-0038	79	9255-1061	33	CSSC50 3	51
1440-0155	66	1441-0042	79	9425-1125	32	CSSC50 4	51
1440-0156	66	1441-0047	80	9425-1225	32	CSSC50 5	51
1440-0165	66 62	1441-0048 1441-0049	80	CS1101 0 CS1101 00	50 50	CSSC50 6 CSSC60 1	51 51
1440-0180 1440-0181	62	1441-0049	80	CS1101 00 CS1101 000	50	CSSC60 1 CSSC60 2	51
1440-0182	62	1441-0059	78	CS1101 000 CS1101 1	50	CSSC60 2	51
1440-0183	62	1441-3408	76	CS1101 2	50	CSSC60 4	51
1440-0185	62	1443-0002	86	CS1101 3	50	W1001500	7
1440-0186	62	1443-0003	86	CS1101 4	50	W1001600	10
1440-0187	62	1443-0004	86	CS1101 5	50	W1002500	5
1440-0188	62	1443-0005	86	CS1101 6	50	W1002600	6
1440-0195	62	1443-0015	32	CS1108 0	50	W1003202	23
1440-0196	62	1443-0025	86	CS1108 1	50	W1003203	24
1440-0197	62	1443-0026	86	CS1108 2	50	W4011100	22
1440-0198	62	1443-0027	86	CS1108 3	50	W4011500	22
1440-0200	62	1443-0042	22	CS1108 4	50	W4011700	77
1440-0201	62	1443-0404	30	CS1118 6	50	W4011800	77
			104	004440.0	150	W4011000	1
1440-0202	62	1443-0406	31	CS1118 8	50	W4011900	77
	62 62	1443-0406 1444-0025	20	CS1118 8 CS144 0	52	W4011900 W4012000	77



Machines at a Glance

MIG • GMAW • Flux-Cored • FCAW • Welders

Model	Part #	Page	Flux- Cored	MIG	Input Voltage	Rated Amps	Rated Cycle Duty	Maximum Thickness
Fabricator® 140	W1002500	5	Yes	Yes	120V	90 Amps	20%	3/16''
Fabricator 180	W1002600	6	Yes	Yes	230V	130 Amps	25%	5/16''
Fabricator 190	W1001500	7	Yes	Yes	230V	190 Amps	15%	5/16''
Fabricator 210	100047B-001	8	Yes	Yes	230V	210 Amps	40%	1/2''
Fabricator 251	100047D-002	9	Yes	Yes	230V	250 Amps	60%	5/8''
Fabricator 281	W1001600	10	Yes	Yes	230V	300 Amps	40%	5/8''
FP95	1444-0322	11	Yes	No	120V	80 Amps	15%	3/16''
FP125	1444-0324	12	Yes	Yes	120V	88 Amps	20%	1/4''
FP135	1444-0326	13	Yes	Yes	120V	90 Amps	40%	1/4''
FP165	1444-0328	14	Yes	Yes	230V	130 Amps	20%	3/8''
FP260	1444-0312	15	Yes	Yes	230V	200 amps	60%	5/8''

TIG • Arc/Stick • GTAW • SMAW • Welders

Model	Part #	Page	AC	DC	Input Voltage	Rated Amps	Rated Cycle Duty	Maximum Thickness
95S	W1003202	23	No	Yes	120V	90 Amps	20%	1/4''
95S	W1003203	24	No	Yes	120V	90 Amps	20%	1/4''
ArcMaster® 160 S	10-3066	25	No	Yes	120/208-230V	85 Amps	100%	1/4''
ArcMaster 185 AC/DC	10-3073	26	Yes	Yes	208-230V	185 Amps	30%	3/16''
ArcMaster 200 AC/DC	10-3083	27	Yes	Yes	208-230V	200 Amps	20%	3/16''
ArcMaster 300 AC/DC	10-3074	28	Yes	Yes	208-230V	300 Amps	25%	3/8''
FP100	1443-0402	29	Yes	No	120V	65 Amps	15%	3/16''
FP235	1444-0404	30	Yes	No	230V	200 Amps	20%	1/2''
FP235 AC/DC	1444-0406	31	Yes	Yes	230V	200 Amps	20%	1/2''

Plasma Systems

Model	Part #	Page	Weight	Requires	Input	Rated	Rated	Maximum
				Shop Air	Voltage	Amps	Cycle Duty	Thickness
AirCut® 15C	1-1110-1	34	29 lbs.	No	120V	15 Amps	35%	3/16''
CUTMASTER® 39	1-3830	35	39 lbs.	Yes	120-230V	30 Amps	35%	5/8''
CUTMASTER 52	1-5130-1	36	43 lbs.	Yes	208-230V	60 Amps	40%	1-1/8''
CUTMASTER 82	1-1130-1	37	43 lbs.	Yes	208-230V	80 Amps	40%	1-1/2''
CutSkill® C-20A	1-1625	38	44 lbs.	Yes	120-230V	20 Amps	30%	3/8''
CutSkill C-35A	1-1635-1	39	44 lbs.	Yes	230V	35 Amps	35%	1/2''
CutSkill C-70A	1-1670-1	40	66 lbs.	Yes	230V	70 Amps	35%	1''



Fabricator® 140 Part No. W1002500

Machine Specifications	
Maximum output	140 Amp
Duty cycle @ 104°F	20% @ 90 Amp at 18.5V
Current range	30-140 Amp
Number of voltage settings	4
Welding voltage range	16.3-20 Volt
Maximum plate thickness	3/16" (4.8mm)
Wire diameter range Mild steel:	.023"035" (0.6 - 0.9mm)
Stainless steel:	.023"035" (0.6 - 0.9mm)
Aluminum:	.030"035" (0.8 - 0.9mm)
Flux cored:	.030"045" (0.8 - 1.2mm)
Fitted feed roll suits MIG wire	.023"030" / .035" (0.6 - 0.8 / 0.9mm)
Dimensions (HxWxD)	15.8" x 8.9" x 21.3" (400x255x540mm)
Weight	70 lbs. (31.8kg)



The new portable Fabricator 140 dual purpose wire welder delivers a very versatile and effective welding performance. With its simple operation and key set up chart even the novice can achieve high quality, professional results. This system features a quick change internal polarity adjustment to change between MIG (GMAW) and flux cored (FCAW) welding. Designed to operate from a standard household outlet and delivers a high maximum output of 140 amps. The ready to weld system comes complete with Tweco® WeldSkill® gun, return cable & clamp, input power cord & plug, spool of flux cored wire and an operating manual. Fabricator 140's high output and duty cycle makes this a great all round package. Optional cart and aluminum welding spool gun is also available.

Applications Include:

- · Home DIY Hobbyist
- Farm / Ranch
- Maintenance and repairs
- General light duty fabrication & repair
- · Sheet metal fabrication
- · Auto body repairs

Primary Power	
Primary voltage	120 Volt
Supply plug	NEMA 5-15P
Lead cord length	6 ft. (1.8m)
Maximum input current @ 140 Amp	24 Amp
Rated kVA @ 90 Amps	2.8 kVA

Package Options	
Fabricator 140 package	W1002500
• Fabricator 140 package w/ Cart	W1002501
• Fabricator 140 package w/ Spool Gun	W1002502
Fabricator 140 package w/ Cart & Spool Gun	W1002503



Fabricator® 180 Part No. W1002600

Machine Specifications	
Maximum output	180 Amp
Duty cycle @ 104°F	25% @ 130 Amp at 20.5V
Current range	30-180 Amp
Number of voltage settings	6
Welding voltage range	16-20.5 Volt
Maximum plate thickness	5/16" (7.9mm)
Wire diameter range Mild steel	: .023"035" (0.6 - 0.9mm)
Stainless steel	: .023"035" (0.6 - 0.9mm)
Aluminum	: .030"035" (0.8 - 0.9mm)
Flux cored	: .030"045" (0.8 - 1.2mm)
Fitted feed roll suits MIG wire	.023"030" / .035" (0.6 - 0.8 / 0.9mm)
Dimensions (HxWxD)	15.8" x 8.9" x 21.3" (400x255x540mm)
Weight	81 lbs. (36.8kg)



The new portable Fabricator 180 dual purpose wire welder delivers a very versatile and effective welding performance. With its simple operation and key set up chart even the novice can achieve high quality, professional results. This system features a quick change internal polarity adjustment to change between MIG (GMAW) and flux cored (FCAW) welding. Designed to operate from a standard 230 Volt outlet and delivers a high maximum output of 180 amps. The ready to weld system comes complete with Tweco® WeldSkill® gun, return cable & clamp, input power cord & plug, spool of flux cored wire and an operating manual. Fabricator 180's high output and duty cycle makes this a great all round package. Optional cart and aluminum welding spool gun is also available.

Applications Include:

- · Home DIY Hobbyist
- Farm / Ranch
- · Maintenance and repairs
- General light duty fabrication & repair
- · Sheet metal fabrication
- · Auto body repairs

Primary Power	
Primary voltage	230 Volt
Supply plug	NEMA 6-50P
Lead cord length	6 ft. (1.8m)
Maximum input current @ 140 Amp	21 Amp
Rated kVA @ 130 Amps	5 kVA

Package Options	
Fabricator 180 package	W1002600
Fabricator 180 package w/ Cart	W1002601
Fabricator 180 package w/ Spool Gun	W1002602
Fabricator 180 package w/ Cart & Spool Gun	W1002603



Fabricator® 190 Part No. W1001500 **The affordable workhorse**

Machine Specifica	ations	
Maximum output		190 Amp
Duty cycle @ 104°F		15% @ 190 Amp at 23.4V
Output @ 30% duty cycle @ 104°F		145 Amp at 22V
Current range		30-190 Amp
Number of voltage settings		8
Welding voltage range		15.8-25 Volt
Maximum plate thickn	ess	5/16" (7.9mm)
Wire diameter range	Mild steel:	.023"035" (0.6 - 0.9mm)
Sta	ainless steel:	.023"035" (0.6 - 0.9mm)
	Aluminum:	.030"035" (0.8 - 0.9mm)
	Flux cored:	.030"045" (0.8 - 1.2mm)
Fitted feed roll suits MIG wire		.023"030" / .035" (0.6 - 0.8 / 0.9mm)
Dimensions (HxWxD)		33" x 16.3" x 34.1" (838x414x866mm)
Weight		128 lbs. (58kg)

190 THERMAL ARC

The Fabricator 190 is a 230 Volt integrated MIG machine with a high 190 Amp maximum output, 8 voltage steps, spot timer and industrial spool capacity of 33/44 lb.

Supplied as standard with a wheel kit, cylinder rack, regulator and quality Tweco® WeldSkill® gun. Fabricator 190's standard features plus its comprehensive setup chart makes this package ideal for car panel and sheetmetal fabrication up to 5/16" (7.9mm) plate.

Applications include:

- · Auto body repairs
- Farm/Ranch
- · Maintenance and repairs
- Hobbyist
- · Sheet metal fabrication

Primary Power	
Primary voltage	230 Volt
Supply plug	NEMA 6-50P
Lead cord length	10ft (3m)
Maximum input current @ 190 Amp	34 Amp
Rated kVA @ 190 Amps	7.9 kVA

Supplied with



For more information visit: www.thermalarc.com



Fabricator® 210 Part No. 100047B-001 The essential sheetmetal companion

Machine Specifications		
Maximum output	250 Amp	
Duty cycle @ 104°F	30% @ 250 Amp at 26.2V	
Output @ 40% duty cycle @ 104	4°F 210 Amp at 25.3V	
Output @ 60% duty cycle @ 104	4°F 176 Amp at 23.6V	
Output @ 100% duty cycle @ 10	04°F 137 Amp at 21.0V	
Current range	20-250 Amp	
Number of voltage settings	16	
Welding voltage range	15.2-26.2 Volt	
Maximum plate thickness	1/2" (12.7mm)	
Wire diameter range Mild ste	rel: .023"045" (0.6 - 1.2mm)	
Stainless ste	rel: .023"045" (0.6 - 1.2mm)	
Aluminu	m: .030"045" (0.8 - 1.2mm)	
Flux core	ed: .030"045" (0.8 - 1.2mm)	
Fitted feed roll suits MIG wire	.035"045" (0.9 - 1.2mm)	
Dimensions (HxWxD)	32" x 21" x 36.8" (813x533x935mm)	
Weight	200 lbs. (91kg)	



The Fabricator 210 is a 208-230 Volt integrated MIG machine with a leading performance of 250 Amp maximum output @ 30% duty cycle, 16 voltage steps, spool gun ready and spot/stitch timers. Supplied as standard with a wheel kit, cylinder rack, regulator, comprehensive setup chart and quality Tweco® WeldSkill® gun. The Fabricator 210 is extremely versatile with an optimized low-end performance for .023" (0.6mm) down to 20 Amps and a top end of 250 Amps to comfortably run .045" (1.2mm) wires. Fabricator 210 is the ideal choice for sheetmetal work, training schools and light fabrication up to 1/2" (12.7mm) plate.

Applications include:

- Auto body repairs
- Farm/Ranch
- Maintenance and repairs
- Hobbyist
- · Vocational schools
- · Technical schools
- Light fabrication
- · Aluminum welding with a spool gun

Primary Power	
Primary voltage	208/230 Volt
Supply plug	NEMA 6-50P
Lead cord length	10 ft. (3m)
Maximum input current @ 250 Amp	54/49 Amp
Rated kVA @ 250 Amps	11.2 kVA

Additional Features

- · Spool gun compatible
- Easy spool gun fit-up, with no tools required
- · Spot, stitch and dwell timers
- Storage box for consumable parts, drive rolls, etc

For more information visit:

www.thermalarc.com



Fabricator® 251 Part No. 100048D-002 The accomplished all-rounder

Machine Specifica	ations		
Maximum output		300 Amp	
Duty cycle @ 104°F		40% @ 300 Amp at 31.7V	
Output @ 60% duty cycle @ 104°F		250 Amp at 26.5V	
Output @ 100% duty cycle @ 104°F		195 Amp at 24V	
Current range		20-300 Amp	
Number of voltage settings		24	
Welding voltage range		14.5-31.7 Volt	
Maximum plate thickness		5/8" (15.9mm)	
Wire diameter range	Mild steel:	.023"045" (0.6 - 1.2mm)	
Sta	ainless steel:	.023"045" (0.6 - 1.2mm)	
	Aluminum:	.030"063" (0.8 - 1.6mm)	
	Flux cored:	.030"063" (0.8 - 1.6mm)	
Fitted feed roll suits MIG wire		.035"045" (0.9 - 1.2mm)	
Dimensions (HxWxD)		32" x 27.2" x 36.8" (813x691x935mm)	
Weight		227 lbs. (103kg)	



The Fabricator 251 is a 208-230 Volt integrated MIG machine with a best in class performance of 300 Amp maximum output @ 40% duty cycle (250 Amp @ 60%), 24 voltage steps, spool gun operation on demand, digital meters and spot/stitch timers. Supplied as standard with a wheel kit, dual cylinder rack, regulator, comprehensive setup chart and quality Tweco® WeldSkill® gun. The Fabricator 251 is also extremely versatile with an optimized low end performance for .023" (0.6mm) down to 20 Amps and a top end of 300 Amps to comfortably run 1/16" (1.6mm) wires. Fabricator 251 is the ideal choice for sheetmetal work, training schools and light to medium fabrication up to 5/8" (15.9mm) plate.

Applications include:

- · Light to medium fabrication
- Farm/Ranch
- · Maintenance and repairs
- · Vocational schools
- Technical schools
- Sheet metal fabrication
- · Aluminum welding with a spool gun

Primary Power	
Primary voltage	208/230 Volt
Supply plug	NEMA 6-50P
Lead cord length	10 ft. (3m)
Maximum input current @ 300 Amp	68/62 Amp
Rated kVA @ 300 Amps	15 kVA

Additional Features

- Spool gun compatible with automatic switching
- · Easy spool gun fit-up, with no tools required
- . Spot, stitch and dwell timers
- Storage box for consumable parts, drive rolls, etc
- Digital meter



Fabricator® 281 Part No. W1001600 The versatile heavyweight all-rounder

Machine Specifica	ations		
Maximum output		300 Amp	
Duty cycle @ 104°F		40% @ 300 Amp at 31.7V	
Output @ 60% duty cycle @ 104°F		250 Amp at 26.5V	
Output @ 100% duty cycle @ 104°F		195 Amp at 24V	
Current range		20-300 Amp	
Number of voltage settings		24	
Welding voltage range		14.5-31.7 Volt	
Maximum plate thickness		5/8" (15.9mm)	
Wire diameter range	Mild steel:	.023"045" (0.6 - 1.2mm)	
Sta	ainless steel:	.023"045" (0.6 - 1.2mm)	
	Aluminum:	.030"045" (0.8 - 1.2mm)	
	Flux cored:	.030"063" (0.8 - 1.6mm)	
Fitted feed roll suits MIG wire		.035"063" (0.9 - 1.6mm)	
Dimensions (HxWxD)		32" x 27.2" x 36.8" (813x691x935mm)	
Weight		249 lbs. (113kg)	



The Fabricator 281 is identical to the popular Fabricator 251 in standard features and performance including best in class output of 300 Amp @ 40% duty cycle (250 Amp @ 60%). However, the 281 has a complete separate wire-feeder system with 26 feet of interconnecting cables from the power source. The wirefeeder conveniently fits on a pivot mount on top of the power source. The wirefeeder can simply be lifted off the pivot and carried up on top of equipment or machinery, 26 feet away. Additionally the spool gun connects to the wirefeeder allowing even further distance. The Fabricator 281 is the most versatile all-round performer in the range.

Applications include:

- · Agricultural equipment manufacture and repair
- · Transport equipment manufacture and repair
- Farm/Ranch

MIG gun

- · General maintenance and repairs
- · Light to medium fabrication
- · Aluminum welding with a spool gun

Primary Power	
Primary voltage	208/230 Volt
Supply plug	NEMA 6-50P
Lead cord length	10 ft. (3m)
Maximum input current @ 300 Amp	68/62 Amp
Rated kVA @ 300 Amps	15 kVA

Additional Features

- Separate wirefeeder with 26 ft. (8m) interconnecting cables
- Spool gun compatible with automatic switching
- · Easy spool gun fit-up, with no tools required
- · Spot, stitch and dwell timers
- Storage box for consumable parts, drive rolls, etc
- Digital meter



FP-95 Part No. 1444-0322 Flux Cored Welding System

Machine Specifications	
Maximum output	90 Amp
Duty cycle @ 104°F	15% @ 80 Amp at 17.5V
Current range	20-90 Amp
Number of voltage settings	2
Maximum plate thickness	3/16" (4.8mm)
Wire diameter range	.030"035" (0.8 - 0.9mm)
Dimensions (HxWxD)	11" x 7.75" x 14.5" (340x195x370mm)
Weight	45 lbs. (20.6kg)



The new portable FP-95 flux-cored wire welder delivers a basic yet effective welding performance. With its simple operation and key set up chart even the novice can achieve high quality, professional results. This system is designed to operate from a standard household outlet and delivers a maximum output of 90 amps. Requiring no shielding gas, it's ideal for outside use. The ready to weld system comes complete with Tweco® WeldSkill® gun, return cable & clamp, input power cored & plug, spool of flux cored wire and an operating manual. Optional cart also available.

Applications Include:

- · Home DIY Hobbyist
- Farm / Ranch
- Maintenance and repairs

Primary Power	
Primary voltage	120 Volt
Supply plug	NEMA 5-15P
Lead cord length	4 ft. (1.2m)
Rated kVA @ 90 Amps	2.5 kVA



FP-125 Part No. 1444-0324 MIG/Flux Cored Welding System

Machine Specifications	
Maximum output	110 Amp
Duty cycle @ 104°F	20% @ 88 Amp at 18V
Current range	20-125 Amp
Number of voltage settings	4
Maximum plate thickness	1/4" (6mm)
Wire diameter range	.023"035" (0.6 - 0.9mm)
Dimensions (HxWxD)	12.75" x 9.75" x 17.35" (375x250x440mm)
Weight	51 lbs. (23.5kg)



The FP-125 dual-purpose MIG welder offers maximum versatility. The unit features quick-change internal polarity adjustment that makes changing from MIG (GMAW) to flux cored (FCAW) welding quick and easy. With a standard 115 volt household current, it is suitable to use for home projects, but its versatility and 20% duty cycle also makes it ideal for medium duty general repair work and light industrial applications.

Applications include:

- · Maintenance and repairs
- · Farm/Ranch
- · Home DIY Hobbyist

Primary Power	
Primary voltage	120 Volt
Supply plug	NEMA 5-15P
Lead cord length	6 ft. (1.8m)
Rated kVA @ 90 Amps	2.8 kVA



FP-135 Part No. 1444-0326 MIG/Flux Cored Welding System

Machine Specifications	
Maximum output	135 Amp
Duty cycle @ 104°F	40% @ 90 Amp at 18V
Current range	20-135 Amp
Number of voltage settings	4
Maximum plate thickness	1/4" (6mm)
Wire diameter range	.023"035" (0.6 - 0.9mm)
Dimensions (HxWxD)	12.75" x 9.75" x 17.35" (375x250x440mm)
Weight	56 lbs. (25.5kg)

THERMAL ARC
Firepower.

The new portable FP-135 dual purpose wire welder delivers a very versatile and effective welding performance. With its simple operation and key set up chart even the novice can achieve high quality, professional results. This system features a quick change internal polarity adjustment to change between MIG (GMAW) and flux cored (FCAW) welding. Designed to operate from a standard household outlet and delivers a high maximum output of 135 amps. The ready to weld system comes complete with Tweco® WeldSkill® gun, return cable & clamp, input power cord & plug, spool of flux cored wire and an operating manual. FP-135's high output and duty cycle makes this a great all round package. Optional cart also available.

Applications Include:

- · Home DIY Hobbyist
- · Farm / Ranch
- Maintenance and repairs
- General light duty fabrication & repair

Primary Power	
Primary voltage	120 Volt
Supply plug	NEMA 5-15P
Lead cord length	6 ft. (1.8m)
Rated kVA @ 90 Amps	2.8 kVA

FP-135 Welding Kit Part No. 1444-0346

Package Includes:

- FP135 MIG Welder
- MIG Welder Cart
- · Wire Brush
- Helmet
- Chipping Hammer





FP-165 Part No. 1444-0328 **MIG/Flux Cored Welding System**

165 Amp
20% @ 130 Amp at 30V
20-165 Amp
4
3/8" (9mm)
.023"035" (0.6 - 0.9mm)
12.75" x 9.75" x 17.35" (375x250x440mm)
60 lbs. (27.3kg)



The new portable FP-165 dual purpose wire welder delivers a very versatile and effective welding performance. With its simple operation and key set up chart even the novice can achieve high quality, professional results. This system features a quick change internal polarity adjustment to change between MIG (GMAW) and flux cored (FCAW) welding. Designed to operate from a standard 230V outlet and delivers a high maximum output of 165 amps. The ready to weld system comes complete with Tweco gun, return cable & clamp, input power cord & plug, spool of flux cored wire and an operating manual. Optional cart available.

Applications Include:

- Home DIY Hobbyist
- Farm / Ranch
- · Maintenance and repairs
- · General light duty fabrication & repair

Primary Power	
Primary voltage	230 Volt
Supply plug	NEMA 6-50P
Lead cord length	6 ft. (1.8m)
Rated kVA @ 90 Amps	2.8 kVA

FP-165 Welding Kit Part No. 1444-0348

Package Includes:

- FP165 MIG Welder
- MIG Welder Cart
- · Chipping Hammer

Helmet

• Wire Brush

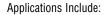




FP-260 Part No. 1444-0312 **Welding System**

Machine Specifications	
Maximum output	270 Amp
Duty cycle @ 104°F	60% @ 200 Amp at 30V
Current range	20-270 Amp
Number of voltage settings	7
Maximum plate thickness	1/2" (12.5mm)
Wire diameter range	.023"035" (0.6 - 0.9mm)
Dimensions (HxWxD)	12.75" x 9.75" x 17.35" (375x250x440mm)
Weight	60 lbs. (27.3kg)

The FP-260 dual purpose wire welder delivers a very versatile and effective welding performance. This system features a quick change internal polarity adjustment to change between MIG (GMAW) and flux cored (FCAW) welding. Designed to operate from a standard 230V outlet and delivers a high maximum output of 270 amps. The ready to weld system comes complete with Tweco gun, return cable & clamp, input power cord & plug and an operating manual. This system offers industrial grade performance at an affordable price. A spool gun option for welding aluminum is also available.



· Home DIY Hobbyist

Firepower	 Home DIY Hobbyist Farm / Ranch Maintenance and repairs General light duty fabrication Light industrial 	& repair
	Primary Power	
c0260	Primary voltage	208/230 Volt
	Supply plug	NEMA 6-50P
	Lead cord length	10 ft. (3m)
	Rated kVA @ 190 Amps	11.2 kVA



Fabricator® MIG Consumables

CONTACT TIPS

Stock No.	Part No.	Description
Fabricator 1	140, 180, 19	0
1110-1100	11-23	.023" (0.6mm)
1110-1101	11-30	.030" (0.8mm)
1110-1102	11-35	.035" (0.9mm)
1110-1103	11-40	.040" (1.0mm)
1110-1104	11-45	.045" (1.2mm)
Fabricator 2	210	
1140-1100	14-23	.023" (0.6mm)
1140-1101	14-30	.030" (0.8mm)
1140-1102	14-35	.035" (0.9mm)
1140-1103	14-40	.040" (1.0mm)
1140-1104	14-45	.045" (1.2mm)
Fabricator 2	251 and 281	
1140-1100	14-23	.023" (0.6mm)
1140-1101	14-30	.030" (0.8mm)
1140-1102	14-35	.035" (0.9mm)
1140-1103	14-40	.040" (1.0mm)
1140-1104	14-45	.045" (1.2mm)

NOZZLES

Stock No.	Part No.	Description
Fabricator '	140, 180, 190	0
1210-1100	21-37	3/8" (9.5mm)
1210-1110	21-50	1/2" (12.7mm)
1210-1120	21-62	5/8" (16mm)
Fabricator 2	210	
1220-1101	22-37	3/8" (9.5mm)
1220-1110	22-50	1/2" (12.7mm)
1220-1120	22-62	5/8" (16mm)
Fabricator 2	251 and 281	
1240-1101	24A-37-SS	3/8" (9.5mm)
1240-1110	24A-50	1/2" (12.7mm)
1240-1120	24A-62	5/8" (16mm)
1240-1130	24A-75	3/4" (19mm)

CONDUITS

Stock No.	Part No.	Description
Fabricator '	140, 180, 190 a	and 210
1420-1103	42-23-15	.023", 15ft (7.6m)
1420-1113	42-3035-15	.030"035", 15ft (4.5m)
1420-1123	42-4045-15	.040"045", 15ft (4.5m)
Fabricator 2	0E1 and 001	
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1420-1103		.023", 15ft (7.6m)
1420-1103		.023", 15ft (7.6m) .030"035", 15ft (4.5m)
1420-1103	42-23-15	· ' '





11-23



24A-50

FABRICATOR MIG GUN OPTIONS:

MIG gun options	Fabricator 190	Fabricator 210	Fabricator 251 / 281
Tweco® MINI-MIG gun	YES	YES	-
Tweco Spray Master® 250	YES	YES	YES
Tweco Professional #2	YES	YES	-
Tweco Professional #4	_	_	YES
Tweco WeldSkill® Spool Gun	_	YES	YES
Single Cylinder Rack	_	YES	YES

Tweco

Tweco® MINI-MIG Gun

The 160 amp, air-cooled Tweco Mini MIG gun is ideal for light-duty, hobby-style do-it-yourself welding applications.

Duty cycle rating

• 60% duty cycle with CO₂ gas at 160 amps

Benefits & features

Reduces operator fatigue

· Light-duty hobby gun

Easy to use

• Designed for do-it-yourself application

Out-of-the-box welding

• Fully assembled, ready to use MIG gun

Included features

- Air-cooled MIG gun
- Wire size capacity .030" .035" (0,8mm 0,9mm)
- Gun lengths in 10 ft. (3M) and 12 ft. (4M)

Optional kits

• Kits for Miller® rear connection and Lincoln® rear connection

Part No. 35-10, 10 ft. (3M) (Stock No. 1000-1131)

Part No. 35-12, 12 ft. (4M) (Stock No. 1000-1132)

Part No. HB35M-10 (Stock No.1000-1101) MIG Hobby Kit for Miller rear connection

Part No. HB35L-10 (Stock No. 1000-1100) MIG Hobby Kit for Lincoln rear connection

Tweco Spray Master® 250 MIG Gun

The 250 amp, air-cooled Tweco Spray Master is the coolest MIG gun for spray transfer welding applications.

Duty cycle rating

80% duty cycle with Argon mixed gas at 250 amps

Benefits & features

Reduces operator fatigue

· With its ergonomic handle design

Ease of installation and ease of use

With its simplified direct rear plug

Easy to repair and maintain

Improves welding productivity

- By using spray and pulse transfer welding with Argon mixed gases
- Reduces spatter build-up and thereby reduces spatter clean-up time

Out-of-the-box welding

· Fully assembled, ready to use MIG gun

Included features

- Air-cooled MIG gun
- Wire size capacity .030" .045" (0,9mm 1,2mm)
- Gun lengths in 12 ft. (4M) and 15 ft. (5M)

Part No. MS212-3545 12 ft. (4M) (Stock No. 1023-1101)

Part No. MS215-3545 15 ft. (5M) (Stock No. 1023-1102)

Miller is a registered trademark of Illinois Tool Works, Inc. Lincoln is a registered trademark of Lincoln Electric Co. The afore mention registered trademarks are in no way affiliated with Tweco or Thermadyne Industries, Inc.







Tweco® Professional's Choice #2 MIG Gun

The 200 amp, air-cooled Tweco #2 MIG gun is professional's choice for air-cooled 200 amp MIG welding application.

Duty cycle rating

• 60% duty cycle with CO₂ gas at 200 amps

Benefits & features

Most preferred gun style

• Industry's most popular handle design

Ease of installation and ease of use

• With its simplified direct rear plug

Easy to repair and maintain

Out-of-the-box welding

• Fully assembled, ready to use MIG gun

Included features

- Air-cooled MIG gun
- Wire size capacity .030" .035" (0,8mm 0,9mm)
- Gun lengths in 10 ft. (3M), 12 ft. (4M), and 15 ft. (5M)

Part No. 210-3035, 10 ft. (3M) (Stock No. 1020-1111)

Part No. 212-3035, 12 ft. (4M) (Stock No. 1020-1112)



The 400 amp, air-cooled Tweco #4 MIG gun is the most popular professional's choice gun for air-cooled 400 amp MIG welding application.

Duty cycle rating

• 60% duty cycle with CO2 gas at 400 Amps

Benefits & features

Industry standard MIG gun

• Industry's most popular MIG gun

Ease of installation and ease of use

With its enhanced direct rear plug

Easy to repair and maintain

- · Out-of-the-box welding
- Fully assembled, ready to use MIG gun

Included features

- · Air-cooled MIG gun
- Wire size capacity .030" .045" (0,9mm 1,2mm)
- Gun lengths in 10 ft. (3M), 12 ft. (4M), and 15 ft. (5M)

Part No. 410-3545, 10 ft. (3M) (Stock No. 1040-1101)

Part No. 412-3545, 12 ft. (4M) (Stock No. 1040-1102)

Part No. 415-3545, 15 ft. (5M) (Stock No. 1040-1103)





Tweco® WeldSkill® Spool Gun

The 200 amp, air-cooled Spool gun is ideal for your aluminum & stainless steel, and other MIG welding applications.

Duty cycle rating

• 60% duty cycle with CO2 gas at 200 amps

Benefits & features

Reduces operator fatique

- With comfortable handle design
- · With its lightweight design, weighing 2.8 lbs

Ease of installation and ease of use

Adjustable wire feed speed control

Improves welding productivity

· Easy spool tension control

Easy to repair and maintain

Out-of-the-box welding

• Fully assembled, ready to use MIG spool gun

Included features

- Wire size capacity .023" .035" (0,6mm 0,9mm)
- Gun assembly cable lengths in 25 ft. (8M)

Part No. WSP225-3545K3 (Stock No. 1027-1381)



FirePower Semi-automatic Spool Gun

The 200 amp, Firepower semi-automatic Spool gun is designed to be used with FP-200 & FP-260 for your mild steel and other MIG welding applications.

Duty cycle rating

• 60% duty cycle with CO, gas at 200 amps

Benefits & features

Reduces operator fatigue

 Compact design maximizes operator control and reduces hand and arm fatigue

Ease of installation and ease of use

- Gun mounted potentiometer enables easy adjustment of wire feed speed control
- 20 ft. guick connect cable system

Improves welding productivity

Easy spool tension control

Easy to repair and maintain

Out-of-the-box welding

• Fully assembled, ready to use MIG spool gun

Included features

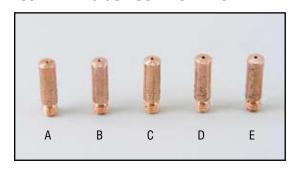
- Wire size capacity .023" .035" (0,6mm 0,9mm)
- Gun assembly cable lengths in 20 ft. (8M)

Part No. 1444-0408





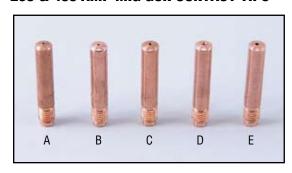
180 AMP MIG GUN CONTACT TIPS



180 Amp MIG Gun Contact Tips

_			•
	Model No.	Part No.	Description
Α	FP11-23	1444-0025	.023 wire, Tip ID .031 (10 pk)
В	FP11-30	1444-0026	.030 wire, Tip ID .038 (10 pk)
С	FP11-35	1444-0027	.035 wire, Tip ID .044 (10 pk)
D	FP11-40	1444-0028	.040 wire, Tip ID .048 (10 pk)
Ε	FP11-45	1444-0029	.045 wire, Tip ID .054 (10 pk)

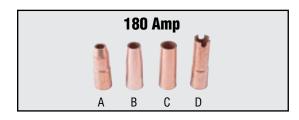
250 & 400 AMP MIG GUN CONTACT TIPS



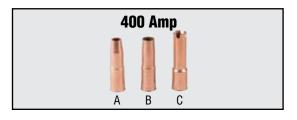
250 & 400 Amp MIG Gun Contact Tips

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	Model No.	Part No.	Description
Α	FP14-23	1444-0220	.023 wire, Tip ID .031 (10 pk)
В	FP14-30	1444-0221	.030 wire, Tip ID .038 (10 pk)
С	FP14-35	1444-0222	.035 wire, Tip ID .044 (10 pk)
D	FP14-40	1444-0223	.040 wire, Tip ID .048 (10 pk)
Ε	FP14-45	1444-0224	.045 wire, Tip ID .054 (10 pk)

MIG GUN NOZZLES



250 Amp				
			-	
	Α	В	С	



Nozzles - 180 Amp Guns

	Model No.	Part No.	Description
Α	FP21-37	1444-0050	3/8" Bore (1pk)
В	FP21-50	1444-0051	1/2" Bore (1pk)
С	FP21-62	1444-0052	5/8" Bore (1pk)
D	FP21-62-FAS	1444-0053	5/8" Bore, Arc Spot (1pk)

Nozzles - 250 Amp Guns

	Model No.	Part No.	Description
Α	FP22-50	1444-0140	1/2" Bore (1pk)
В	FP22-62	1444-0141	5/8" Bore (1pk)
С	FP22-62-FAS	1444-0142	5/8" Bore, Arc Spot (1pk)
M	ozzlee 400	Amn Cuno	

Nozzles - 400 Amp Guns

	Model No.	Part No.	Description
Α	FP24A-50	1444-0240	1/2" Bore (1pk)
В	FP24A-62	1444-0241	5/8" Bore (1pk)
С	FP24A-62-FAS	1444-0242	5/8" Bore, Arc Spot (1pk)



MIG NOZZLE INSULATORS



MIG NOZZLE INSULATORS Model No. Part No.

Model No.Part No.DescriptionFP-321444-0075Insulator for 250 amp gun (2 pk)FP-34A1444-0261Insulator for 400 amp gun (2 pk)

GAS DIFFUSERS



GAS DIFFUSERS

Model No.	Part No.	Description
FP-51	1444-0080	Diffuser for 180 amp gun (2 pk)
FP-52	1444-0165	Diffuser for 250 amp gun (2 pk)
FP-54A	1444-0265	Diffuser for 400 amp gun (2 pk)
FP-35-50	1444-0082	Male Thread diffuser for Tweco® style gun
FP-35	1444-0489	$\label{thm:constraints} \mbox{Female Thread diffuser for Tweco style gun}$

WELDING SYSTEM REPLACEMENT MIG GUNS



REPLACEMENT MIG GUNS

Model No.	Part No.	Description
FP-300	1444-0406	MIG Gun Fits FP 200, FP 260 Welders Euro Connect Maximum Output Amps 230/270
FP-200	1444-0413	MIG Gun (Helvi) Fits FP 120, FP 130, FP 160 Welders Maximum Output Amps 120/155 Requires adaptor
	1444-0417	Adaptor for use with Model 1444-0413. Adaptor is required only when replacing a Tweco Style MIG gun with a Helvi gun

Tweco

Welding Carts Benefits & features

Rugged and durable

MIG Welding cart holds welding machine on top tray and a single cylinder rack in the bottom tray and the gas bottle can be securely tied down with chains

Part No. 1444-0407 MIG Welding Cart for FP120, FP130, FP160, FP260



FP-2000 FirePower Air-Carbon Arc Gouging Torch

The FirePower Arc Gouging Torch is the perfect tool for metal removal applications on the farm, in metal shops and much more. The arc gouging process melts the metal with an electric arc and then blows it away with ordinary compressed air in a single pass!

Benefits & features

Reduces operator fatigue

Natural 15° torch angle and 360° swivel cable provide comfort and operator ease

• Torch weight is only 3.6 lbs. (1.6 kg)

Applications

- Bead removal on welded joints
- · Back gouging, edge preparation
- Defect repair

Included features

- Length: 7 ft.
- Rugged construction for the harsh environment

Operating parameters

- Carbon specs: 1/8" (3,2 mm) to 1/4" (6.5mm) round carbon electrodes and is rated up to 450 amps
- Operates with compressed air from 40 PSI (2.8 kg/cm2) to 60 PSI (4.2 kg/cm2)
- Requires a minimum of a 300 amp 3 Phase, arc welding machine. AC or DC; DC preferred

Part No. 1443-0042





Small Cart with Running Gear/ Cylinder Rack

Sturdy construction. For gas cylinders no larger than 7" (178mm) diameter, maximum weight 75 lbs. (34 kg).

Part No. W4011500



180 Amp Spool Gun

Spool gun assembly with 19 ft. cable, 180 Amp @ 30%. No interface kit required, just plug and play.

Part No. W4011100



95 S Inverter Part No. W1003202 Stick/Lift TIG Welding System

115 VAC 1 Phase 50/60Hz
Stick 90 Amp / 23.6V @ 20% TIG 95 Amp / 13.8V @ 20%
60 Volt
1/16" - 3/32"
.040" - 3/32"
13" x 5.1" x 9.0" (330x130x230mm)
9.7 lbs. (4.4kg)



Above: 95S Stick (SMAW) package option - part no. W1003202

The Thermal Arc 95 S Inverter is a versatile multi-process machine with stick and lift TIG capability. With up to 95 amps of welding power it delivers excellent performance on a wide variety of materials. In DC Lift TIG mode the 95 S provides 95 amps of welding power suitable for a wide range of materials from Chrome-Moly and steel tubing to general fabrication of mild and stainless steels. Delivering a superior smooth and stable arc performance down to 5 amps for the thinnest of materials. Extremely lightweight and portable yet designed to handle the toughest jobs.

Applications include:

- · Maintenance and repairs
- · Sheet metal fabrication
- Farm/Ranch
- · Auto body repair
- · Home DIY Hobbyist

Primary Power	
Primary voltage	115 Volt
Supply plug	NEMA 5-15P
Lead cord length	6 ft. (1.8m)
Maximum input current @ 140 Amp	24 Amp
Rated kVA @ 190 Amps	2.8 kVA

Package Options	
• 95S Stick (SMAW) package	W1003202
• 95S TIG (GTAW) package	W1003203



95 S Inverter Part No. W1003203 Stick/Lift TIG Welding System

Machine Specifications	
Input voltage	115 VAC 1 Phase 50/60Hz
Rated output	Stick 90 Amp / 23.6V @ 20% TIG 95 Amp / 13.8V @ 20%
Nominal OCV	60 Volt
SMAW Electrode Range	1/16" - 3/32"
GTAW DC Tungsten Range	.040" - 3/32"
Dimensions (HxWxD)	13" x 5.1" x 9.0" (330x130x230mm)
Weight	9.7 lbs. (4.4kg)



Above: 95S TIG (GTAW) package option - part no. W1003203

The Thermal Arc 95 S Inverter is a versatile multi-process machine with stick and lift TIG capability. With up to 95 amps of welding power it delivers excellent performance on a wide variety of materials. In DC Lift TIG mode the 95 S provides 95 amps of welding power suitable for a wide range of materials from Chrome-Moly and steel tubing to general fabrication of mild and stainless steels. Delivering a superior smooth and stable arc performance down to 5 amps for the thinnest of materials. Extremely lightweight and portable yet designed to handle the toughest jobs.

Applications include:

- · Maintenance and repairs
- · Sheet metal fabrication
- Farm/Ranch
- · Auto body repair
- · Home DIY Hobbyist

Primary Power	
Primary voltage	115 Volt
Supply plug	NEMA 5-15P
Lead cord length	6 ft. (1.8m)
Maximum input current @ 140 Amp	24 Amp
Rated kVA @ 190 Amps	2.8 kVA

Package Options	
95S Stick (SMAW) package	W1003202
• 95S TIG (GTAW) package	W1003203



ArcMaster® 160 S Inverter Stick/Lift TIG Welding System Part No. 10-3066 Tough, compact and portable

Input Voltage	115/230 VAC 1 Phase
Input Frequency	50/60 Hz
Output range	5-85 amps (115V) 5-160 amps (230V)
Rated Output @ Duty Cycle	85A @ 23V 100% Duty Cycle (115V) 160A @ 26V 35% Duty Cycle (230V)
Max OCV	65
Electrode Size	3/32" - 1/8" STICK electrode
Dimensions (HxWxD)	10.2" x 5.1" x 12.6" (260x130x320mm)
Weight	17.6 lbs. (8kg)



The Thermal Arc ArcMaster 160 S is a multi voltage; full digital control, DC, Stick/Lift TIG inverter power supply. Standard features include: lift TIG start, VRD, adjustable hot start, arc force control and cellulose E6010 compatibility. This is the ultimate compact, highly portable unit designed for Stick and lift TIG welding processes.

Features:

- · High 160 Amp output
- E6010 Stick (Cellulose) compatible
- Arc force control
- · Programmable hot start
- Smart Logic[®] and Easy Link multi-voltage 115, 208-230 VAC, single phase
- · Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- Intelligent self diagnostic
- · Light weight, compact and portable

Package Options	
• 160 S w/ stick kit & case	10-3066A-1
• 160 S w/ stick kit, TIG Kit w/valve & case	10-3066A-2
160 S w/ stick kit, TIG Kit TIG Kit w/valve, Argon regulator & foot control	10-3066A-3
160 S w/ TIG torch with valve & built-in amperage control, work clamp & cable Argon regulator & case	10-3066A-4

For more information visit:

www.thermalarc.com



ArcMaster® 185 AC/DC Inverter TIG Welding System Part No. 10-3073 Compact and portable

Machine Specifications	
Input Voltage	208/230 VAC, 1 Phase
Input Frequency	50/60 Hz
Output range	5-185 amps DC mode TIG 10-185 amp AC mode TIG (60Hz cleaning 50%) 5-160 amp DC mode STICK 10-160 amp AC mode STICK
Rated Output @ Duty Cycle	185A / 17.4V @ 30% TIG 160A / 27V @ 40% STICK
Max OCV	65
SMAW Electrode Range	3/32" - 5/32"
GTAW DC Tungsten Range	.040" - 5/32"
Dimensions (HxWxD)	14.2" x 7.1" x 16.5" (360 x 180 x 420mm)
Weight	37.5 lbs. (17kg)



The Thermal Arc ArcMaster 185 AC/DC is a multi voltage, full digital control, AC/DC, Stick/ Lift TIG/ HF TIG inverter power supply. Standard features include: high frequency start, lift TIG start, up/ down slope, pulse, repeat (latch) function, spot timer, job Save & Load, VRD and cellulose E6010 compatibility. This is the ultimate unit designed for precision TIG and Stick welding of all weldable materials. Superior, true square wave output combines with highly developed balance and cleaning features to deliver an unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

Features:

- Fully featured with outstanding TIG welding performance
- E6010 Stick (Cellulose) compatible
- · Rapid Pulse output
- · Job Save & Load
- Smart Logic[®] and Easy Link multi voltage 208/230 VAC, single phase
- · Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- · Intelligent self diagnostic
- · Compact and portable

Package Options

- 185 ACDC w/ air cooled 150 Amp TIG 10-3073A-1 torch &accessory kit, work clamp, stick electrode holder, Argon regulator, gas hose & foot control
- 185 ACDC w/ air cooled 150 Amp TIG 10-3073A-2 torch with built-in on/off switch, work clamp, Argon regulator



ArcMaster® 200 AC/DC Inverter TIG Welding System Part No. 10-3083 Portable with maximum flexibility

Machine Specifications	
Input Voltage	208/230/460 VAC, 1 & 3 Phase
Input Frequency	50/60 Hz
Output range	5-200 amp DC mode TIG 10-200 amp AC mode TIG (60Hz cleaning 50%) 5-160 amp DC mode STICK 10-160 amp AC mode STICK
Rated Output @ Duty Cycle	200A / 18V @ 20% TIG 160A / 26V @ 40% STICK
Max OCV	65
SMAW Electrode Range	3/32" - 5/32"
GTAW DC Tungsten Range	.040" - 5/32"
Dimensions (HxWxD)	14.2" x 7.1" x 16.5" (360 x 180 x 420mm)
Weight	37.5 lbs. (17kg)



The Thermal Arc ArcMaster 200 AC/DC is the same full digital control, AC/DC, Stick/ Lift TIG/ HF TIG inverter power supply as the 200 AC/DC with a higher output and expanded input voltage capabilities for maximum user flexibility. Standard features include: High frequency start, lift TIG start, up/ down slope, pulse, repeat (latch) function, spot timer, job Save & Load, VRD and cellulose E6010 compatibility. This is the ultimate unit designed for precision TIG and Stick welding of all weldable materials. Superior, true square wave output combines with highly developed balance and cleaning features to deliver an unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

Features:

- Fully featured with outstanding TIG welding performance
- E6010 Stick (Cellulose) compatible
- · Rapid Pulse output
- · Job Save & Load
- Smart Logic[®] and Easy Link multi voltage 208/230/460 VAC, single and three phase.
- · Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- · Intelligent self diagnostic
- · Compact and portable

Package Options

- 200 ACDC w/ air cooled 200 Amp TIG 10-3083A-1 torch & accessory kit, work clamp, stick electrode holder, Argon regulator, gas hose & foot control
- 200 ACDC w/ air cooled 200 Amp TIG 10-3083A-2 torch with built-in on/off switch, work clamp, Argon regulator



ArcMaster® 300 AC/DC Inverter TIG Welding System Part No. 10-3074 Powerful and portable with maximum flexibility

Machine Specifications	
Input Voltage	208/230/460 VAC, 1 & 3 Phase
Input Frequency	50/60 Hz
Output range	5-300 amp DC mode 5-300 amp AC mode TIG (60Hz cleaning 50%)
Rated Output @ Duty Cycle	300A / 32V @ 25% (1/3 Phase) 250A / 30V @ 40% (1/3 Phase)
Max OCV	65
SMAW Electrode Range	3/32" - 5/32"
GTAW DC Tungsten Range	.040" - 5/32"
GMAW Wire Dia. Range^	.023"045"
CAG Electrode Range	1/8" - 3/16"
Dimensions (HxWxD)	16.5" x 8.3" x 17.7" (420 x 210 x 450mm)
Weight	53 lbs. (24kg)

[^]Requires Portafeed VS 212 in CC mode.



The Thermal Arc ArcMaster 300 AC/DC is the top end high out put, multi voltage, full digital control, AC/DC, Stick/
Lift TIG/HF TIG inverter power supply. Standard features include: High frequency start, lift TIG start, up/ down slope, pulse, repeat (latch) function, spot timer, job Save & Load, VRD and cellulose E6010 compatibility. This is the ultimate unit designed for precision TIG and Stick welding of all weldable materials. Superior, true square wave output combines with highly developed balance and cleaning features to deliver an unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

Features:

- Fully featured with outstanding TIG welding performance
- E6010 Stick (Cellulose) compatible
- · Rapid Pulse output
- Job Save & Load
- Smart Logic[®] and Easy Link multi voltage 208/230/460 VAC, single and three phase
- · Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- · Intelligent self diagnostic
- · Compact and portable

Package Options

 300 ACDC w/ air cooled 200 Amp TIG 10-3074A-1 torch & accessory kit, work clamp, stick electrode holder, Argon regulator, gas hose & foot control

For more information visit:

www.thermalarc.com



FP-100 Part No. 1443-0402 **Welding System**

Machine Specifications	
Output range	5-85 amps (120V)
Rated Output @ Duty Cycle	65A @ 15% Duty Cycle (120V)
Max OCV	65
Consumable Size	1/16" to 3/32" STICK electrode
Dimensions (HxWxD)	11.5" x 9" x 13.3" (290x225x338mm)
Weight	27 lbs. (12kg)

THERMAL ARC.
Respond.
FP-100

Enjoy the convenience of arc welding repairs at an affordable price. The FP-100 operates on standard 120 volt household current and is designed to be simple to operate. The FP-100 portable arc welding system features AC welding output as well as infinite amperage control making it easy for even novice welders to obtain professional results. The rugged easy grip handle and its light weight make this unit both practical and portable. The FP-100 is ideal for home, farm and light maintenance repairs.

Applications include:

- Home DIY hobbyist
- Farm/ranch
- · Maintenance & repairs
- · General fabrication

Primary Power	
Primary voltage	120 Volt
Supply plug	NEMA 5-15P
Lead cord length	6 ft. (1.8m)
Rated kVA @ 85 Amps	2.5 kVA



FP-235 Part No. 1443-0404 **Welding System**

Machine Specifications	
Output range	20-235 amps (230V)
Rated Output @ Duty Cycle	200A @ 20% Duty Cycle
Max OCV	65
Consumable Size	1/16" - 5/32" STICK electrode
Dimensions (HxWxD)	23" x 17.5" x 14" (597x441x360mm)
Weight	17.6 lbs. (8kg)



The FP-235 offers powerful 235 Amp AC (SMAW) welding performance at an affordable price. The FP-235 features infinite amperage adjustment, which provides precise welding control. This versatile unit is ideal for both light and heavy-duty repairs. The FP-235's rugged design delivers the reliability and performance to make it an ideal unit for general fabrication as well as farm, ranch, automotive and light maintenance repairs.

Applications include:

- · Home DIY hobbyist
- · Farm/ranch
- · Maintenance & repairs
- · General fabrication

Primary Power	
Primary voltage	230V
Supply plug	NEMA 6-50P
Lead cord length	6 ft. (1.8m)



FP-235 AC/DC Part No. 1443-0406 **Welding System**

Machine Specifications	
Output range	20-235 amps (230V)
Rated Output @ Duty Cycle	200A @ 20% AC Duty Cycle 135A @ 20% DC Duty Cycle
Max OCV	65
Consumable Size	1/1" - 5/32" STICK electrode
Dimensions (HxWxD)	23" x 17.5" x 14" (597x441x360mm)
Weight	113 lbs. (51kg)



The FP-235 AC/DC provides powerful 235 Amp AC/185 Amp DC Arc (SMAW) welding performance at an affordable price. DC output produces better visual welds, with more control and less splatter. Its the preferred method for overhead out of position welding. The FP-235 features infinite amperage adjustment, which provides precise welding control. This versatile unit is ideal for both light and heavy-duty repairs. The FP-235's rugged, portable design delivers the reliability and performance to make it an ideal unit for general fabrication as well as farm, ranch, automotive and light maintenance repairs.

Applications include:

- Home DIY hobbyist
- Farm/ranch
- Maintenance & repairs
- General fabrication

Primary Power	
Primary voltage	230V
Supply plug	NEMA 6-50P
Lead cord length	6ft (1.8m)



FirePower Electrode Holder

The industry standard for your stick electrode welding applications with 200 amp capacity.

Benefits & features

Long lasting

- Heavy duty, shock-proof nylon handle
- Ball point cable connection

Ease of use and ease of installation

• Reversible top and bottom insulators

Included features

- 6-position jaw pattern to hold welding electrode in place
- Fully insulated
- Supplied with an Allen wrench and cable connection ferrule assuring efficient connection and minimizing cable strand breakage at the connection

Part No. 1443-0015

Tweco WeldSkill "HOLD-TITE" Electrode Holder

Provides a unique style, with Tweco-style head provides the gripping force to hold the stick electrode in place. It has 400 amp capacity for heavy duty welding applications.

Benefits & features

Long lasting

- · Rugged and reliable design
- · Ball point cable connection

Ease of use and ease of installation

Included features

- Fully insulated
- Supplied with an Allen wrench and cable connection ferrule assuring efficient connection and minimizing cable strand breakage at the connection

Part No. WHT-400 (Stock No. 9120-1010)

Cable Connectors

Part No.	Stock #	Description	Cable Capacity	Standard Package
1-WPC	9425-1125	Complete Set of Connectors	4, 2, 1	1
2-WPC	9425-1225	Complete Set of Connectors	1/0, 2/0, 3/0	1







Tweco Welding Ground Clamps – Steel levers

Comes in 300 amp and 500 amp capacities. These can be used in stick welding, submerged arc welding, gas metal arc welding, gas tungsten arc welding applications for light and medium duty metal fabrication.

Benefits & features

Long lasting

- Heavy duty spring
- Ball point screw to secure the welding cable to the ground clamp

Included features

- Steel upper and lower levers
- · Heavy duty spring providing clamping force to the work surface
- · Connector body with ball point screw
- Overall length 9"
- Cable connection capacity of 1/2" stud connection

Ease of use and ease of installation with large jaw opening of 2" with jaw opening depth of 1.75"

Part No. SGC-300 (Stock No. 9205-1230) - 300 amp capacity Part No. SGC-500 (Stock No. 9205-1250) - 500 amp capacity



Comes in 200 amp and 300 amp capacities. These can be used in stick welding, submerged arc welding, gas metal arc welding, gas tungsten arc welding applications for light and medium duty metal fabrication.

Benefits & features

Long lasting

- Rugged and reliable in design
- Ball point screw to secure the welding cable to the ground clamp

Included features

- Copper cast upper and lower jaws
- Heavy duty spring providing clamping force to the work surface
- Overall length 6" (200 amp) and 8.5" (300 amp)

Ease of use and ease of installation with large jaw opening of depth of 3" (200 amp) and 4" (300 amp)

Part No. GC-200 (Stock No. 9205-1120) – 200 amp capacity Part No. GC-300 (Stock No. 9205-1130) – 300 amp capacity

Tweco Switchable Magnetic Ground Clamps

Can be used as a ground clamp device around pipe and flat applications, or with any large magnetic base metal. It is used to lay the ground clamp magnetically attached to the metal being welded, thus providing the electrical ground.

Benefits & features

Long lasting - rugged and reliable in design

Included features

• 200 amp and 300 amp capacities

Very easy to use and easy to install

- Get a very secure grip by turning the knob and release the grip by turning it back
- These are switchable, meaning that the ground clamp can easily be removed by turning "off" the magnetic function thereby releasing the ground clamp from the base metal structure

Part No. SMGC-200 (Stock No. 9255-1060) - 200 amp capacity Part No. SMGC-300 (Stock No. 9255-1061) - 300 amp capacity







AirCut™ 15C Part No. 1-1110-1

Portable Plasma Cutting System with Built-In Air Compressor

Internal Air Compressor. This unit comes standard with a built-in air compressor. Lightweight. Weighs only 29 lbs. (13.2kg), almost 50% lighter than the competition.

Superior Cutting Capacity. 1/8" (3mm) Recommended Cut,

3/16" (5mm) maximum capability.

Easy to Use. 120V, 15 Amp plug standard. Plug it in anywhere! Faster Cut Speeds. 25% more cutting power provides 25% faster

cut speeds than the competition.



Cut Capacity: 1/8" (3mm) Recommended Cut

Output Current: 15 Amps Fixed

Input Power: 120V (± 10%), Single Phase,

60Hz., 12 Amps

Duty Cycle: 35% @ 15A

Dimensions: Length 18" (457mm)

Width 6.5" (165mm) Height 9.5" (241mm)

Weight: 29 lbs. (13.2 kg) **Ship Weight:** 38 lbs. (17.2 kg)

(includes Unit, Power Cable, Torch and Leads)

Work Cable: 19.5 ft. (5.9m) **Input Cable:** 8.5 ft. (2.6m)

Gas Type: Air from Built-In Air Compressor

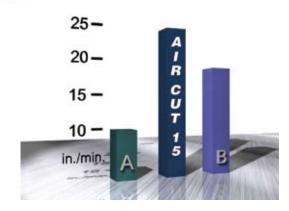
Pilot: CD Start

Control: Hand Torch Switch

Torch: PCH-10

Torch

Configuration: Hand 70°, 20′ (6.1m) Leads



Cut Speed Comparison 1/8" (3mm)



CUTMASTER® 39 Part No. 1-3830

The CUTMASTER 39 provides the same reliability and performance you have come to expect from the CUTMASTER TRUE™ Series. This 30 Amp unit produces quality cuts from gauge all the way up to maximum cut of 5/8" (15mm). Unlike some of its competition, the CUTMASTER 39 also offers features like auto pilot restart, ATC® torch quick disconnect, and automatic voltage selection.

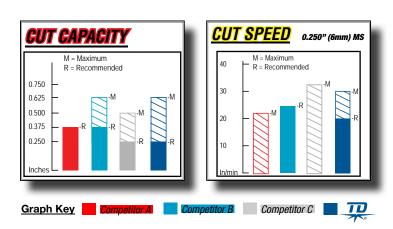
The CUTMASTER 39 is the most durable 1/4" (6mm) plasma cutting machine on the market today. It is the only system in its class to offer the protection of TRUE GUARD™.

Applications include:

- Auto Body/Marine Repair
- Plumbing & HVAC
- Home Shop
- Metal Building & Roofing Construction
- · Rental Fleets

Max Amperage Output - (Amps)	30
Output Power - (Kw)	2.8
Recommended Cut - Inches (mm)	0.250 (6)
Max Cut - Inches (mm)	0.625 (15)
Pierce Rating - Inches (mm)	0.250 (6)
Input Voltage - (Volts, Phase, Hz)	120-230V, 1, 50/60
Duty Cycle (@40°C)	35%@ 30A, 60%@ 22A
Amperage Draw	29 (120V, 1 ph) 14 (230V, 1 ph)
Dimensions (H x W x L) Inches (mm)	15 x 12 x 24 (381 x 305 x 610)
Weight - lbs. (kg)	39 (17.7)
Torch Model	SL60
Air Pressure - psi (bar)	65 (4.5)
Flow - Cfm (I/m)	5 (141)
Warranty (Unit/Torch) Parts and Labor	4/1







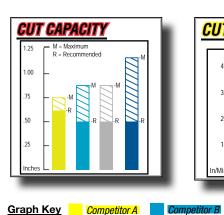
CUTMASTER® 52 Part No. 1-5130-1

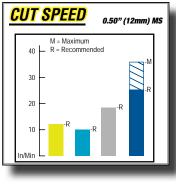
The CUTMASTER 52 is the most powerful and lightest weight 1/2" (12mm) machine on the market today. The CUTMASTER TRUE™ Series are the only systems that offer the precision of the TRUE Cut Drag Tip Series. The 60 Amp tip allows the system to drag cut up to 1/4" (6mm) with ease. Giving the absolute best cut quality possible.

This unit cuts through mild, stainless, or aluminum up to 1.125" (30mm) thick. The CUTMASTER 52 combines power with the well known performance and features of the industry-leading 1Torch®.

Applications include:

- Construction
- Maintenance/Repair
- Fabrication





Competitor C

UT SPEED	0.50" (12mm) MS
M = Maximum 40 R = Recommend	ded
30 —	-M
20	-R
10 - R	R
In/Min	

	F
*	
Calvania	

Max Amperage Output - (Amps)	60
Output Power - (Kw)	6.2
Recommended Cut - Inches (mm)	0.500 (12)
Max Cut - Inches (mm)	1.125 (30)
Pierce Rating - Inches (mm)	0.500 (12)
Input Voltage - (Volts, Phase, Hz)	• 208/230 - 460 1/3 Phase 50/60Hz • 400V 3 Phase 50Hz • 600V 3 Phase 50/60Hz
Duty Cycle (@40°C)	40%@ 60A, 60%@ 55A, 100%@ 50A
Amperage Draw	45 (230V, 1 ph) 24 (230V, 3 ph) 16 (460V, 3 ph)
Dimensions (H x W x L) Inches (mm)	15 x 12 x 24 (381 x 305 x 610)
Weight - Ibs (kg)	43 (19.5)
Torch Model	SL60 Hand SL100 Mechanized
Air Pressure - psi (bar)	75 (5.2)
Flow - Cfm (I/m)	6.7 (190)
Warranty (Unit/Torch) Parts and Labor	4/1



CUTMASTER® 82 Part No. 1-1130-1

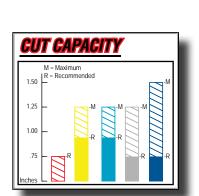
The CUTMASTER 82 weighs in at a mere 43 lbs. (19.5kg) almost 50% less than its leading competitor, while still offering superior cutting power.

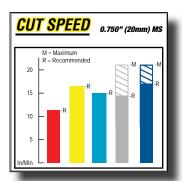
Don't let the size of this unit fool you, it's more than capable of cutting 3/4" (20mm) with a maximum capability of $1\frac{1}{2}$ " (40mm). This unit, like all other TRUE[™] CUTMASTERs, is equipped with the 1Torch^{\otimes} .

Applications include:

- Heavy Fabrication
- Manufacturing
- Contractors

Max Amperage Output - (Amps)	80
Output Power - (Kw)	9
Recommended Cut - Inches (mm)	0.750 (20)
Max Cut - Inches (mm)	1.500 (40)
Pierce Rating - Inches (mm)	0.625 (15)
Input Voltage - (Volts, Phase, Hz)	• 208/230 - 460 1/3 Phase 50/60Hz • 400V 3 Phase 50Hz • 600V 3 Phase 50/60Hz
Duty Cycle (@40°C)	40%@ 80A, 60%@ 65A 100%@ 55A
Amperage Draw	72 (230V, 1 ph) 39 (230V, 3 ph) 21 (460V, 3 ph)
Dimensions (H x W x L) Inches (mm)	15 x 12 x 24 (381 x 305 x 610)
Weight - Ibs (kg)	43 (19.5)
Torch Model	SL60 Hand SL100 Mech & Auto
Air Pressure - psi (bar)	70 (4.8)
Flow - Cfm (I/m)	6.7 (190)
Warranty (Unit/Torch) Parts and Labor	4/1





Graph Key

Competitor A

Competitor B

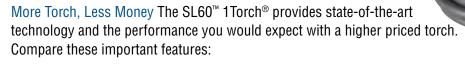
Competitor C
Competitor D



CutSkill® C-20A Part No. 1-1625

Fast, Easy Cuts on Most Metals. A favorite for HVAC installations, sheet metal fabrication, metal art, and home projects, this machine delivers clean cuts on most metals including stainless steel, aluminum, mild steel copper or brass, with minimum heat input & distortion of metal. It also cuts through rusted, painted or coated surfaces without prior surface preparation.

Portable and Powerful This inverter based power supply automatically links the unit to primary voltage from 115 to 230 Volts, single phase, 50 or 60 Hz, typically found in most homes and maintenance shops. Weighing just 44 lbs. (20 kg), the C-20A is easy to move from location to location. Connect to an air compressor, and this simple-to-use system is ready to cut.





- Easy-to-use torch trigger release and ergonomic handle provide comfort during long cutting sessions
- Latch feature allows the cutting arc to remain active without constantly depressing the torch switch
- Starts without high-frequency so it won't interfere with controls or computers
- SureLok® electrode eliminates tip wobble found in some blow-apart torch designs, resulting in a cleaner arc and longer parts life
- Protective interlock circuitry disables the power supply if torch consumable parts are incorrectly assembled
- · Light-weight, flexible 20 ft. (6.1m) torch leads
- Full 1-year warranty on repair parts and labor

Cut Capacity	Input	Output	Duty Cycle	Panel Indicators	Dimensions	Weight
3/8" (10mm)	115V +/-10%, 1 ph, 50/60 Hz, 20A 230V +/-10%, 1 ph, 50/60 Hz, 14A	20A @ 115VAC 25A @ 230VAC	30% @ 20 Amps	AC, Over Temp, Air, Latch	H: 14.8" (375mm) W: 8.3" (210mm) L: 20.0" (510mm)	Net: 44 lbs. (20 kg) Ship: 53 lbs. (24 kg)

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



CutSkill® C-35A Part No. 1-1635-1

Clean Cuts with Little or No Dross. Designed for the 1/2" (12mm) cutting market, this economical plasma cutter is a favorite for auto body repair, light duty maintenance, and sheet metal fabrication, and it is also very useful around the farm or ranch. It cuts quickly through stainless steel, aluminum, mild steel copper or brass, with minimum heat input & distortion of metal and it also cuts through rusted, painted or coated surfaces without prior surface preparation.

Portable and Powerful. This inverter-based system operates on standard 230 VAC single phase input power and provides adjustable current from 15 to 35 amps. Weighing just 44 lbs. (20 kg), this lightweight power source is easy to move from location to location. Simply connect to an air compressor or other air source and you are ready to cut.



See What You Cut... While You Cut. Precise, reliable cutting is what you can expect from the SL60® 1Torch®, and the excellent front end parts visibility lets you see what you cut, while you cut. Important features & benefits include:

- Precision-engineered consumable parts are easy to change and require no tools
- Easy-to-use torch trigger release and ergonomic handle provide comfort during long cutting sessions
- Two modes of operation available standoff cutting or drag cutting
- Light-weight, flexible 20 ft. (6.1m) torch leads
- Latch feature allows the cutting arc to remain active without constantly depressing the torch switch
- Starts without high-frequency so it won't interfere with controls or computers
- SureLok® electrode eliminates tip wobble found in some blow-apart torch designs, resulting in a cleaner arc and longer parts life
- Protective interlock circuitry disables the power supply if torch consumable parts are incorrectly assembled
- Full 1-year warranty on repair parts and labor

Cut Capacity	Input	Output	Duty Cycle	Panel Indicators	Dimensions	Weight
1/2" (12mm)	230V +/-10%, 1 ph, 50/60 Hz, 32A	15-35 Amps, Continuously Adjustable	35% @ 35 Amps	, , ,	H: 14.8" (375mm) W: 8.3" (210mm) L: 20.0" (510mm)	Net: 44 lbs. (20 kg) Ship: 53 lbs. (24 kg)



CutSkill® C-70A Part No. 1-1670-1

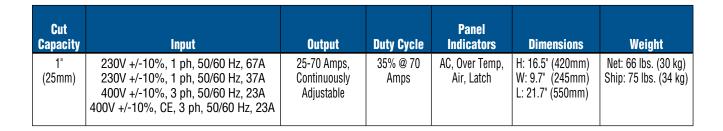
Great for Fabrication or Scrapping A favorite for use in heavy maintenance, fabrication and scrap metal, this machine delivers clean cuts on most 1" (25mm) metals including stainless steel, aluminum, mild steel, copper or brass, with minimum heat input & distortion of metal. It also cuts through rusted, painted or coated surfaces without prior surface preparation.

Reliable, Powerful Power Supply This inverter based power supply operates on standard 230 Volt, single or 3-phase power. (CE model only available at 3 ph.) Simply connect to an air compressor or other air source, and this system is ready to cut.

1Torch® for Excellent Cutting Results

This state-of-the-art torch provides the level of performance and features you would expect from a more expensive torch. Compare these important features:

- Precision-engineered consumable parts are easy to change and require no tools.
- Easy-to-use torch trigger release and ergonomic handle provide comfort during long cutting sessions
- Two modes of operation available standoff cutting or drag cutting
- Latch feature allows the cutting arc to remain active without constantly depressing the torch switch
- Starts without high-frequency so it won't interfere with controls or computers
 - Protective interlock circuitry disables the power supply if torch consumable parts are incorrectly assembled
 - SureLok® electrode eliminates tip wobble found in some blowapart torch designs, resulting in a cleaner arc and longer parts life
 - Light-weight, flexible 20 ft. (6.1m) torch leads
- Full 1-year warranty on repair parts and labor







AirCut™ 15C Parts and Accessories

Accessories	Part No.	
PCH-10 70° Torch / 20' (6.1m) Leads	2-1020	
Cutting Guide Kit	7-8910	
20 ft. (6.1m) Leather Leads Cover	9-1260	9
Shield Cup	9-6003	ADD.
Tip	9-6099	9
Gas Distributor	9-6007	Π
Electrode	9-6006	F)

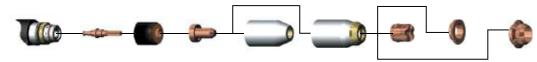
Multi-Purpose Cart Part No. 7-8888

Designed for most portable manual cutting systems such as the CUTMASTER 39, 52, 82 or any other similar sized systems.

This rugged steel cart has easy rolling 8" (203mm) diameter wheels along with 3" (76mm) front mounted casters. This cart also serves as an excellent showroom display stand.



CUTMASTER® 39 / 52 / 82 Parts and Accessories



Current Range	Mode Of Operation	Amps	Electrode	Start Cartridge	Tip	Shield Cup	Shield Cup Body	Drag Shield Cap	Deflector	Gouging Shield Cap
	Drag Tip / Cutting	20A 30A 40A			9-8205 9-8206 9-8207	9-8218 9-8218 9-8218	0.0007		9-8243	
20-40 Amps		20A 30A 40A	9-8215	9-8213	9-8205 9-8206 9-8207		9-8237 9-8237 9-8237		9-8243 9-8243 9-8243	
	Standoff Cutting	40A 40A			9-8208 9-8208	9-8218	9-8237		9-8243	9-8241
	Gouging	Tip A			9-8225		9-8237			
	Drag Tip Cutting	60A			9-8252	9-8218				
50-60	Standoff Cutting	50-55A 60A 50-55A 60A			9-8209 9-8210 9-8209 9-8210	9-8218 9-8218	9-8237 9-8237		9-8243 9-8243	
Amps	Drag Shield Cutting	50-55A 60A	9-8215	9-8213	9-8209 9-8210		9-8237 9-8237	9-8235 9-8235		
	Gouging	Tip B Tip C Tip D			9-8226 9-8227 9-8228		9-8237 9-8237 9-8237			9-8241 9-8241 9-8241
	Standoff Cutting	70A 80A 90A-100A 70A 80A 90A-100A	9-8215	9-8213	9-8231 9-8211 9-8212 9-8231 9-8211 9-8212	9-8218 9-8218 9-8218	9-8237 9-8237 9-8237		9-8243 9-8243 9-8243	
70-100 Amps	Drag Shield Cutting	70A 80A 90A-100A			9-8231 9-8211 9-8212		9-8237 9-8237 9-8237	9-8236 9-8236 9-8236		
	Gouging	Tip B Tip C Tip D			9-8226 9-8227 9-8228		9-8237 9-8237 9-8237			9-8241 9-8241 9-8241
120	Standoff Cutting	120A			9-8253		9-8237		9-8243	
Amps	Drag Shield Cutting	120A	9-8215	9-8213	9-8253		9-8237	9-8258	9-8243	
	Gouging	Tip E			9-8254		9-8237		9-8243	9-8241



CutSkill® C-20A Parts and Accessories

Gulokili G-ZUA Parts	allu AUUUSS
Accessories	Part No.
TORCH	
SL60, 20 ft. (6.1m) Leads	7-5200
Shield Cup	9-8218
Tip (pkg. of 5)	9-8206
Start Cartridge	9-8213
Electrode (pkg. of 5)	9-8215
0-Ring	8-3487
0-Ring	8-3486
Accessories	Part No.
Cutting Guide Kit	7-8910
Single Stage Air Filter	7-7507
20 ft. (6.1m) Leather Leads Cover	9-1260
Single Stage Air Filter	7-7507



Single Stage Air Filter Part No. 7-7507



Cutting Guide Kit Part No. 7-8910



Leather Leads Cover Part No. 9-1260

CutSkill C-35A Parts and Accessories

Accessories Part No.	
7-5200	4
9-8218	had.
9-8207	Page 1
9-8213	
9-8215	Standoff Guide
8-3487	Part No. 9-8251
8-3486	*
Part No.	
7-7501	41
7-7507	Single Stage Air Filter
9-1260	Part No. 7-7507
9-8251	
	Part No. 7-5200 9-8218 9-8207 9-8213 9-8215 8-3487 8-3486 Part No. 7-7501 7-7507 9-1260



Cutting Guide Kit Part No. 7-7501



Leather Leads Cover Part No. 9-1260

CutSkill C-70A Parts and Accessories

Accessories	Part No.
TORCH	
SL100, 20 ft. (6.1m) Leads	7-5202
Shield Cup	9-8218
Tip - 70A (pkg. of 5)	9-8231
Start Cartridge	9-8213
Electrode (pkg. of 5)	9-8215
0-Ring	8-3487
O-Ring	8-3486
Accessories	Part No.
Cutting Guide Kit	7-7501
Single Stage Air Filter	7-7507
20 ft. (6.1m) Leather Leads Cover	9-1260
Standoff Guide	9-8281



Standoff Guide Part No. 9-8281



Single Stage Air Filter Part No. 7-7507



Cutting Guide Kit Part No. 7-7501



Leather Leads Cover Part No. 9-1260



Heavy Duty Outfit Ordering Information		
Model Number	Description	
CS350-510	CutSkill® Heavy/Medium Duty Outfit	
	Model Number	

- RC 350 Series Regulators
- WH 370FC-V Torch handle with built-in flashback arrestors and check valves
- CA 370-V Cutting Attachment
- 2-UM Welding Nozzle
- · Series 1 Cutting Tip
- Toolbox
- 25' x 1/4" RM Grade Hose, Lighter, and Soft-Sided Goggles
- Cuts up to 3/4" (19mm)
- 6" (153mm) with optional tips
- Welds up to 1/8" (3.2mm)
- 3" (76mm) with optional nozzles



heavy buty outfit ordering information		
Part Number	Model Number	Description
0384-2500	CS250-510	CutSkill® Medium Duty Outfit

- RC 250 Series Regulators
- WH 270FC-V Torch handle with built-in flashback arrestors and check valves
- CA 270-V Cutting Attachment
- 0-UM-1 Welding Nozzle
- · Series 3 Cutting Tip
- Toolbox
- 20' x 3/16" RM Grade Hose, Lighter, and Soft-Sided Goggles
- Cuts up to 1/2" (12mm)
- 5" (127mm) with optional tips
- Welds up to 5/64" (1.9mm)
- 1.25" (31mm) with optional nozzles





Heavy Duty Outfit Ordering Information		
Part Number Model Number Description		
0384-2652	FP350-510FC	FirePower® Heavy/Medium Duty Outfit
0384-2650	FP350-300FC	FirePower® Heavy/Medium Duty Outfit
0384-2651	FP350-993FC	FirePower® Heavy/Medium Duty Outfit

- RF 350 Heavy/Medium Duty Regulators
- WH 370FC-FS Torch handle with built-in flashback arrestors and check valves
- · CA 350-FS Cutting Attachment
- 2-UM Welding Nozzle
- Series 1 Cutting Tip
- 25' x 1/4" "R" Grade Hose
- Welds up to 1/8" (3.17 mm)
- 3" (76.2 mm) with optional nozzles
- Cuts up to 3/4" (19 mm)
- 5" (127 mm) with optional tips
- Includes Striker and Goggles



Medium Duty Outfit Ordering Information		
Part Number Model Number		Description
0384-0656	150-510-FSDLX	Medium Duty Outfit

- 150 Series outfit includes a #0 welding nozzle and #0 cutting tip that welds up to 5/64" and cuts to 1/2" Optional tips allow you to weld to 1" and cut to 4"
- Includes built-in Flashback Arrestors
- Torch handle includes built-in reverse flow check valves for added safety and protection against "reverse flow of gases"
- Solid brass and stainless steel construction provide extended trouble-free service
- · Trilingual packaging appeals to broad customer base
- Two year limited warranty
- U.L. listed





Medium Duty Outfit Ordering Information		
Part Number Model Number Description		
0384-2551	FP250-510FC	FirePower® Medium Duty Outfit
0384-2550	FP250-300FC	FirePower® Medium Duty Outfit
0384-2552	FP250-510CS	FirePower® Medium Duty Outfit (clamshell)

- · RF 250 Medium Duty Regulators
- WH 270FC-FS Torch handle with built-in flashback arrestors and check valves
- CA 250-FS Cutting Attachment
- 0-UM-1 Welding Nozzle
- Series 3 Cutting Tip
- 20' x 3/16" "R" Grade Hose
- Welds up to 5/64" (1.98 mm)
- 3" (76.2 mm) with optional nozzles
- Cuts up to 1/2" (12.7 mm)
- 3" (76.2 mm) with optional tips
- Includes Striker and Goggles



Welding & Cutting Tote Part No. 0384-0990

- Cutting attachment
- Cutting tip (#0)
- · Torch handle
- · Universal gas mixer
- Built-in reverse flow check valves and flashback arrestors
- Welding nozzle (#2)
- Oxygen and acetylene regulators
- 12.5' x 3/16" R Grade hose
- · Cylinder wrench with chain
- · Rugged carrying case
- · Spark lighter & goggles
- MC acetylene cylinder: 10 cu. ft.
- R oxygen cylinder: 20 cu. ft.
- · Tip flow chart
- Instruction manual (English/French/Spanish)
- Two year warranty



Gas Equipment & Accessories



Ordering Information		
Part Number Model Number Description		
0387-0463	SMP-31	Propane/MAPP® Self Lighting Torch
0387-0464	SMPK-31	Propane/MAPP® Self Lighting Torch Kit with Propane Tank

CONTENTS:

- Lights with a pull of the trigger
- · Trigger guard protects against accidental light-ups
- Safety trigger lock holds flame for extended periods and prevents accidental lighting
- · Pressure regulated with pre-set flame
- Comfortable "easy grip" handle made of high impact plastic for an ergonomic feel and lasting durability
- Stainless steel burn tube with brass tip
- 180° swivel tip for easy positioning
- Can be used with MAPP or Propane without changing the orifice
- Fits any standard Propane or MAPP cylinder, CGA 600
- U.L. Listed







0387-0464

Ordering Information		
Part Number	Model Number	Description
0387-0465	SMP-41	Propane/MAPP® Self Lighting Swirl Combustion Torch

CONTENTS:

- Pull the trigger to light the torch
- Swirl combustion tip provides maximum heat and reduces brazing time by 30%
- Safety trigger lock holds flame for extended periods and prevents accidental lighting
- Pressure regulated with adjustable flame control valve
- "Easy grip" handle made of high impact plastic for lasting durability
- 180° swivel tip for easy positioning
- Can be used with MAPP or Propane without changing the orifice, tank CGA, 600
- Trigger guard protects against accidental light-ups when not locked
- · U.L. Listed



0387-0465

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



Ordering Information			
Part Number	Model Number	Description	
0387-0470	P-10	Propane Torch	
0387-0471 PK-10		Standard kit includes torch & 14.1 oz. propane tank	

- Solid brass construction provides lasting durability
- Flame control valve allows precise heat adjustment for every application
- U.L. listed





0387-0470

0387-0471

Ordering Information		
Part Number	Model Number	Description
0387-0400	MP-90	Hand torch with regulator and MPT-3 tip

- Ideal for silver soldering copper tubing, bronze brazing steel pipe, or soldering with water in the line
- Swirl combustion tip design provides maximum heat and reduces brazing time by 30%
- 360° swivel tip for easy access
- Produces target heats of 2,400° F (MAPP®); 1,750° F (Propane)
- Rugged, brass regulator
- Easy to clean orifice for maximum, repeat performance
- Fits any standard Propane or MAPP® tank, CGA 600
- Attractive P.O.P. clamshell packaging
- 6 to a master pack/cut case
- · U.L. Listed regulator



0387-0400



Disposable Air-Fuel Tanks

Ordering Information		
Part Number	Model Number	Description
0387-0436	FP-1	14.1 oz. Propane Tank, 8.65 CF, CGA 600
0916-0122	MPT-1	14.1 oz. Map-Pro™ Tank, 8.65 CF, CGA 600







0916-0122

Vers-A-Flame Outfits All Season Torch System

FEATURES:

- Used for burning weeds, removing paint, melting ice, preheating asphalt/tar, removing road markings and preheating large castings for welding
- For use with propane tanks of 20 lbs. or larger
- P.O.L. Excess flow "Safety Valve" shuts off gas flow if hose is accidentally cut or burnt
- Single flint striker included in every outfit
- 10 Foot Hose withstands temperatures from -104° to +140° F
- · Large brass control knob on handle will not freeze in cold conditions
- Two year limited warranty

Ordering Information			
Part Number Model Number Description			
0384-1280	HT-350FP	350,000 BTU Single Unit Display	
0384-1260	HT-500FP	500,000 BTU Single Unit Display	
0384-1290	HT-500FP6	500,000 BTU 6-Pack POP Display	
1412-0141	VF-10-RH	10' Replacement Hose for all Vers-A-Flame Torches, includes P.O.L. valve.	



0384-1260



Powder Spray Torch Outfit

This amazing torch provides an easy and cost effective method to build-up broken parts, resurface worn parts, and build-up cracks in cast iron parts.

BUILD-UP APPLICATIONS: MACHINABLE

Great for farm implement and cast iron build-up. A variety of metal powders are offered for various applications.

Build-up Powder Options:

- FPBP-22 (22 Rockwell)
 Shaft build-up; cast iron repair, cracked exhaust manifolds, easily machined
- FPBP-40
 Bearing surfaces, gear teeth, shaft build-up, machinable

WEAR APPLICATIONS: NON-MACHINABLE

Special hardfacing powder is fused onto part surface with an oxy-acetylene torch for extended part life.

Wear Powder Build-up Options:

- FPWP-60 Cam lobes, sealing surfaces, not machinable
- FPWP-100
 Plow shears, cultivator sweeps, disk blades, augers, harvesters knives, excellent for metal to earth wear
- FPWP-600
 Same as above for high wear applications



Comes with "How To" Video





Powder Spray Torch		
Part Number Model Number Description		
0384-1266	FPSK-260	Complete Powder Spray Torch Kit

Build-Up Powders		
Part Number Model Number Description		
1440-0040	1# Bottle: Used for Shaft build-up; cast iron repair, cracked exhaust manifold:	
1440-0042	FPBP-40	1# Bottle: Used for Bearing surfaces, gear teeth shaft build-up. Machinable.

Build-Up Powders		
Part Number Model Number Description		
1440-0043	FPWP-60	1# Bottle: Used for Cam lobes, sealing surfaces. Not machinable.
1440-0044	FPWP-100	1# Bottle: Used for Plow shears, augers, harvesters knives.
1440-0041	FPWP-600	1# Bottle: Used for Construction Equipment



CutSkill® Victor Style Acetylene 150/250 Series Cutting Tips

Size	Catalog Order Number	Product Reference Number
000	CS3101 000	6700C2438
00	CS3101 00	6700C2439
0	CS3101 0	6700C2440
1	CS3101 1	6700C2441
2	CS3101 2	6700C2442
3	CS3101 3	6700C2443
4	CS3101 4	6700C2444
5	CS3101 5	6700C2445





General Purpose - Hand and Machine cutting. **Medium Preheat**

CutSkill Victor Style Acetylene 350 Series Cutting Tips

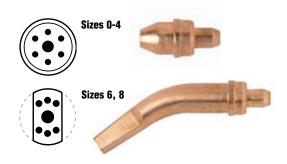
Size	Catalog Order Number	Product Reference Number
000	CS1101 000	6700C2408
00	CS1101 00	6700C2409
0	CS1101 0	6700C2410
1	CS1101 1	6700C2411
2	CS1101 2	6700C2412
3	CS1101 3	6700C2413
4	CS1101 4	6700C2414
5	CS1101 5	6700C2415
6	CS1101 6	6700C2416



General Purpose - Hand and Machine cutting. **Medium Preheat**

CutSkill Victor Style Acetylene Gouging Tips

Size	Catalog Order Number	Product Reference Number
0	CS1108 0	6700C2990
1	CS1108 1	6700C2991
2	CS1108 2	6700C2992
3	CS1108 3	6700C2993
4	CS1108 4	6700C2994
6	CS1118 6 (flat)	6700C2703
8	CS1118 8 (flat)	6700C2704



Special Purpose - Gouging, grooving, rivet washing and removing welds. **Medium Preheat**

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



Cutting Tips – Smith Style

Size	Catalog Order Number	Product Reference Number
0	CSSC50 0	6700C2250
1	CSSC50 1	6700C2251
2	CSSC50 2	6700C2252
3	CSSC50 3	6700C2253
4	CSSC50 4	6700C2254
5	CSSC50 5	6700C2255
6	CSSC50 6	6700C2256
0	CSSC12 0	6700C2190
1	CSSC12 1	6700C2191
2	CSSC12 2	6700C2192
3	CSSC12 3	6700C2193
4	CSSC12 4	6700C2194
5	CSSC12 5	6700C2195
1	CSSC60 1	6700C2311
2	CSSC60 2	6700C2312
3	CSSC60 3	6700C2313
4	CSSC60 4	6700C2314



General Purpose - Scrap cutting and beveling and other heavy preheat applications.

Heavy Preheat



General Purpose - Hand and Machine cutting. **Medium Preheat**



General Purpose - Hand and Machine cutting. **Medium Preheat**



Cutting Tips – Harris Style

Size 00	Catalog Order Number CS6290NX 00	Product Reference Number 6700C1509	
0	CS6290NX 0	6700C1510	(ATT)
1	CS6290NX 1	6700C1511	
2	CS6290NX 2	6700C1512	
3	CS6290NX 3	6700C1513	General Purpose - Hand and Machine cutting.
4	CS6290NX 4	6700C1514	Medium Preheat
5	CS6290NX 5	6700C1515	
00	CS6290 00	6700C1429	
0	CS6290 0	6700C1430	
1	CS6290 1	6700C1431	
2	CS6290 2	6700C1432	General Purpose - Hand and Machine cutting.
3	CS6290 3	6700C1433	Medium Preheat
4	CS6290 4	6700C1434	
5	CS6290 5	6700C1435	
1	CS6290GG 1	6700C1551	
2	CS6290GG 2	6700C1552	
3	CS6290GG 3	6700C1553	

General Purpose - Gouging, grooving, rivet washing and removing welds.

Medium Preheat

Cutting Tips – Airco Style

Size	Catalog Order Number	Product Reference Number	
0	CS144 0	6700C1010	
1	CS144 1	6700C1011	(• • •)
2	CS144 2	6700C1012	(•••)
3	CS144 3	6700C1013	General Purpose - Hand and Machine of
4	CS144 4	6700C1014	Medium Preheat
0	CS164 0	6700C1040	
1	CS164 1	6700C1041	(•••)
2	CS164 2	6700C1042	(•••)
3	CS164 3	6700C1043	General Purpose - Scrap cutting and ot
4	CS164 4	6700C1044	heavy preheat applications. Heavy Preheat



CutSkill® Victor Style 150/250 Series Cutting Tips

Size	Catalog Order Number	Product Reference Number
000	CS3GPN 000	6700C2498
00	CS3GPN 00	6700C2499
0	CS3GPN 0	6700C2500
1	CS3GPN 1	6700C2501
2	CS3GPN 2	6700C2502
3	CS3GPN 3	6700C2503
4	CS3GPN 4	6700C2504
5	CS3GPN 5	6700C2505





General Purpose - Hand and Machine cutting. **Medium Preheat**

CutSkill Victor Style 350 Series Cutting Tips

Size	Catalog Order Number	Product Reference Number
000	CSGPN 000	6700C2468
00	CSGPN 00	6700C2469
0	CSGPN 0	6700C2470
1	CSGPN 1	6700C2471
2	CSGPN 2	6700C2472
3	CSGPN 3	6700C2473
4	CSGPN 4	6700C2474
5	CSGPN 5	6700C2475
6	CSGPN 6	6700C2476





General Purpose - Hand and Machine cutting. **Medium Preheat**



150/250 Series Welding Nozzles for use with WH 270FC-V torch handle (formerly WH26)

Size	Part Number	
00	0387-0019 (Clamshell)	
0	0387-0020 (Clamshell)	
1	0387-0021 (Clamshell)	
2	0387-0022 (Clamshell)	
3	0387-0023 (Clamshell)	
4	0387-0024 (Clamshell)	
5	0323-0131 (Boxed)	
	,	

350 Series Welding Nozzles for use with WH 370FC-V torch handle (formerly WH36)

Size	Part Number	
0	0387-0030 (Clamshell)	
1	0387-0031 (Clamshell)	
2	0387-0032 (Clamshell)	
3	0387-0033 (Clamshell)	
4	0387-0034 (Clamshell)	

150/250 Series Multi-flame Nozzles

Size	Part Number		
4	0387-0071 (Clamshell)	100	
6	0387-0072 (Clamshell)		
8	0387-0073 (Clamshell)		

350 Series Multi-flame Nozzles

Size	Part Number
4	0387-0060 (Clamshell)
6	0387-0061 (Clamshell)
8	0387-0062 (Clamshell)



150 Series Regulators

Part #	Model #	GAS	CGA Range
0781-8960	150-60-540-FB	Oxygen	540 CGA, 4-60 PSIG
0781-8961	150-15-510-FB	Acetylene	510 CGA, 2-15 PSIG
0781-8965	FPR-160AR-200	Acetylene* (Tote)	200 CGA, 2-15 PSIG
0781-8966	FPR-150CR-540	Oxygen* (Tote)	540 CGA, 4-60 PSIG

^{*}Note: The tote regulators are ported from the back of the regulator body.



250 Series Regulators

Part #	Model #	GAS	CGA Range
0781-9111	250-80-540-FB	Oxygen	540 CGA, 4-80 PSIG
0781-9116	250-125-540-FB	Oxygen	540 CGA, 5-125 PSIG
0781-9112	250-15-510-FB	Acetylene	510 CGA, 2-15 PSIG
0781-9800	250-15-300-FB	Acetylene	300 CGA, 2-15 PSIG
0781-9115	250-40-510LP-FB	LP	510 LP CGA, 2-40 PSIG
0781-9850	FPR250-125-580	Inert Gas	580 CGA, 5-125 PSIG
0781-9851	FPR250-200-580	Inert Gas	580 CGA, 10-200 PSIG



350 Series Regulators

Part #	Model #	GAS	CGA Range
0781-9171	350-125-540-FP	Oxygen	CGA 540, 2-125 PSIG
0781-9172	350-15-510-FP	Acetylene	CGA 510. 2-15 PSIG





Flowmeter Regulators

REGULATOR WITH METERING SIGHT-GAUGE (TUBE)

- Maximum inlet pressure 3,000 PSIG, outlet pressure is preset for 80 PSIG.
- Flow range is 10-50/Argon gas, 580 CGA male threaded connection.
- · Model includes 10' gas hose.
- · Easy to read flow tube for accurate adjustments.
- Specifically designed for MIG, TIG and other inert gas welding applications.

Part #	Model #	DESCRIPTION
0781-2733	HRF 1480-580FPH	Preset at 80 PSIG, CGA 580, clamshell, with hose



Flowgauge Regulators

REGULATOR WITH TRADITIONAL DELIVER GAUGE

- Efficient gas shielding for MIG/TIG welding applications.
- · Solid brass and stainless steel construction.
- 50mm gauge size.

Part #	Model #	DESCRIPTION
0781-1102	AF150-580-FB	Argon Flow Gauge, in P.O.P. Box, CGA 580





Regulators/Gauges





1424=0147



1424=0405



1424=0014



1424=0290

Features:

- · Solid brass and stainless steel construction
- Argon, Argon-CO2 capabilities
- Preset @ 18.5 SCF/H
- Use with MIG or TIG applications
- U.L. listed

PRESET FLOW REGULATOR Part # DESCRIPTION

0387-1232 Preset Argon, argon-CO₂ regulator CGA 580

REPLACEMENT GAUGES 1.5" Part # DESCRIPTION

Γαιι π	DESURIF HUN	
1424=0147	30#, boxed, acetylene only	1/8" NPT
1424=0148	100#, boxed, all gases	1/8" NPT
1424=0149	400#, boxed, all gases	1/8" NPT
1424=0150	4000#, boxed, all gases	1/8" NPT
High quality L	exan® crystals	

150 SERIES GAUGES 1.625"

Part #	DESCRIPTION			
1424=0405	30#, boxed, acetylene only	1/8" NPT		
1424=0406	100#, boxed, all gases	1/8" NPT		
1424=0407	400#, boxed, all gases	1/8" NPT		
1424=0408	4000#, boxed, all gases	1/8" NPT		
1424=0409	30#, SCFH Argon CO ₂ , all gases	1/8" NPT		
High quality Lexan crystals				

250 SERIES GAUGES 2"

Part #	DESCRIPTION		
1424=0013	30#, boxed, acetylene only	1/4" NPT	
1424=0014	60#, boxed, all gases	1/4" NPT	
1424=0015	100#, boxed, all gases	1/4" NPT	
1424=0017	400#, boxed, all gases	1/4" NPT	
1424=0019	4000#, boxed, all gases	1/4" NPT	
High quality Lexan crystals			

350 SERIES GAUGES 2.5"

Part #		
1424=0290	30#, in a box, acetylene only	1/4" NPT
1424=0292	200#, in a box, all gases	1/4" NPT
1424=0293	400#, in a box, all gases	1/4" NPT
1424=0294 4000#, in a box, all gases		1/4" NPT
High quality Le	exan crystals	



Cutting Attachments CA250 / CA350

- Stainless steel triangular tube design, provides strength
- Brass construction for strength and durability
- Universal mixer for all fuel gases
- · Double o-ring seal, hand tight connection to torch handle
- U.L. Listed

250 SERIES CUTTING ATTACHMENT

Part #	Model #	Cut Capacity	Gas / Tip Model
0381-0740	CA25-FS	Capacity to 6" with proper tip	Acetylene 3-101 Series Natural Gas &
			Propane 3-GPN Series

350 SERIES CUTTING ATTACHMENT

Part #	Model #	Cut Capacity	Gas / Tip Mode
0381-0744	CA35-FS	Capacity to 8" with proper tip	Acetylene 1-101 Series
			Natural Gas & Propane GPN Series



0381-0744

0381-0740

Welding Torch Handles

- Build-in Flashback Arrestors and reverse flow check valves for added protection
- Standard "B" hose 9/16" x 18 connection
- U. L. Listed

250 SERIES CUTTING ATTACHMENT

Part #	Model #	Description
0382-0143	WH26FC-FS	Torch Handle for 250 Series Cutting Attachment
0382-0136	WH36FC-FS	Torch Handle for 350 Series Cutting Attachment



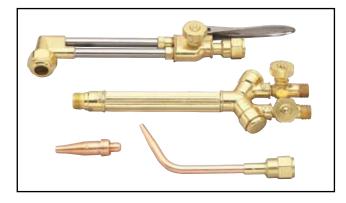


U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



Torch Conversion Kit

This kit contains all you need to make the conversion from other style torches to Firepower style (the world's most popular) torch products. Like all Firepower products, the torch handle features patented built-in Flashback Arrestors and patented built-in reverse flow check valves. The world's safest oxygen and acetylene cutting apparatus. Firepower oxygen and acetylene apparatus feature solid brass and stainless steel construction providing you years of trouble free service.



0384-0904

Kit includes:

- 250 Series Cutting Attachment
- 250 Series Torch Handle
- #1 Cutting Tip
- #1 Welding Tip
- Mixer Nut
- Tip Cleaner
- Patented Built-in Flashback Arrestors
- · Patented Built-in Reverse Flow Check Valves
- U.L. Listed

Straight Cutting Torch ST900FC-FS



- For use with any fuel gas 5 PSIG and above using 350 Series cutting tips
- 90° head, Tri-tube design
- Length 21".
- Cuts from 1/8" to 6"
- U. L. Listed

ST900FC-FS STRAIGHT CUTTING TORCH

Part #	Model #	Description
0381-0751	ST900FC-FS	Straight Cutting Torch 90° head, length 21"
		Uses 350 Series Cutting Tips
		Series 1-101 and Series GPN



Oxy-Acetylene Accessories

- Provide ultimate protection against "Flashback" in your oxy-acetylene system. Comes with "B" 9/16"-18 threads
- Arrestors have high flow capacity
- · Arrestors are 100% tested
- FPKC Kwik connects allow the changing of torch handles without a wrench tight connection

FLASHBACK ARRESTORS Part # Model # DESCRIPTION 0656-0015 FPTA Torch Flashback arrestor set with check valves 0656-0016 FPRA Regulator Flashback arrestor set with check valves 0656-0000 KC-1 Kwik Connect™ Pair Pak (Oxygen and Fuel)







0656-0016

0656-0000

0656-0015

Welding Hose

Premium quality hose produced to stringent specifications.
 Meets or exceeds the requirement of RMA and CGA.

Warning!

"Grade R" welding Hose is recommended for use with Acetylene Gas only.

WELDING HOSE

Model	Size	Grade
1412-0012	3/16" x 12.5 ft. (Dual)	R
1412-0020	3/16" x 25 ft.	R
1412-0021	1/4" x 25 ft.	R
1412-0022	1/4" x 50 ft.	R



1412-0020 1412-0012 1412-0021



U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



Cylinders

AC-MC Part No. 0916-0002

- Type "MC" Acetylene Cylinder, 10 cu. ft. Capacity
- CGA 200 Connection
- Fits TurboTote 0386-1241 Case
- Fits CutSkill Tote 1421-0084
- · DOT, TC Certified

0X-20 Part No. 0916-0003

- Type "R" Oxygen Cylinder, 20 cu. ft. Capacity
- CGA 540 Connection
- Fits TurboTote 0386-1241 Case
- Fits CutSkill Tote 1421-0084
- DOT, TC Certified

NT-40 Part No. 0916-0028

- 40 cu. ft. Nitrogen Cylinder
- CGA 580 Connection
- DOT, TC Certified





0916-0003

Cylinder Wrench

Wrench Part No. 0386-1226

• Fits B & MC Tanks



Replacement Cylinder Tote

FLASHBACK ARRESTORS

Part # DESCRIPTION

1421-0085 Cylinder Tote Only





Firepower Arc Welding Electrodes





Firepower Arc Welding Electrodes

Туре 6011	1 lb. Box	5 lb. Box	10 lb. Box	50 lb. Box
Rod Size	Part #	Part #	Part #	Part #
3/32"	1440-0115	1440-0116	1440-0117	1440-0118
1/8"	1440-0105	1440-0106	1440-0107	1440-0108
5/32"	1440-0095	1440-0096	1440-0097	1440-0098

Туре 6013	1 lb. Box	5 lb. Box	10 lb. Box	50 lb. Box
Rod Size	Part #	Part #	Part #	Part #
3/32"	1440-0145	1440-0146	1440-0147	1440-0148
1/8"	1440-0134	1440-0135	1440-0136	1440-0137
5/32"	1440-0124	1440-0125	1440-0126	1440-0127

туре 7014	1 lb. Box	5 lb. Box	10 lb. Box	50 lb. Box
Rod Size	Part #	Part #	Part #	Part #
3/32"	1440-0205	1440-0206	1440-0207	1440-0208
1/8"	1440-0200	1440-0201	1440-0202	1440-0203
5/32"	1440-0150	1440-0151	1440-0152	1440-0153

туре 7018	1 lb. Box	5 lb. Box	10 lb. Box	50 lb. Box
Rod Size	Part #	Part #	Part #	Part #
3/32"	1440-0195	1440-0196	1440-0197	1440-0198
1/8"	1440-0185	1440-0186	1440-0187	1440-0188
5/32"	1440-0180	1440-0181	1440-0182	1440-0183

Features: Type 6011

- Premium AWS Class E-6011
- Mild steel type
- Deep penetration, welds through rust, scale, oil and dirt
- Use when you are unable to prepared the welding surface
- AC or DC, reverse polarity
- 60,000 PSI tensile strength
- All position electrode

Type 6013

- Premium AWS Class E-6013
- Mild steel type
- Designed for General Purpose
- Excellent for low heat applications
- Best used with clean or prepared welding surface
- · AC or DC, reverse polarity
- 60,000 PSI tensile strength
- · All position electrode

Type 7014

- Premium AWS Class E-7014
- Iron powder type
- Designed for high deposition and high electrode travel speed
- Medium to low penetration
- Best used with clean or prepared welding surface
- · AC or DC, reverse polarity
- 70,000 PSI tensile strength
- All position electrode

Type 7018

- Premium AWS Class E-7018
- Low Hydrogen Type
- Designed to produce X-Ray quality welds
- Medium penetration
- Best used with clean or prepared welding surface
- AC or DC, either polarity
- 70,000 PSI tensile strength
- All position electrode



Firepower Job Packs



FIREPOWER JOB PACKS

Part #	Description	No. Rods
1440-0400	Bronze Flux Coated Brazing Rods, 3/32" diameter x 14" long No brazing flux needed	4
1440-0401	Bronze Bare Brazing Rods, 3/32" diameter x 14" long Requires brazing flux	4
1440-0402	Aluminum Welding Electrodes, 1/8" diameter x 14" long Use with ANY Aluminum Application	3
1440-0403	Cutting Electrodes, 1/8" diameter x 14" long Use your Electric Welder as a cutting Torch	3
1440-0404	Steel Welding Electrodes, 3/32" diameter x 14" long Excellent problem solver type electrode	4
1440-0405	6013 General Purpose Electrodes, 1/16" x 10" long	4
1440-0406	6013 General Purpose Electrodes, 3/32" diameter x 14" long Excellent for use with all types of Arc Welders	4
1440-0407	General Purpose Electrodes, 1/8" diameter x 14" long Excellent for ALL Mild Steel Applications	3
1440-0409	6011 Welding Electrodes, 1/8" diameter x 14" long Excellent for Maintenance & Repair Applications	3
1440-0411	Nickel 55 Welding Electrodes, 1/8" diameter x 14" long For ALL Cast-Iron Welding Applications	4
1440-0423	ENiCl Pure Nickel Electrode 3/32" diameter x 14" long	5
1440-0424	ENiCl Pure Nickel Electrode 1/8" diameter x 14" long	3
1440-0440	Cast Iron (60% Nickel) 3/32" diameter x 14" long	3
1440-0441	6011 Mild Steel 3/32" diameter x 14" long	4



Specialty Electrodes - Hardfacing Electrodes



1440-0080/1440-0081

This high quality, all purpose electrode produces outstanding impact and abrasion resistance. The high deposition rate prolongs surface life of new and worn parts. Ideal for repairing all types of agriculture, construction equipment, auger, buckets, concrete mixers, etc.

Amperage Recommendations:	AMPS	DIA
	110-140	1/8"

HARDFACING ELECTRODES

Part #	Pack Size	Electrode Description
1440-0080	1 lb. tube	1/8" #35 High Abrasion/Hardfacing
1440-0081	5 lbs. Box	1/8" #35 High Abrasion/Hardfacing

Gas Brazing Rods



Flux coated, low fuming brazing rod. Provides all properties for best tensile strength and ductility. Rod fuses well with cast iron, malleable iron, galvanized iron, steel, brass and copper. 65,000 PSI tensile strength.

MANGANESE BRONZE FLUX COATED GAS RODS

Part #	Description
1440-0429	3/32" x 36" 5 lb.
1440-0430	1/8" x 36" 5 lb.



Bare brazing rod low furning highest quality. Balanced zinc and copper alloy. Excellent for brazing fenders, radiators, water tanks and sheet metal. 63,000 PSI tensile strength.

MANGANESE BRONZE BARE GAS RODS

Part #	Description
1440-0427	3/32" x 36" 5 lb.
1440-0428	1/8" x 36" 5 lb.

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



Gas Welding Rods Electrodes



Low carbon steel rod manufactured to the highest quality standards. Copper coating prevents rusting and improves corrosion resistance. A great rod for shop, home, commercial and maintenance repairs. 65,000 PSI tensile strength.

OXYGEN/ACETYLENE MILD STEEL (Copper Coated)

Part #	Description	
1440-0432	1/16" x 36" 10 lb.	
1440-0433	3/32" x 36" 10 lb.	
1440-0442	1∕16" x 18" 5 lb.	



Aluminum rod is excellent for all types of sheet or cast aluminum. This product greatly simplifies the process and requires no flux. Applications include aluminum boats, lawn equipment, outboard motors and castings.

EASY-FLO ALUMINUM BRAZING ROD

Part #	Description
1440-0434	1/8" x 18" 1 lb.



308 Stainless Steel Electrodes



1440-0165



1440-0155/1440-0156

- For welding all 200 and 300 series stainless up to and including 308
- Provides equal or better corrosion resistance than the base metal
- Can be used for fabricating and repairing austenitic manganese steel

308 STAINLESS STEEL

Part #	Pack Size	Electrode Description	
1440-0165	1 lb. Box	3/32" x 14" Electrodes	
1440-0155	1 lb. Box	1/8" x 14" Electrodes	
1440-0156	5 lbs. Box	1/8" x 14" Electrodes	

Brazing & Silverflow Rods



1440-0025



1440-0026

- Lead-free, 0% Silver, 7.1 Phosphorus, balance copper Known as "poor man's" silver
- Free flowing/very fluid, no flux required
- Not for ferrous material, use only with copper base alloys
- Use flame torch

SILVERFLOW BRAZING ALLOY

Part #	Pack Size	Electrode Description
1440-0025	.5 lb. tube	1/16" x 1/8" x 18" long flat rods, 16 pieces per tube

- Low fuming, flux coated bronze, 59%
- For brazing iron based materials (except stainless steel)
- Also used for brazing steel to copper or brass
- Use flame torch

BRONZEFLOW BRAZING ALLOY

Part #	Pack Size	Electrode Description	
1440-0026	.5 lb. tube	3/32" x 18" round rods, 12 pieces per tube	

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



ENIFeCI Nickel 55 Cast Iron Electrodes (Machinable)



NICKEL 55 CAST IRON

Part #	Description
	3/32" Job pack (3 rods) 1/8" 1 lb.

Tensile strength 70,000 PSI. Elongation 12%

The most versatile cast iron electrode. The best solution for repairing cast iron, heavy cast iron sections. The smooth arc characteristics produce strong, sound welds at low amps. Repairs cylinder blocks, exhaust manifold, and machine bases.

Current: AC/DC - DC+ recommended

Amperage Recommendations:	AMPS	DIA.
	70-90	3/32"
	80-120	1/8"

ESt Cast Iron Electrodes (Non-Machinable, Steel Core)



CAST IRON

Part #	Description
1440-0449	1/8" 1 lb.
1440-0443	1/8" 5 lbs.

Tensile strength 62,000 PSI. Elongation 20%

This cast iron electrode is specifically developed for dirty and oil soaked cast iron applications. It is also ideal for heat affected cast iron repairs. This electrode offers the least expensive method of repairing cast iron. Great for repairing castings, transmission housings, etc. Non-Machinable.

Current: AC/DC - DC+ recommended

Amperage Recommendations: 70-125 Amps

ENICI Pure Nickel 99% Cast Iron Electrodes (Machinable)



PURE NICKEL 99% CAST IRON

Part #	Description
1440-0423	3/32" Job pack (5 rods)
1440-0424	1/8" Job pack (3 rods)
1440-0425	1/8" 1 lb.
1440-0374	1/8" 5 lbs.

Tensile strength 55,000 PSI. Elongation 10%

The highest quality nickel electrode available. Welds well in all positions. The high (99%) nickel content has a natural attraction to cast iron giving it superior performance when welding cast iron material. Nickel 99 can be used on cast iron parts that are subject to heating and cooling, such as engine blocks, cylinder heads, exhaust manifolds, etc. Excellent machinability.

Current: AC/DC - DC+ recommended

Amperage Recommendations:	AMPS	DIA.
	70-90	3/32"
	70-110	1/8"



E6024 - Quick Start Electrodes



Mild steel type electrode has a special quick start tip. Stable arc and automatic action that makes it easy to use on thin metals requiring low amperage. Features self-cleaning action that works well in all positions. Tensile Strength 60,000 PSI.

Current: AC/DC

Amperage Recommendations: AMPS DIA.

25-90 1/16"

E6024 - QUICK START

Part #	Description
1440-0412	1/16" 1 lb.
1440-0413	1/16" 5 lbs.

E4043 Aluminum Arc Electrodes



ALUMINUM ARC

Part #	Description
1440-0419	1/8" 1 lb.
1440-0420	1/8" 5 lbs.

This flux coated aluminum electrode is designed to give a weld with strength ductility and corrosion resistance equal to parent metal. Applications include aluminum, sheet metal, plates, castings, tanks and piping. Tensile strength 34,000 PSI. Elongation 18%.

Current: DC+

Amperage Recommendations: AMPS DIA. 70-120 1/8"

Cutting Electrodes



A special heavy duty coating produces 7000° heat at high-arc velocity. Use this electrode for a fast, low-cost means of cutting cast iron and stainless steel without special equipment.

CUTTING

 Part #
 Description

 1440-0426
 1/8" 1 lb.

Current: AC

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714



ER70S-6 MIG Wire Solid



- Premium AWS CLASS ER70S-6
- For general purpose MIG welding
- · Designed to be used on mild steel
- · Best used with clean or prepared welding surface
- Requires a shielding gas
- DC reverse polarity

SOLID WIRE

Part #	Spool Size	Wire Size
1440-0210	2 lbs.	.023"
1440-0211	11 lbs.	.023"
1440-0212	33 lbs.	.023"
1440-0215	2 lbs.	.030"
1440-0216	11 lbs.	.030"
1440-0217	33 lbs.	.030"
1440-0220	2 lbs.	.035"
1440-0221	11 lbs.	.035"
1440-0222	33 lbs.	.035"

E71T-GS Fluxed Cored



- Premium AWS CLASS E 71T-GS
- · Also called "Self-Shielding" or "Gasless"
- · For general purpose MIG welders
- · Designed to be used on mild steel
- · Best used with clean or prepared welding surface
- Requires no shielding gas
- · DC straight polarity

FLUX CORED WIRE

Part #	Spool Size	Wire Size
1440-0230	2 lbs.	.030"
1440-0231	10 lbs.	.030"
1440-0235	2 lbs.	.035"
1440-0236	10 lbs.	.035"



ER 308L MIG Wire Stainless Steel



- Premium AWS CLASS ER308L
- For stainless steel MIG welding
- · Best when used with a clean or prepared welding surface
- Requires a shielding gas
- DC reverse polarity

STAINLESS STEEL

Part #	Spool Size	Wire Size
1440-0245	2 lbs.	.030"

ER5356 MIG Wire Aluminum



- Premium AWS CLASS ER 5356
- · For aluminum MIG welding
- · Best when used with a clean or prepared welding surface
- · Requires a shielding gas
- · DC reverse polarity

ALUMINUM

Part #	Spool Size	Wire Size
1440-0240	1 lb.	.030"
1440-0241	1 lb.	.035"
1440-0445	3 lbs.	.035"

U.S. Customer Care: 800-858-4232 / FAX 800-535-0557 Canada Customer Care: 905-827-4515 / FAX 800-588-1714





A complete line of premium brazing alloys, high silvers, solders and fluxes.

TurboTorch® Viper™ products are ideal for a variety of applications. These premium products deliver all the quality and performance professionals have come to expect from TurboTorch®.







Part Number	Model Number and Description	
Phos-Copper Alloys		
0386-0421	Viper SF-1, 1 lb.	
0386-0493	Viper SF-2, 1 lb.	
0386-0494	Viper SF-5, 1 lb.	
0386-0495	Viper SF-6, 1 lb.	
0386-0491	Viper SS-15, 1 lb.	
	Soldering Alloys	
0386-1379	Viper SX, 1 lb. spool	
0386-1380	Viper SS, 1 lb. spool	
0386-1381	Viper S1, 1 lb. spool	
0386-1382	Viper 95/5, 1 lb. spool	
0386-1383	Viper 50/50, 1 lb. spool	
	High-Silver Alloys	
0386-1384	Viper A30 3 Troy Ounces	
0386-1385	Viper A45 1 Troy Ounce	
0386-1386	Viper A45 3 Troy Ounces	
0386-1387	Viper A45 5 Troy Ounces	
0386-1388	Viper A56T 1 Troy Ounce	
0386-1389	Viper A56T 3 Troy Ounces	
0386-1390	Viper A56T 5 Troy Ounces	
0386-1392	Viper A56T FCR, 9 Sticks	
Fluxes		
0386-1396	Viper Soldering Flux, 4 oz	
0386-1393	Viper Silver Brazing Flux, 6.5 oz	
0386-1394	Viper Aluminum Flux, 4 oz	
Kits		
0386-1395	Viper Aluminum Repair Kit	

For complete Viper product specifications, please reference the Viper brochure. Ask for form number 66-2826 or view online at www.turbotorch.com.



Solders

Lead Free Solder:

Is used for non-electrical applications.
Applications include Plumbing and
Refrigeration systems. Contains No Lead,
Cadmium or Antimony.

Acid Flux Core Solder:

Is used for non-electrical applications. Applications include, Sheet Metal joint and fitting connections, works well on many types of metals (Copper, Brass, Nickel and Galvanized Steel).

Rosin Flux Core Solder:

Used for electrical applications.

Completely non-corrosive and electrically non-conductive.

Lead Free Solder Model	Item	Weight	
1423-1115	Lead Free, 95/5	1/8" x 1 lb.	
Acid Flux Core Solder Model	Item	Weight	
1423-1102 Acid Flux Core, Comm		1/8" x 1 lb.	
1423-1109	Acid Flux Core, 30/70	1/8" x 1/2 lb.	
1423-1108	Acid Flux Core, 40/60	1/8" x 1/4 lb.	
Rosin Flux Core Solder Model	Item	Weight	
1423-1114	Rosin Flux Core, 40/60	1/8" x 1 lb.	
1423-1113	Rosin Flux Core, 30/70	3/32" x 1/2 lb.	
1423-1110	Rosin Flux Core, 40/60	1/16" x 1/4 lb.	
1423-1112	Rosin Flux Core, 40/60	3/32" x 1/4 lb.	

Anti-Spatter Nozzle Shield

- Prevents spatter adhesion on surface reduces clean-up time
- Non-flammable contains no silicones

Model	Item
1440-0296	Anti-Spatter Spray, 16 oz.



Soldering Flux and Paste

Soft Soldering/Tinning Flux that is active between 200°F and 600°F. Very effective on copper and repairing automotive radiators.

Model	Item
1423-1111	2 oz. Soldering Flux
1423-1101	2 oz. Soldering Paste



Welder's Gloves

1423-0051 - Welder's Gloves with Thumb Strap, Russet

- Durable Suede Leather
- Wing Thumb
- · Partially Welted Seams
- Full Sock Lining

- 14" Flared Gauntlet Cuff
- Self Hem
- Size: L



1423-4133 - Premium Welder's Glove

- Sturdy Suede Leather
- Wing Thumb
- Fully Welted Seams
- 100% Cotton Lining
- 14" Flared Gauntlet Cuff
- Self Hem
- Size: L



Welding Protective Blanket and Equipment Cover

1423-1404 - Welding Blanket (38" x 24")

- Use our exclusive fabric to protect personnel and equipment during welding, cutting, grinding and other potentially hazardous operations
- Service range up to 1000° F / 538° C, 20% higher than conventional welding fabrics
- Resistant to abrasion
- Fabric can be draped over equipment or used as a curtain to isolate hazardous operations
- Grommets (36"-Centers) for versatility





Welder's Safety and Chemical Splash Goggles

1423-0019 - Welder's Cup-Type Goggle, 50mm

- Lightweight, hard plastic goggles (50mm)
- Comes with tough polycarbonate lens (Shade No. 5)
- Adjustable elastic headband and nose piece
- Meets/Exceeds ANSI Z87.1 and various International Standards

1423-0017 - Fixed Front, Welders Goggle Soft Frame, 2" x 4.25"

- · Furnished with filter lens (Shade No. 5)
- · Soft vinyl frame fits easily over corrective glasses
- Hooded vents prevent fogging and offers excellent ventilation
- · Adjustable elastic headband
- Meets/Exceeds ANSI Z87.1 and various International Standards

1423-0018 - Lift Front, Welder's Goggle Soft Frame, 2" x 4.25"

- Filter lens frame raises easily for on-the-job versatility (Lift Front Type)
- · Furnished with filter lens (Shade No. 5)
- Soft vinyl frame fits easily over corrective glasses
- Hooded vents prevent fogging and offers excellent ventilation
- · Adjustable elastic headband
- Meets/Exceeds ANSI Z87.1 and various International Standards

1423-0020 - Clear Safety Goggle, with Clear Lens

- · Furnished with tough polycarbonate clear lens
- For protection against flying particles and dust
- Soft vinyl frame fits snugly and can be worn for extended periods with comfort
- Transparent frame allows vision in all directions
- Hooded vents prevent fogging and offers ventilation
- · Adjustable elastic headband
- Meets/Exceeds ANSI Z87.1 and various International Standards

1423-4173 - Chemical Splash Goggle, 4 Vents

- Dust, splash and light impact resistant
- · Indirect ventilation through four screened vents for added protection
- · Clear polycarbonate lens
- · Clear frame allows wide angle vision
- Soft vinyl frame fits snugly and can be worn for extended periods with comfort
- · Adjustable elastic headband
- Meets/Exceeds ANSI Z87.1 and various International Standards













Grinding Shield

1423-4175 - Grinding Shield

- Complete with Clear Visor, 8" x 12" x .040""
- Ratchet quickly adjusts headband to various sizes
- Meets/Exceeds ANSI Z87.1 and various International Standards



Replacement Visors

1441-0015 - Replacement Visor

- Clear visor for face shield, 8" x 12" x .040"
- High grade PETG, for excellent protection against paints & mild chemicals
- · Wide flare for maximum protection
- · Universal hole pattern fits most brand name headgear

Caution: Use PETG visors for protection against lower level impacts only





Safety Glasses

Optimax[™] – 58 mm, Safety Glasses

· Meets or Exceeds ANSI Z87.1 and various International Standards

Model	Lens Shade
1423-4120	Shade 5



Luxur™ – Fashion Safety Glasses, One-piece Lens, Adjustable Templates

Meets or Exceeds ANSI Z87.1 and various International Standards

Model	Lens Shade	
1423-4177	Shade 5	



Regal™ - Safety Glasses, 48 mm

Meets or Exceeds ANSI Z87.1 and various International Standards

Model	Lens Shade
1423-4126	Clear
1423-4127	Dark Green



Symetrix™ – Wrap-a Round Visitor Glasses

· Meets or Exceeds ANSI Z87.1 and various International Standards

Model	Lens Shade
1441-3408	Symetrix, Clear



Thermal Arc Auto Darkening Welding Helmets

Welding Helmet Features

The New Thermal Arc[®] Professional Auto-Darkening Welding Helmet is designed to meet the needs of the professional user. The helmet offers the latest safety features while providing maximum performance and comfort. Features of the helmet can be easily identified by the icon information outlined below.

AUTO DARKENING



Variable Shade This welding helmet is fitted with an auto-darkening filter lens that has variable adjustment from Shade 9 to Shade 13.

IMPACT RATING



High Impact Rating This welding helmet complies to ANSI Z87.1 high impact requirements (high mass and velocity impact).





W4011700 - USA Helmet

W4011800 - Canada Helmet



2 Year Warranty This product is manufactured to stringent Thermal Arc quality standards and is covered by a conditional Two Year warranty.

Auto-Darkening Filter Lens features

- Variable shade from 9–13
- Battery powered with solar assist for extended battery life
- 1/20,000 second reaction time
- Fully adjustable sensitivity and delay controls
- · Low battery indicator







W4012000 - Black Helmet

ACCESSORIES

Part No.	Description	Part No.	Description	Part No.	Description
454332	Helmet Shell, USA	454320	Auto-Darkening Filter Lens	454302TA	Product Bag – Welding Helmet
454333	Helmet Shell, Canada	454299	Rear Cover Lens	454321	Magnifying Lens – 1.00
454334	Helmet Shell, Claret	454330	Cover Lens Holder Button	454322	Magnifying Lens – 1.50
454335	Helmet Shell, Black	454300	Harness Assembly Complete	454323	Magnifying Lens – 2.00
454298TA	Front Cover Lens	454301	Sweat Band	454331	Battery - Type CR2032



Eclipse Welding Helmets

- Extended head, face, neck and ear coverage protects against sparks and slag - preventing burns and harmful Ultra-violet and Infra-red rays
- Channels smoke and fumes away from the welder making breathing easier and unique shape that allows room for respirators
- Built-in magnifier holder is adjustable to multiple positions
- Adaptable to most Auto-darkening Filters
- Helmet includes Shade 10 filter plate and adjustable locking headgear with sweatband
- Meets or Exceeds: ANSI Z87-1 & CE Standards

Model	Item
1441-0024	Fixed Front Helmet, 2" x 4.25"
1441-0026	Fixed Front Helmet, 5.25" x 4.5"
1441-0025	Lift Front Helmet, 2" x 4.25"
1441-0059	Auto Darkening Helmet, 2" x 4.25" Fixed Shade #10, 4.9" View
1423-4110*	Headgear for Eclipse™ Helmet







1441-0026



1441-0025



1441-0059

^{*}not shown



Eclipse Welding Helmets

- Streamlined, compact design allows welders to get into tight places
- Meets or Exceeds: ANSI Z87-1, CE and various International Standards



Model	Item
1441-0042	Adjustable Ratchet Headgear
1441-0023	Fixed Front Helmet, 2" x 4.25" Economy, Black
1441-0038	Fixed Front Helmet, 4.5" x 5.25" Economy, Black
1441-0004	Lift/Fixed Front Combo Helmet, 4.5" x 5.25", Black
1423-4100	Hand Welding Shield, 2" x 4.25"







1441-0038



1441-0004





Glass Filter Plates

- Hardened glass is heat-treated for strength.
- Meets or Exceeds: ANSI Z87-1, all current applicable Federal Specs., CSA Z94.3,CE and various International Standards.

Model	Shade		
Filter Plate 2" x 4	J.25"		
1423-4124	Shade #5		
1441-0047	Shade #10		
Filter Plate 4.5" >	, 5. 25"	2" x 4-1/4"	4-1/2" x 5-1/4"
Tiller Flate 4.5 /	X 0.20		
1441-0049	Shade #10		

Polycarbonate Cover and Safety Plates

- Polycarbonate clear safety or cover plates, as components of welding goggles or helmets exceed the high velocity and high impact requirements of the ANSI Z87.1-1989 and Canadian CSA Z94.3 Standards
- Functions as either cover or safety plate
- · Eliminates the accidental use of a cover plate in instances where a safety plate is necessary





Hose Repair Dealer Kit

- Streamlined, compact design allows welders to get into tight places
- Meets or Exceeds: ANSI Z87-1, CE and various International Standards

Part #	Model #	DESCRIPTION
1420-0296	DK-FP	Complete Dealer Kit*

^{*}Includes: "A" and "B" size hose fitting with KI2B vise-grip type crimping tool. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" and 3/16" I.D. hose.



Crimper™, Heavy Duty Lug/Splicer Crimping Tool

- Durable spring loaded mechanism holds Terminal/Lug in place
- Delivers 1400-1800 lbs. pull-out resistance (Terminal To Cable)

Model #	Jaw Opening	Cable Capacity
1423-1209	Up to 1"	6-4/0





Welper® MIG Pliers (8 tools in one!)

- Designed for hammering, wire cutting, insulator bushing removal and installation and drawing out wire
- Perfect for removal and installation of contact tips and nozzles

Model	Item	
1423-1428	Welper®. MIG Pliers	



Lightnin' Bug® Torch Lighter

- Tested to 300,000 Strikes!
- · Easy and accurate ignition insured by multi-spark discharge
- · Zinc Plated body resists rust and corrosion

Model	Item
1423-1423	Lightnin' Bug®, Torch Lighter



Single Flint, Triple Flint and Flint Replacements

- Tested to 300,000 Strikes!
- · Easy and accurate ignition insured by multi-spark discharge
- · Zinc Plated body resists rust and corrosion

Model	Item	
Single Flint		
1423-0026	Single Flint Spark Lighter	
1423-0032	Flints for Single Flint Spark Lighter 1 Holder/pk. (5 pcs)	
Triple Flint		
1423-0050	Triple Flint Spark Lighter	
1423-0052	Flints for Triple Flint Spark Lighter 2 per Pack	









1423-0032

1423-0050



Tip Cleaners

Standard

Set of 13 cleaners with file. Sizes #6 through #26 for cleaning Drill Size 77-49.

King Size

Set of 13 cleaners Extra Long with file. Sizes #6 through #26 for cleaning Drill Size 77-49.

Model	Item
1423-0016	Standard Tip Cleaner
0387-0487	King Size Tip Cleaner



			Cleans Hole	
Gage	Wire Dia.	Ridge Dia.	Diameter Inch	Drill Size
6	0.014	0.016	.018020	77-76
7	0.018	0.020	.021022	75-74
8	0.021	0.023	.024026	73-71
10	0.024	0.026	.028031	70-68
12	0.028	0.030	.032035	67-65
14	0.032	0.034	.036038	64-62
15	0.035	0.038	.039040	61-60
16	0.037	0.040	.041042	59-58
17	0.039	0.042	.043046	57
18	0.042	0.044	.046051	56
22	0.048	0.050	.052055	55-54
24	0.055	0.057	.060064	53-52
26	0.062	0.065	.067073	51-49

Tip Drill Cleaner Kit (12 piece)

- · Cleans and Trues most Standard Orifices
- Contains most commonly used 12 drills (#57-74) in assorted sizes
- · Complete with Built-in Chuck and Pocket Clip

Model	Item
1423-1408	Tip Drill Kit, 12 pc.
	Drill sizes: #52-74





Soapstone

Model	Item
1423-0095	Flat Soapstone, 6 pcs./pk
1423-0094	Round Soapstone, 6 pcs./pk



Soapstone Holder

Model	Item
1423-0097	Flat Soapstone Holder
1423-0096	Round Soapstone Holder



Handyguard™, Welding Rod Storage Tube

Weld rod storage tubes provide great storage for all your welding electrodes, rods and filler metals. Chloride-free and features a threaded cap with long lasting neoprene seal to keep electrodes airtight-preventing them from being contaminated with atmospheric moisture.

• Holds up to 10 lbs. of 12" or 14" Electrodes

Model	Item
1421-0062	Handy Guard™, Weld Rod Storage Tube



Chipping Hammer

- Hammer heads are hardened to precisely controlled temperatures for durability and strength
- · Wide-blade design removes slag faster and adds to life of the tool
- Holds up to 10 lbs. of 12" or 14" Electrodes

Model	Item	Length	Weight
1423-0086	Cone and Chisel	12"	14 oz.

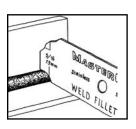


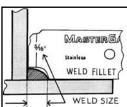
MasterGage™ Fillet Weld Gage



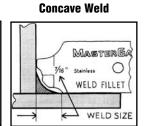
- · High quality stainless steel (SUS 304) blades to resist rust for longer life
- Permits quick and accurate measuring of most popular weld fillet sizes in inches and metric: 1/8"-1" (3.2mm - 25.4mm)
- Set of seven blades come in a handy, vinyl pocket case with snap lock

Model	Item
1423-1464	MasterGage [™] , Fillet Weld Gage





Convex Weld





Fillet Weld Gage by MasterGage™

Rap-Around Measuring Tape (For Pipe Measurement)

- · An inexpensive tool for marking straight lines around pipe, or for use as a straight edge
- Double-ruled: It's never upside down
- Printed in scale inches, pitch chart, tangent chart and other useful markings
- · Packaged in a clear plastic tube for easy identification and protection between jobs

Model	Item
1423-1405	Rap-Around Tape, 4" x 72"



4-Way Pick Set

- Knurled 5" aluminum handle
- Four tempered steel picks 3" long screw into handle

Model	Item
1423-1435	4-Way Pick Set





Locking Pliers/Clamps

Model	Item	
1423-1432	Locking Pliers, 11"	



Steel Ground Clamps

- · Large contact area assures positive grounding
- Zinc plated
- · Large hex screw cable connection assures safe cable connection every time
- Pure copper braided shunts on 1443-0027-allows both jaws to carry welding current

Model	Amperage Capacity	Jaw Opening	Cable Capacity	Length
1443-0025	200	Up to 1"	1/0	6"
1443-0026	300	Up to 2"	2-1	8"
1443-0027	500	Up to 2"	1/0-4/0	10"



1443-0026









Cable Lugs

1443-0002 1443-0003 1443-0004

4

1443-0005

Model	Cable Capacity	Amperage	Stud Hole	ID of Socket	Pack
1443-0002	6-8	75	21/64"	10/32"	2 pc./pk.
1443-0003	4-6	100	21/64"	11/32"	2 pc./pk.
1443-0004	6-2	150	17/32"	1/2"	2 pc./pk.
1443-0005	1-2/0	200	17/32"	35/64"	2 pc./pk.



Mag Tool™ Multi-Purpose Magnetic Holders

Mag Tool™ will hold both sheet and tube at angles of 45°, 90° and 135°

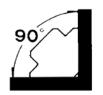
 Model
 1423-1425
 1423-1426

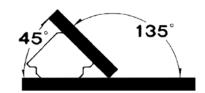
 Size
 Medium
 Large

 Dimensions
 4.7" x 3.4" x 0.56"
 6.3" x 4" x 0.63"

Magnet: Anisotropic Ferrite

** In contact with ferrous objects of adequate thickness and smooth surface finish













1423-1426

C-Clamps / Malleable Iron

- Steel spindles are copper plated for splatter protection
- · Swivel pads adjust freely to bear evenly on clamped parts
- Lacquered Finish

Model	Size	Throat Capacity	Depth	Spindle Diameter
1423-1419	4"	0"-4"	2-1/4"	7/16"





Scratch Brushes

Curved Long Handle Brushes

Model:	Wire	No. of Rows	Trim Length
1423-0087	Carbon Steel	3 x 19	1.1875"
1423-0082	Stainless Steel	3 x 19	1.1875"



Shoe Handle Brushes

Model:	Wire	No. of Rows	Trim Length
1423-0083	Carbon Steel	4 x 16	1.1875"
1423-1442	Stainless Steel	4 x 16	1.1875"



Welders Toothbrush Style

Model:	Wire	No. of Rows	Trim Length
1423-0081	Stainless Steel Tinning	3 x 7	1/2"
1423-0084	Brass	3 x 7	1/2"
1423-1400	Brass	2 x 9	1/2"



Flux Brush

Model	Trim Width	Trim Length	Total Length	Pack
1423-0093	1/2"	3/4"	5 75"	3 nc /Pk



Parts Cleaning Brush

Model	Handle	Length	
1423-1402	Plastic	10.5"	





Power Brushes: End Brushes

Firepower small diameter wire brushes are designed for use in restricted or hard-to-reach areas. They are excellent for deburring, blending and cleaning of surfaces. Small diameter brushes are especially designed for use on portable air and electric tools. Applications include deburring, blending, removal of rust, cleaning. End brushes are great for cylinder heads, pistons and valve ports, rubber and plastic flash removal, removal of rust, paint scale, tool polishing, and weld cleaning.







1423-2104



1423-2105

Wheel Diameter	Туре	Wire Size	Max. RPM
1/4" Shank	Carbon Steel	Wire	
1.5"	Coarse	.014"	4,500
2"	Coarse	.014"	4,500
3"	Coarse	.014"	4,500
3"	Fine	.008"	4,500
1/4" Shank	Carbon Steel	Wire	
3/4"	Coarse	.014"	4,500
1"	Coarse	.014"	4,500
1/4" Shank	Carbon Steel	Wire	
3/4"	_	.020"	20,000
1.5"	_	.020"	20,000
	Diameter 1/4" Shank 1.5" 2" 3" 3" 1/4" Shank 3/4" 1" 1/4" Shank 3/4"	Diameter Type 1/4" Shank Carbon Steel 1.5" Coarse 2" Coarse 3" Coarse 3" Fine 1/4" Shank Carbon Steel 1" Coarse 1/4" Shank Carbon Steel 3/4" -	Diameter Type Size 1/4" Shank Carbon Steel Wire 1.5" Coarse .014" 2" Coarse .014" 3" Coarse .014" 3" Fine .008" 1/4" Shank Carbon Steel Wire 3/4" Coarse .014" 1/4" Shank Carbon Steel Wire 3/4" - .020"

Safety First - Always Grind Safely

Warning! Failure to Observe Safety Procedures May Result in Serious Injury:

Complies with Safety Standards of the Industrial Division of the American Brush Manufactures Association and the American National Standards Institute ANSI B165.1-1985 "Safety Requirements for the Design, Care and Use of Power Driven Brushing Tools".

Always Wear Protective Equipment:

Impact resistant Safety Glasses or Goggles, Full Face Shield, Safety shoes, Arm Guards, Leather Gloves, Apron and other appropriate protective clothing must be worn by all operators and other employees working in the area of power brush operations. Always wear a respirator to avoid inhalation of dust particles.

Machine Guards Must Be Used:

Power brushes should be used only on machines that are equipped with Safety Guards, and they must be in place at all times.

Check Specifications On Mounting Brushes:

Check appropriate RPM before mounting any brush on a power tool. Arbor hole and spindle diameter should be a free fit. Spindle length should be sufficient to accept a full-nut mounting. Direction of spindle nut thread should be opposite to the direction of the spindle rotation so that the nut will tighten as the spindle revolves.

Always Inspect Before Use:

Carefully check all brushes in the original carton. Do Not Use if they are rusty or damaged. Brushes should be stored in the original cartons and should not be exposed to high humidity or other detrimental environmental conditions.

Always Observe Speed Limitations:

Observe all speed restrictions indicated on the brushes, containers, labels, or printed in pertinent literature. For reasons of safety, the "Max. RPM" Must Not be exceeded under any circumstances.



Power Brushes: Wire Cup Type

Firepower wire cup brushes are designed for use on portable power tools. Made with high quality tempered wire, Firepower brushes provide fast cutting action for removal of light encrustation of scale, rust, paint or weld splatter. The relative high flexibility of fire power wire cup brushes allows cleaning on irregular surfaces as well as flat surfaces.

Cup Brushes with 1/4" Stem: Small diameter cup brushes are designed for use in restricted or hard to reach areas. They are excellent for carbon cleaning, polishing, removal of scale, slag, rust and paint.

Cup Brushes Crimped Wire: Heavy-duty cup brushes with arbor adapters and threads to fit most grinders.

Cup Brushes Stainless Steel Knotted Wire: Heavy-duty cup brushes with arbor adapters and threads for most grinders. Stainless steel wire brushes are used to reduce discoloration and corrosion on stainless and aluminum alloys. Stainless steel wire brushes are highly corrosion resistant and should be used where contamination or after rust is a problem.

Model	Cup Diameter	Wire Size	Max. RPM	
Crimp Type: (Carbon Steel Wire, 1	/4" Shank		
1423-2106	1.5"	.014"	4,500	
1423-2107	2.5"	.014"	4,500	
1423-2108	2.5"	.008" (Fine)	4,500	
Crimp Type: (e: Carbon Steel Wire, 5/8" - 11 NC Threaded Arbor			
1423-2109	3"	.014"	12,500	
1423-3158	4"	.014"	8,500	
Knot Type: C	arbon Steel Wire, 3/	8" - 24 NF Threaded A	Arbor	
1423-3159	3"	.020"	12,500	
Knot Type: C	arbon Steel Wire, 5/	8" - 11 NC Threaded A	Arbor	
1423-2110	3"	.020"	12,500	
1423-2115	4"	.020"	8,500	
1423-2116	6"	.020"	6,500	



1423-2106





1423-3159



1423-2110



Wire Wheel Brushes: Crimped and Knot Style

Firepower knot-style wire wheel brushes are designed for tough jobs. Each individual knot contains an equal number of top quality high carbon tempered wires, which gives the wheel an exact balance and long-life. Firepower brushes can be furnished in either standard twist in carbon and stainless steel. Firepower brushes are well-suited for use in the welding and fabricating industries. They are used for surface preparation prior to welding and brazing and for removing weld scale and spatter after the welding operation.







1423-2121

1423-2111

1423-2113

Model	Wheel Diameter / Width	Wire Size	Arbor Hole	Maximum RPM
Crimped Type:	Carbon Steel Wire			
1423-2327	4" dia. x 1/2" wide	.014"	5/8"-11 NC	8,000
1423-2121	6" dia. x 1/2" wide	.014""	5/8"-1/2"	6,000
1423-2122	6" dia. x 1" wide	.014"	5/8"-1/2"	6,000
1423-2123	8" dia. x 1.25" wide	.014"	5/8"-1/2"	4,500
Stringer Bead (Carbon and Stainless	Steel Wire		
1423-2111	4" dia.	.020"	5/8"-11 NC	12,500
Standard Twist: Carbon and Stainless Steel Wire				
1423-2113	4" dia.	.020"	5/8"-11 NC	12,500
1423-2120	6" dia.	.020"	5/8"-1/2"	9,000

Arbor Reducing Adaptors:

For both cup and wheel brushes - the fixed 5/8"-11 arbor hole of each brush can be adapted to M10 x 1.25, M10 x 1.50 and 3/8-24 NF by using arbor reducing adapter.

1423-2124 Arbor Reducing Adaptor, 5/8"-11 to M10 x 1.25 1423-2125 Arbor Reducing Adaptor, 5/8"-11 to M10 x 1.5

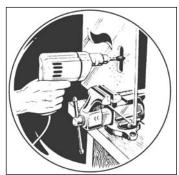


Steel Rotary Files

- Rotary files offer perfect solutions for the welding jobs: Trimming welds, grinding smooth fillets & preparation for welds
- Repairs can be easily done because of a variety of shapes and sizes available
- All rotary files have a standard shank of 1/4" (6mm)
- Note: use lower speeds when cutting harder ferrous materials and higher speeds for softer non-ferrous materials

Model	Size	Shape	
1423-2224	1/2" x 7/8"	Cylindrical	
1423-2226	1/2" x 1/2"	Ball	







Steel Rotary Rasps

Model	Size	Shape
1423-3177	1/2" x 7/8"	Cylindrical

Caution! - Rotary files are for use on electrical power drills only. They are not recommended for use on pneumatic or hydraulic tools.





Abrasive

Specification Example: A-36-S-B-F

Abrasive	Grit	Grade	Bond Type	Reinforcement	
Α	36	S	В	F	

Legend: Select one from each column.				
Abrasive:	Grits	Grades	Bond Types	Reinforcement
A = Aluminum Oxide	Coarse:	Soft:	B = Resinoid	1 FG = Inter-woven
A = Aluminum Oxide	#16-24	H, I, J, K	V = Vitrified	2 FG = Double Reinforced
C = Silicon Carbide	Medium:	Medium:		
	#30-60	L, M, N, O, P		
	Fine:	Hard:		
	#80-220	Q, R, S, T		

Safety First - Always Grind Safely

Safety: Always DO the following:

- 1. Always handle and store abrasives in a careful manner.
- **2. Always** visually inspect all abrasives before mounting for possible damage in transit, storage, or prior use.
- **3. Always** "Ring Test" the wheel by tapping gently with a light metallic implement such as the handle of a screwdriver for light wheels, or Wooden or Plastic Mallet for heavier wheels. An undamaged wheel will give a clear tone.
- 4. Always make sure the operating speed established for the equipment does not exceed the wheel speed.
- Always check mounting flanges for equal and correct diameter.
- Always use mounting blotters when supplied with abrasives.
- Always keep work rest properly adjusted within 1/8" (3mm) of wheel face.
- **8. Always** direct grinding sparks downward and away from the face and body.
- 9. Always wear protective equipment such as, impact resistant safety glasses or goggles, full face shield, safety shoes, arm guards, leather gloves and apron must be used for operator protection for all grinding operations. Always wear a respirator to avoid inhalation of dust particles.
- Always use a safety guard covering at least one-half of the wheel diameter.
- 11. Always allow newly mounted wheels to run at operating speed, with the guard in place, for at least one minute before starting to grind.
- **12. Always** observe all safety recommendations supplied by the Equipment Manufacturer.

DO NOT attempt the following:

- 1. Do Not use a wheel that has been dropped.
- 2. Do Not use wheels that have been soaked in water
- Do Not use wheels without guards for grinding or cutoff work.
- Do Not force a wheel onto the spindle or alter the hole of size the wheel.
- **5. Do Not** use a wheel that fits the arbor too loosely.
- **6. Do Not** exceed maximum operation speed established for the wheel.
- 7. Do Not use dirty, nicked, warped or sprung mounting flanges.
- 8. Do Not tighten the mounting nut excessively.
- **9. Do Not** grind on the side of the wheel unless the wheel is specifically designed for that purpose.
- **10. Do Not** start machine unless the machine guard is in place.
- 11. Do Not jam work into the wheel. Let the wheel do the work.
- 12. Do Not apply excessive pressure.
- **13. Do Not** stand directly in front of a grinding wheel whenever a grinder is started.
- 14. Do Not grind near flammable material.
- **15. Do Not** grind or cut material for which the wheel is not designed.
- **16. Do Not** flat grind. Minimum grinding angle is 15°.
- **17. Do Not** use relieved or recessed flanges with threaded hole cup wheels, cone or plugs.
- 18. Never use a wheel or a disc that has been dropped, chipped, mishandled or appears defective.



Depressed Center Grinding Wheels, Type 27

Firepower depressed center wheels are fully reinforced with resin bonded aluminum oxide to ensure safety at high speed and to increase bonding and impact strength. Designed for use on air or electric powered right angle or vertical shaft grinders. Available with or without hubs.

Model	Size	Max. RPM	Grade
Without Hub	s:		
1423-3151	4" x 1/8" x 5/8"	13,700	A36S
1423-2186	4" x 1/8" x 5/8" (5 pc./Pk)	13,700	A36S
1423-3152	4" x 1/4" x 5/8"	13,700	A24R
1423-2187	4" x 1/4" x 5/8" (5 pc./Pk)	13,700	A24R
1423-3186	4.5" x .045" x 7/8"	13,300	A36S
1423-3199	4.5" x 1/8" x 7/8"	13,300	A36S
1423-3153	4.5" x 1/4" x 7/8"	13,300	A36S
1423-2188	4.5" x 1/4" x 7/8" (5 pc./Pk)	13,300	A24R
1423-2189	5" x 1/4" x 7/8"	12,000	A24R
1423-2191	7" x 1/4" x 7/8"	8,500	A24R
With Hubs:			
1423-3201	4.5" x 1/8" x 5/8"-11 NC	13,300	A24R
1423-2232	4.5" x 1/4" x 5/8"-11 NC	13,300	A24R
1423-3203	7" x 1/8" x 5/8"-11 NC	8,500	A24S
1423-2190	7" x 1/4" x 5/8"-11 NC	8,500	A24S
1423-2192	9" x 1/4" x 5/8"-11 NC	6,500	A24S





Techniques/Tips for proper Firepower Grinding Wheels:

- 1. Use this method to achieve the desired aggressiveness of stock removal and quality finish - for fast material removal increase the grinding angle between the wheel and the workpiece. For blending and finishing decrease the grinding angle and apply light pressure in a fluid motion.
- For maximum efficiency, Type 27 Depressed Center Wheels should be used with a approach angle of 30°-35° to the workpiece.
- 3. Material being cut or ground should always be clamped or securely positioned, especially in cutting-off operations.
- 4. Proper machine speed is essential for maximum efficiency. Low speed causes "Jumping" of the disc, and can cause the circumference to wear unevenly.
- 5. Only flat cut-off wheels can be brushed, not depressed center wheels. Only 7/8" arbors can be made to 5/8"-11.



Cut-Off Abrasive Wheels, Type 1 (For Metal)

Firepower Double Reinforced Cut-Off Wheels are designed for heavy duty cut-off jobs using circular saws, chop-saws and straight grinding machines. They ensure optimum effectiveness for dry applications on a broad range of ferrous and non-ferrous metals, soft ceramics, masonry materials, reinforced plastic and fiber glass. Most Firepower cut-off wheels are double reinforced with two layers of fiber glass.

Model	Size	Max. RPM	Grade
Type 1, Abrasi	ve Cut-Off Wheels:		
1423-3149	3" x 1/32" x 3/8"	25,000	A60T2FG
1423-3181	3" x 1/32" x 3/8" (5 pc./Pk)	25,000	A60T2FG
1423-3142	3" x 1/16" x 1/4"	25,000	A46T2FG
1423-3143	3" x 1/16" x 3/8"	25,000	A46T2FG
1423-3155	3" x 1/16" x 3/8" (5 pc./Pk)	25,000	A46T2FG
1423-2178	3" x 1/16" x 3/8" (10 pc./Pk)	25,000	A46T2FG
1423-3208	3" x 1/8" x 1/4"	25,000	A46T2FG
1423-3144	3" x 1/8" x 3/8"	25,000	A46T2FG
1423-2180	3" x 1/8" x 3/8" (5 pc./Pk)	25,000	A46T2FG
1423-3150	4" x 1/32" x 3/8"	18,000	A60T2FG
1423-3182	4" x 1/32" x 3/8" (5 pc./Pk)	18,000	A60T2FG
1423-3145	4" x 1/16" x 3/8"	18,000	A46T2FG
1423-3147	4" x 1/16" x 5/8"	18,000	A46T2FG
1423-3157	4" x 1/16" x 5/8" (5 pc./Pk)	18,000	A46T2FG
1423-3146	4" x 1/8" x 3/8"	18,000	A46T2FG
1423-3148	4.5" x 1/16" x 7/8"	13,300	A46T2FG
1423-3184	4.5" x 1/16" x 7/8" (5 pc./Pk)	13,300	A46T2FG
1423-3185	4.5" x 1/8" x 7/8"	13,300	A46T2FG
1423-3188	6" x .045" x 7/8"	10,200	A60T2FG
1423-3211	6" x 1/16" x 5/8"	10,200	A60T2FG



Use Tips for Firepower Cut-Off Wheels:

- 1. When using cut-off wheels, a soft pressure should be used for initial contact with the workpiece cutting should be done with even constant pressure.
- 2. For stationary cut-off machinery, it is important to have good stability and steadiness to prevent vibration. Also, the motor should be powerful enough to keep the cutting time as short as possible to prevent burning or discoloring the material
- 3. Material being cut or ground should always be clamped or securely positioned, especially in cutting-off operations.
- 4. Proper machine speed is essential for maximum efficiency. Low speed causes "Jumping" of the disc, and can cause the circumference to wear unevenly.
- 5. Flat cut-off wheels can be brushed, if required.



Cut-Off and Chop-Saw Abrasive Wheels, Type 1 (for metal)

- Single reinforced cut-off wheels are recommended for stationary Chop-Saws only
- 7" (175mm) diameter wheels are equipped with Diamond Center hole for easymounting on portable circular saws

Model	Size	Max. RPM	Grade
Large - Type 1,	, Abrasive Cut-Off Wheels:	_	
1423-2213	7" x 1/8" x 5/8" Diamond Hole	8,500	A36S 2FG
For Stationary	Chop-Saws Only:		
1423-2305	10" x 1/8" x 5/8"	6,100	A36S 2FG
1423-3189	10" x 3/32" x 1"	6,100	A46S 1FG
1423-2197	12" x 3/32" x 1"	5,100	A46S 1FG
1423-2198	14" x 3/32" x 1"	4,400	A46S 1FG
For Portable H	ligh Speed Chop-Saws:		
1423-3191	12" x 5/32" x 1"	6,300	A36S 2.5FG
1423-3193	14" x 5/32" x 1"	5,400	A36S 2.5FG



Firepower Cut-Off Wheel Safety and Cutting Procedures:

- 1. Cut-off wheels should never be stored on edges. They should be laid on a solid flat surface and away from excessive heat to prevent warpage.
- 2. Machines must have adequate power transmission and capacity, spindle speeds and proper guarding of the wheel. It is best to have extra power to insure good cutting efficiency. Check the speed of the machine spindle against the maximum speed specified for the wheel by the manufacturer. The maximum specified speed for the wheel should never be exceeded.
- 3. Flanges should be clean, straight and of the same diameter, so the wheel can turn true. For wheel diameters above 10" (250mm) it is highly recommended that the flange be a least 1/3 the diameter of the wheel.
- 4. The bore size of the wheel is so constructed that the wheel should fit freely on the machine spindle without any slack. Never attempt to force a wheel on the spindle! Always use blotters, when supplied with the wheel. Be sure the flanges are tightened securely but not too tightly to avoid springing the flanges and change the pressure area.

- 5. Be sure work-piece is securely held down, including both sides of the cut, if practical. Cut-off wheels withstand a great deal of radial stress but not any side stress. Even reinforced wheels are not completely unbreakable. Side pressure must be avoided to insure straight cuts and avoid possible wheel breakage. The wheel must be brought into contact with the work without "Bumping" or impact. The wheel should cut freely without forcing and the speed of the wheel should not be reduced by the cutting operation.
- 6. Abrasive cutting generates a great deal of localized heat, which causes rapid expansion of the piece being cut. Wheels operated at speeds significantly below efficient speed or if fed through the cut to slowly will generate excessive heat. Result: rapid wheel wear, fraying around the edge of reinforced wheels and wheel breakage. Always use at the "efficient speed" as specified for the wheel by the manufacturer.



Mandrel Set

- · Made of high strength alloy steel
- Ideal for small diameter cut-off wheels with a thickness of 1/32" to 1/4"



Model No.	Size
1423-2185	For 1/4" & 3/8" Arbors, with 1/4" Shank

Mounting Points

- Offer maximum performance for grinding of ferrous and non-ferrous metals. For use with horizontal or straight shaft, die and pencil grinders on jobs where larger cones and plugs won't fit
- Excellent for medium to heavy duty applications in metal fabrication, foundries, steel mills. Used for grinding ferrous and non-ferrous metals
- Ideal for rapid stock removal on high alloy steel, castings and special steel

	Type &	Size	
Model	Shape	(Dia. x Length x Shank)	Max. RPM
1423-2202	A11	7/8" x 2.75" x 1/4"	19,000





Bench Grinding Wheels, Type 1

- Wheels are individually precision balanced, trued and faced for smooth operation
- Each wheel is individually boxed so they stay clean and undamaged until use
- Designed for versatile off-hand grinding in deburring barstock after cutting and touching up, reconditioning and sharpening tools where precision grinding is not required
- Grinding is done on the wheel periphery only
- Aluminum oxide wheel grinds metal of high tensile strength, like steel and steel alloy

Model	Size	Grit
1423-2311	6" x 3/4"	36
1423-2310	6" x 3/4"	60
1423-2312	6" x 3/4"	80





Safety First - Always Grind Safely!

Always ensure grinding wheels and machines are in good working condition. Damaged or improperly used grinding wheels are dangerous. Machine guards are for protection - use them. Wear adequate personal protection. All Firepower abrasives are manufactured under rigid quality conditions to ensure product strength and safety. However, approved guards and protective equipment, such as, impact resistant safety glasses, full face shield, safety shoes, arm guards, leather gloves and apron must be used for operator protection for all grinding operations. always wear a respirator to avoid inhalation of dust particles. For information on product safety, please ask us for ANSI B7.1 "Safety Requirements for the use, Care and Protection of Abrasive Wheels".



1423-3162

Flap Discs Zirconia, Type 29

Firepower flap discs durability over the conventional fibre disc results in reduction of both labor and material costs. They are designed to wear away evenly and present a constantly fresh working surface.

- · Cut and finish at the same time with consistent finish for coarse and intermediate grinding and machining of welds, deburring, rust removal. snagging, removal of paint, etc. This means fewer change-overs
- Suitable for almost all materials: ferrous and non-ferrous metals, wood, leather, glass, marble and plastics
- No loading-up, as new sharp abrasive particles are constantly exposed
- No backing pad required comes with fiberglass backing plate with higher RPM rating than resin fiber discs



face shields over safety glasses

Model Grit 4.5" x 7/8" (without Hub): Max RPM: 13,300 ZA 36 1423-3162 1423-3163 ZA 60 1423-3164 ZA 80 4.5" x 5/8"-11 NC (with Hub): Max RPM;13,300 1423-2220 ZA 36

ZA 60

1423-2221

Recommendation:

 We recommend using the following grit sizes to attain a maximum stock removal rate

Grit 36*: For all alloyed and low-alloyed steels

Grits 60 & 80*: For high alloyed steel, stainless steel, high-temperature and heat treatable steel and high tensile, non-ferrous metals

- * A coarser grit offers the advantage of a higher stock removal rate and service life
- Firepower flap discs have the ideal operating angle of 10°. This allows for maximum use of the laminates and guarantees optimum stock removal produced by a continuously free cutting abrasive.
- Excessive pressure leads to a higher wheel-wear, without increasing performance

Safety First - Always Grind Safely!

To avoid injury always wear impact-resistant protective glasses, full face shield, safety shoes, arm guards, leather gloves and apron for all grinding operations.

For Abrasive Disc Grinding:

- 1. Never use a larger diameter disc than specified by manufacturer
- 2. Never exceed maximum RPM
- 3. Check for concentricity
- 4. Always check for snug fit and full-thread contact
- 5. Always use grinders safety pad
- 6. Always check spindle for wobble
- 7. Always check disc retainer nut for thread wear



Resin Fiber Sanding Disks and Hand Pads

Firepower resin fibre discs have the best combination of the highest quality aluminum oxicide grains and heavy-duty vulcanized fibre-cloth backing bonded with strong, heat resistant resin

- · Excellent for removing rust, oxides and surface imperfections
- Maximum performance on portable right angle grinders
- Firepower resin fibre discs should be mounted on a rubber backing pad, for optimum performance

Model	lel Grit	
5" x 7/8" (3 Pc./Pack):		
Max RPM: 11,0	100	
1423-2164	A.C 24	
1423-2165	A.C 36	
1423-2166	A C 50	

7" x 7/8" (3 Pc./Pack): Max RPM: 7,600

1423-2171	A.C 24
1423-2172	A.C 36
1423-2173	A.C 50

Safety First - Always Grind Safely!

To avoid injury always wear complete body protection at all times: Impact-resistant protective glasses, full face shield, safety shield, safety shoes, arm guards, leather gloves and apron for all grinding operations. Always wear a respirator to avoid inhalation of dust particles. Persons entering an area where grinding is taking place, must always wear adequate and approved face and body protection.

For Abrasive Disc Grinding:

- 1. Never grind without a proper back-up pad
- 2. Never use larger diameter disc than specified by the manufacturer
- 3. Never use back pad without first inspecting it for signs of irregularities such as fractures, excessive wear, nicks, cuts at the edges or the centre hole.
- 4. Always check the pad for concentricity. Always check the grinder spindle for wobble. Always check the disc retainer nut for thread wear. Install the pad on the tool securely. Check for snug fit and three thread contact.
- 5. Direct grinding sparks downward and away from the face and body. Do Not Grind near any flammable material.
- 6. Never use another grinding disc as a back-up pad.
- 7. Never exceed maximum RPM.
- 8. Always use the grinders safety pad.
- 9. Operate grinder with disc and pad inclined approximately 5°-15° from the work surface. Grind depressions, moulding, lips and heavy welds with the grinder moving away from the work area and not into it. Avoid grinding near the edge, corner or projections that can snag the edge of the pad or disc.
- 10. Always observe all safety recommendations supplied by the equipment manufacturer.

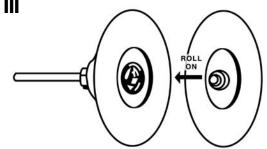


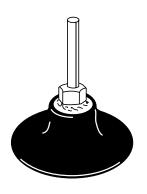
Quick Change and Surface Conditioning Discs, Type III

- Provide low vibration, less tool down time, and longer disc life
- Designed for quick disc and grit changes
- These time saving discs are quickly and firmly mounted on a special reusable 1/4" mandrel
- Surface conditioning discs provide superior performance for: Scratch removal, Removing flash, rust and oxidation, light deburring, blending welds, blending and conditioning metal surfaces and removing heat discoloration
- Maximum RPM: 5,000

Model	Grit/Color	Туре	Pcs./Pk.
1423-2140	Brown	Coarse	10
1423-2141	Maroon	Medium	10
Surface Condition Discs, 3"			
1423-2143 3" x 1/4"			

3" x 1/4" Shank









Mounted Flap Wheels

Firepower flap wheels are constructed of hundreds of resin bonded cloth abrasive sheets firmly attached to a balanced core. During use, each flexible sheet adapts quickly to the contours of the workpiece - continuously exposing fresh, sharp grit for extended product life. The controllable aggressiveness, working speed, and low cost of the wheels make them superior to wire brush, grit-impregnated plastic, fibrous and setup wheels in a wide range of applications.

Model Mounted Flap	Wheel Dimensions Wheels	Grit	Max. RPM
1423-2160	1" x 1" x 1/4"	60	25,000
1423-2161	1" x 1" x 1/4"	80	25,000
1423-2157	1.5" x 1/2" x 1/4"	60	25,000
1423-2158	1.5" x 1/2" x 1/4"	80	25,000
1423-2254	1.5" x 1/2" x 1/4" (5 pc./Pack)	80	25,000
1423-2255	1.5" x 1/2" x 1/4" (5 pc./Pack)	120	25,000
1423-2151	3" x 1" x 1/4"	60	18,000
1423-2152	3" x 1" x 1/4"	80	18,000



1423-2152

Tips for Firepower Abrasive Flap Wheels:

- 1. Make sure flap wheel is run in correct direction of rotation. For automatic in-feeding of workpiece, the direction of flap wheel rotation should be contrary to the feed direction.
- 2. For a given finish, choose a grit one or two sizes coarser compared to abrasive belts.
- 3. Coarse grit sizes used at high speeds work finer. Fine grit sizes used at lower speeds work coarser.
- 4. Grinding oil or grease may be used for improved finish and the flap wheel life.
- Use light pressure at low speeds, added pressure at high speeds. Do Not use excessive pressure or allow the flaps to bend back to far. If more stock removal is necessary, choose a coarser grit.
- Abrasive flap wheels can be shaped to fit contours and other configurations by using a file, abrasive stone, or other cutting tool to cut the mop face. Always use proper safety equipment.
- 7. Make sure that mounting plates are of the proper size and are correctly fitted when used. Never over tighten fastening nuts or hub damage may result. Always use proper machine guards.



1423-2158



1423-2160



World Class Service

Thermadyne prides itself not only on premier products, but on world class customer service as well. Should you have any questions on our products, please call **800-858-4232**. Dedicated Thermadyne Specialty Markets Customer Care associates are available 5 days a week (M-F) from 8 AM to 5 PM Central Time. General information including a directory of service centers and product literature can be accessed 24 hours a day on our website, **www.thermadyne.com**

Duty Cycle Explanation

The duty rating defines how long the machine can be used before work must be stopped, in order to let the machine cool down. Duty cycle ratings are expressed as a percentage of a ten-minute period. It represents the maximum welding and cutting time allowed at the specified amperage setting. The remaining balance of the ten-minute period is required for cooling down the machine. For example, if the machine has a 40% duty cycle at 150 amps it can weld up to 4 minutes and then needs to cool off for the remaining 6 minutes. If a machine is operated below its rated output, the duty cycle typically increases.

Welding Tips

- Keep the torch handle at a 45° angle with respect to the metal. Maintain the nozzle about 1/4" (0.6mm) from the surface.
- Move the torch handle with prudence and steadiness.
- Avoid MIG welding in areas with too much draft. Too much draft blows away
 the shielding gas from the weld pool and may cause porosity in the weld.
- Keep the wire and its cover clean. DO NOT use rusted wire.
- Avoid sharp bends and kinks on the MIG gun cable.
- If possible, clean the wire liner with compressed air when replacing the wire spool.
- Periodically, remove the dust using low pressure air or nitrogen (2-3 Bar/30-45 PSI) from the inside of the power source, to assure adequate heat dissipation from power source during operation.



STATEMENT OF WARRANTY

(as of March 15, 2009)

LIMITED WARRANTY: THERMADYNE warrants that its products will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within the time period applicable to the THERMADYNE products as stated below, THERMADYNE shall, upon written notification thereof and substantiation that the product has been stored, installed, operated, and maintained in accordance with THERMADYNE's specifications, instructions, recommendations and recognized standard industry practice, and not been subject to misuse, repair, neglect, alteration, or accident, correct such defects by suitable repair or replacement, at THERMADYNE's sole option, of any components or parts of the product determined by THERMADYNE to be defective.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY: THERMADYNE shall not under any circumstances be liable for special, indirect or consequential damages, such as, but not limited to, damage or loss of purchased or replacement goods, business interruption or loss of profit, or claims of customers of distributor (hereinafter the "Purchaser") for service interruption. The remedies of the Purchaser set forth herein are exclusive and the liability of THERMADYNE with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, or use of any goods covered by or furnished by THERMADYNE whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

THIS WARRANTY BECOMES INVALID IF REPLACEMENT PARTS OR ACCESSORIES ARE USED WHICH MAY IMPAIR THE SAFETY OR PERFORMANCE OF ANY THERMADYNE PRODUCT.

THIS WARRANTY IS INVALID IF THE PRODUCT IS SOLD BY NON-AUTHORIZED PERSONS.

This warranty is effective for the time stated in the Warranty Schedule beginning on the date that the authorized distributor delivers the products to the Purchaser.

Warranty repairs or replacement claims under this limited warranty must be submitted by an authorized THERMADYNE repair facility within thirty (30) days of the repair. No transportation costs of any kind will be paid under this warranty. Transportation charges to send products to an authorized warranty repair facility shall be the responsibility of the Purchaser. All returned goods shall be at the Purchaser's risk and expense. This warranty supersedes all previous THERMADYNE warranties.

WARRANTY SCHEDULE

The warranty is effective below for the time stated in the Warranty Schedule beginning on the date that the authorized distributor delivers the products to the purchaser. THERMADYNE reserves the right to request documented evidence of date of purchase.

GAS WELDING AND CUTTING EQUIPMENT	Parts / Labor
Victor® Professional	5 years / NA
Victor CutSkill®	2 years / NA
Victor FirePower®	1 year / NA
Victor VSP	2 years / NA
Aluminum Cylinders	10 years / NA
Steel Cylinders	1 year / NA
TurboTorch®	3 years / NA
Transformers	5 years / NA
Parts Used in Rental Applications	1 year from date sold by seller to authorized distributor

ARC ACCESSORIES, ARC GOUGING & SLICE EQUIPMENT	Parts / Labor
TC and TCV Water Coolers	1 year / NA
TSC-96 Smoke Collector	1 year / NA
ESG-1, EPG-CR1, EPG-CR2 Control Boxes for Eliminator Spool & Pull Guns	1 year / NA
Eliminator® Spool and Pull Guns	90 days / NA
PulseMaster™ MIG Guns & PullMaster™ Pull Guns	90 days / NA
All other products 30 days from date of purchase including but not limited to:	30 days / NA
MIG Guns Arc Gouging Equipment Slice Equipment	

PLASMA CUTTING SYSTEMS	Parts / Labor
CUTMASTER® TRUE™ Series	4 years / 4 years
CUTMASTER 1Series™	3 years / 3 years
AirCut™ 15C	1 year / 1 year
Drag-Gun® Plus	2 years / 1 year
Drag-Gun	1 year / 1 year
PAK® 200	2 years / 1 year
Torches	1 year / 1 year
Consoles, Control Equipment, Heat Exchangers and Accessory Equipment	1 year / 1 year



WARRANTY SCHEDULE

(as of March 15, 2009)

The warranty is effective below for the time stated in the Warranty Schedule beginning on the date that the authorized distributor delivers the products to the purchaser. THERMADYNE reserves the right to request documented evidence of date of purchase.

GMAW/FCAW (MIG) WELDING EQUIPMENT	Parts / Labor
Fabricator® 140, 180, 190, 210, 251, 281; Fabstar® 4030; PowerMaster® 350, 350P, 500, 500P, 320SP, 400SP, 500SP; Excel-Arc® 6045; Wire Feeders: Ultrafeed®, Porta-feed®	
Original Main Power Transformer and Inductor	5 years / 3 years
Original Main Power Rectifiers, Control P.C. Boards, Power Switch Semi-Conductors	3 years / 3 years
All Other Original Circuits and Components Including, but not Limited to, Relays, Switches, Contactors, Solenoids, Fans, Electric Motors	1 year / 1 year
GTAW (TIG) & MULTI-PROCESS INVERTER WELDING EQUIPMENT	Parts / Labor
160TS, 300TS, 400TS, 185AC/DC, 200AC/DC, 300AC/DC, 400GTSW, 400MST, 300MST, 400MSTP	
Original Main Power Magnetics	5 years / 3 years
Original Main Power Rectifiers, Control P.C. Boards, Power Switch Semi-Conductors	3 years / 3 years
All Other Original Circuits and Components Including, but not Limited to, Relays, Switches, Contactors, Solenoids, Fans, Electric Motors	1 year / 1 year
SMAW (Stick) WELDING EQUIPMENT	Parts / Labor
Dragster™ 85; 95S Original Main Power Magnetics	1 year / 1 year
Original Main Power Magnetics Original Main Power Rectifiers, Control P.C. Boards	1 year / 1 year 1 year / 1 year
All Other Original Circuits and Components Including, but not Limited to, Relays,	1 year / 1 year
Switches, Contactors, Solenoids, Fans, Power Switch Semi-Conductors	r your / r your
Original Main Power Magnetics	5 years / 3 years
Original Main Power Rectifiers, Control P.C. Boards	3 years / 3 years
All Other Original Circuits and Components Including, but not Limited to, Relays,	1 year / 1 year
Switches, Contactors, Solenoids, Fans, Power Switch Semi-Conductors	i youi / i youi
GENERAL ARC EQUIPMENT	Parts / Labor
FirePower® MIG Welders	5-2-1 years / NA
Water Recirculators	1 year / 1 year
Plasma Welding Torches	180 days / 180 days
Gas Regulators (Supplied with Power Sources)	180 days / NA
MIG and TIG Torches (Supplied with Power Sources)	90 days / NA
Replacement Repair Parts	90 days / NA
MIG, TIG and Plasma Welding Torch Consumable Items	NA / NA

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