

General Welding Product Catalog

Firepower[®]

A THERMADYNE[®] Company

***Equipment,
Safety
Products,
Consumables
& Accessories***



***Presenting
everything you
need in quality
welding and
safety products.***

Buy all your welding, cutting and safety products from a single source. A source that's an industry leader with over 400 years of combined experience in welding products. With Firepower, you've got everything you need in welding, cutting safety products, and now a full line of accessories. Plus the strength that comes from Thermadyne, the world's leading manufacturer of products for metalworking and safety needs. What's more, with Firepower you can also count on a complete program



designed with you and your customers in mind. User friendly products, eye-catching packaging and P.O.P., and knowledgeable support staff ready to help you serve your customers and increase sales. So whether you need one /SKU or an entire welding line,

***Firepower®
can help you
increase sales.***

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World Class Service

As part of the Thermadyne family, Firepower prides itself not only on premier products, but on world-class customer service as well. Should you have questions on any of the Firepower products, please call 1-800-858-4232. Dedicated Firepower Customer Care associates are available 5 days a week (M-F) from 8a.m. - 6p.m. central time. General information, including a directory of service centers, and product literature can be accessed 24 hours a day on our website, www.firepoweronline.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.

Firepower Machines at a Glance

MIG • GMAW • Flux-Cored • FCAW • Welders

MODEL	Part #	Page	Flux-Cored	MIG	Input Voltage	Rated Amps	Rated Duty Cycle	Maximum Thickness
FP90	1444-0302	4	Yes	No	120V	80 Amps	15%	3/8"
FP120	1444-0304	5	Yes	Yes	120V	88 Amps	20%	1/4"
FP130	1444-0306	6	Yes	Yes	120V	90 Amps	40%	1/4"
FP160	1444-0308	7	Yes	Yes	230V	130 Amps	20%	3/8"
FP200	1444-0310	8	Yes	Yes	230V	155 Amps	60%	1/2"
FP260	1444-0312	9	Yes	Yes	230V	200 Amps	60%	5/8"

TIG • GTAW • Welders

MODEL	Part #	Page	AC	DC	Input Voltage	Rated Amps	Rated Duty Cycle	Maximum Thickness
FP185T	1442-0001	14	Yes	Yes	208-230V	180 Amps	30%	-

Arc/Stick • SMAW • Welders

MODEL	Part #	Page	AC	DC	Input Voltage	Rated Amps	Rated Duty Cycle	Maximum Thickness
FP100	1443-0402	15	Yes	No	120V	65 Amps	15%	3/16"
FP235	1443-0404	16	Yes	No	230V	200 Amps	20%	1/2"
FP235 AC/DC	1443-0406	17	Yes	Yes	230V	200 Amps (AC); 135 Amps (DC)	20%	1/2"

Engine Driven Welders

MODEL	Part #	Page	AC	DC	Output Voltage	Rated Amps	Rated Duty Cycle	Maximum Thickness
FP190E	1444-0314	19	No	Yes	230V	170(DC)	60%	7/16"
Raider 10,000	1444-0317	20	No	Yes	115-460V	250 Amps	100%	-

Plasma Cutters

MODEL	Part #	Page	Weight	Requires Shop Air	Input Voltage	Rated Output	Rated Duty Cycle	Maximum Thickness
FP18	1445-0047	21	55 lbs.	No*	115V	12 Amps	30%	1/8"
FP38	1445-0085	22	43 lbs.	Yes	115-230V	30 Amps	35%	3/8"
FP55	1445-0075	23	88 lbs.	Yes	250V	35 Amps	40%	1/2"
FP82	1445-0002	24	88 lbs.	Yes	230-460V	60 Amps	40%	1"

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FP90 FLUX CORED WELDING SYSTEM

The FP90 Flux-Cored Welder provides simple, yet effective welding. Even the novice welder can achieve professional results with this machine. And because it requires no shielding gas, it is ideal to use if welding is taking place outside where wind can affect results.

With a standard 115 volt household current, and 15% duty cycle, this unit is suitable for light duty applications such as home projects, farm and light maintenance repairs.



Comes Complete With

- 6 ft. genuine Tweco® style MIG gun
- 4 ft. ground cable and work clamp
- 4 ft. power cord with plug
- Welding nozzle and tip
- Spool of .035 flux core welding wire
- Instruction manual (English, French, Spanish)

Features

- Features Firepower easy weld smooth arc system
- DC welding output
- Welds with flux core wire
- Two position welding power control
- Thermostatic heat protection
- Infinite wire speed control

The Firepower MIG welding cart makes it easy to move your portable MIG welding system to the job.

Features:

- Built in cylinder rack for safety
- Storage tray for welding accessories
- Works with FP90, FP120, FP130, FP160



Part # DESCRIPTION
1444-0407 MIG welding cart

Part No. 1444-0302



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Wire Speed Adjust.	Wire Size Capacity	Dimensions	Weight
120V 60 HZ	15	17.5 DC	90	27	80 A @ 15%	3/16"	High/Low	Infinite	.030 .035	H: 11" (340mm) W: 7-3/4" (195mm) D: 14-1/2" (370mm)	45 lbs. (20.6kg)

FP120 MIG/FLUX CORED WELDING SYSTEM

The FP120 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.



Comes Complete With

- Genuine Firepower® argon regulator
- 10 ft. genuine Tweco® style MIG gun
- 6 ft. ground cable and work clamp
- 6 ft. power cord with plug
- Welding nozzle and tip
- Spool of .030" MIG welding wire
- Instruction manual (English, French, Spanish)

Features

- Uses standard 115 volt household current
- Welds with or without shielding gas
- Welds with solid or flux core wire
- Wire sizes, .023", .030", .035"
- 2 lb. and 10 lb. wire spool capacity
- Two, Four position welding power control
- Illuminated on/off power switch
- Illuminated thermal overload indicator
- Thermostatic heat protection
- Infinite wire speed control

The Firepower MIG welding cart

makes it easy to move your portable MIG welding system to the job.

Features:

- Built in cylinder rack for safety
- Storage tray for welding accessories
- Works with FP90, FP120, FP130, FP160



Part # DESCRIPTION
1444-0407 MIG welding cart

Part No. 1444-0304



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Wire Speed Adjust.	Wire Size Capacity	Dimensions	Weight
120V 60 HZ	15	18	110	30	88 A @ 20%	1/4"	4	Infinite	.023 .030 .035	H: 12-3/4" (375mm) W: 9-3/4" (250mm) D: 17-3/8" (440mm)	51 lbs. (23.5kg)

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FP130 MIG/FLUX CORED WELDING SYSTEM

The FP130 dual-purpose MIG Welder operates on standard 115 volt household current, but has the power to handle heavier duty applications such as general fabrication and repair shop work.

Under 60 lbs, this heavy-duty unit is still portable, but packs a punch. It's 40% duty cycle ensures that even thicker metals can be welded with no problem.



Comes Complete With

- Argon regulator
- 10 ft. Helvi® style MIG gun
- 6 ft. ground cable and work clamp
- 6 ft. power cord with plug
- Welding nozzle and tip
- Spool of .030 MIG welding wire
- Instruction manual (English, French, Spanish)

Features

- Uses standard 115 volt household current
- Increased welding capacity
- Welds with or without shielding gas
- Welds with solid or flux core wire
- Wire sizes, .023", .030", .035"
- 2 lb. and 10 lb. wire spool capacity
- Four position welding power control
- Illuminated on/off power switch
- Illuminated thermal overload indicator
- Thermostatic heat protection
- Infinite wire speed control
- Heavy duty wire drive system

The Firepower MIG welding cart makes it easy to move your portable MIG welding system to the job.

Features:

- Built in cylinder rack for safety
- Storage tray for welding accessories
- Works with FP90, FP120, FP130, FP160



Part #	DESCRIPTION
1444-0407	MIG welding cart

Part No. 1444-0306



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Wire Speed Adjust.	Wire Size Capacity	Dimensions	Weight
120V 60 HZ	15	18	120	32	90 A @ 40%	1/4"	4	Infinite	.023 .030 .035	H: 12-3/4" (375mm) W: 9-3/4" (250mm) D: 17-3/8" (440mm)	56 lbs. (25.5kg)

FP160 MIG/FLUX CORED WELDING SYSTEM

The FP160 dual-purpose MIG Welder is the first of Firepower's line of 230 volt wire feed welding machines. Changing processes from MIG (GMAW) to Flux Cored (FCAW) requires only an internal polarity adjustment that is quick and easy.

This industrial heavy-duty unit is designed to meet the needs of both the repair shop and serious DIY user.



Comes Complete With

- Argon regulator
- 10 ft. Helvi® style MIG gun
- 6 ft. ground cable and 200 amp work clamp
- 6 ft. power cord (without plug)
- Spool of .030 MIG welding wire
- Instruction manual (English, French, Spanish)

Features

- Industrial performance
- Use standard 230 volt single phase current
- Welds with or without shielding gas
- Welds with solid or flux core wire
- Wire sizes, .023", .030", .035"
- 2 lb. and 10 lb. wire spool capacity
- Four position welding power control
- Illuminated on/off power switch
- Illuminated thermal overload warning indicator
- Thermostatic heat protection
- Infinite wire speed control
- Heavy duty wire drive system

The Firepower MIG welding cart makes it easy to move your portable MIG welding system to the job.

Features:

- Built in cylinder rack for safety
- Storage tray for welding accessories
- Works with FP90, FP120, FP130, FP160



Part No. 1444-0308 

Part # DESCRIPTION
1444-0407 MIG welding cart

Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Wire Speed Adjust.	Wire Size Capacity	Dimensions	Weight
230V 60 HZ	23	30	155	30	130 A @ 20%	3/8"	4	Infinite	.023 .030 .035	H: 12-3/4" (375mm) W: 9-3/4" (250mm) D: 17-3/8" (440mm)	60 lbs. (27.3kg)

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FP200 WELDING SYSTEM

The FP200 dual-purpose MIG Welder includes all the features required by the professional welder, including a seven position welding power output control, adjustable burn back and soft arc control and infinite wire speed control.

The unit welds up to 1/2" mild steel, and also provides excellent aluminum capabilities with the optional spool gun.

The unit is ruggedly designed to withstand frequent use and heavy duty applications, and also comes with a handle and wheels for easy movement throughout the shop.

Comes Complete With

- Genuine Firepower® argon regulator
- 10 ft. Helvi® style MIG gun
- 10 ft. ground cable and work clamp
- 10 ft. power cord (without plug)
- Welding nozzle and tip
- Spool of .035 MIG welding wire
- Instruction manual (English, French, Spanish)

Features

- Welds 22 gauge to 1/2" mild steel in a single pass
- Excellent aluminum capabilities (with optional spool gun)
- Euro style easy connect MIG gun system
- Spool gun ready
- Heavy duty gear driven wire feed system
- Seven position welding power output control
- Spot weld timer
- Adjustable burn back control
- Adjustable soft arc control
- Infinite wire speed control
- Heavy duty braking system
- Built-in cylinder rack and running gear
- Illuminated power indicator
- Illuminated thermal over load warning indicator
- 2 lb., 10 lb., 30 lb. wire spool capacity
- Thermostatic overload protection
- 5-2-1 Warranty



Firepower's semi-automatic spool gun

is designed to be used with either FP200 or FP260.

Features

- 200 amp, 60% duty cycle
- Compact design maximizes operator control and reduces hand and arm fatigue
- Gun mounted potentiometer allows the user to weld and control wire speed with one hand operation

Comes Complete With

- 20 ft. quick connect cable system
- Spool gun
- MIG gun nozzle
- Contact Tips (Tweco®)
- Designed to work with Firepower® products



Part #	DESCRIPTION
1444-0408	Semi-automatic spool gun

Part No. 1444-0310



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Wire Speed Adjust.	Wire Size Capacity	Dimensions	Weight
230V 60 HZ	25	21.7	210	40	155 A @ 60%	1/2"	7	Infinite	.023" .030" .035" .040" .045"	H: 31" (785mm) W: 19-1/2" (488mm) D: 33" (840mm)	173 lbs. (23.5kg)

FP260 WELDING SYSTEM

The FP260 dual-purpose MIG Welder includes all the features offered on the FP200, but welds up to 5/8" mild steel.

The FP260 Welding system offers industrial performance at an affordable price. This system includes the most popular features desired by professional welders and increases efficiency and productivity. This unit is ideal for fabrication work, garage/auto body, fleet, farm and ranch repairs. The perfect choice for the serious welder

Comes Complete With

- Argon regulator
- 10 ft. Helvi® style MIG gun
- 10 ft. ground cable and work clamp
- 10 ft. power cord (without plug)
- Welding nozzle and tip
- Spool of .035 MIG welding wire
- Instruction manual (English, French, Spanish)



Features

- Welds 22 gauge to 5/8" mild steel in a single pass
- Excellent aluminum capabilities with optional spool gun
- Euro style easy connect MIG gun system
- Spool gun ready
- Heavy duty gear driven wire feed system
- Seven position welding power output control
- Spot weld timer
- Adjustable burn back control
- Adjustable soft arc control
- Infinite wire speed control
- Built-in cylinder rack and running gear
- Illuminated power on indicator
- Illuminated thermal over load warning indicator
- 2 lb., 10 lb., 30 lb. wire spool capacity
- Thermostatic overload protection
- 5-2-1 Warranty

Firepower's semi-automatic spool gun

is designed to be used with either FP200 or FP260.

Features

- 200 amp, 60% duty cycle
- Compact design maximizes operator control and reduces hand and arm fatigue
- Gun mounted potentiometer allows the user to weld and control wire speed with one hand operation

Comes Complete With

- 20 ft. quick connect cable system
- Spool gun
- MIG gun nozzle
- Contact Tips (Tweco®)
- Designed to work with Firepower® products



Part #	DESCRIPTION
1444-0408	Semi-automatic spool gun



Part No. 1444-0312

Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Wire Speed Adjust.	Wire Size Capacity	Dimensions	Weight
230V 60 HZ	35	26	270	45	200 A @ 60%	5/8"	7	Infinite	.023" .030" .035" .040" .045"	H: 31" (785mm) W: 19-1/2" (488mm) D: 33" (840mm)	200 lbs. (91kg)

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MIG NOZZLE INSULATORS



MIG NOZZLE INSULATORS

Model	Part #	Description
FP-32	1444-0075	Insulator for 250 amp gun (2 pk)
FP-34A	1444-0261	Insulator for 400 amp gun (2 pk)

GAS DIFFUSERS



GAS DIFFUSERS

Model	Part #	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	Female Thread diffuser for Tweco style gun

REPLACEMENT WIRE CONDUIT ASSEMBLIES



WIRE CONDUIT ASSEMBLIES

Model	Part #	Description
FP42-3035-15	1444-0170	.030-.035 Wire 15' long
FP42-4045-15	1444-0171	.040-.045 Wire 15' long
FP42N-3545-15	1444-0172	.035-.045 Wire 15' long, nylon

180 AMP MIG GUN CONTACT TIPS



180 Amp MIG Gun Contact Tips

Model	Part #	Description
A FP11-23	1444-0025	.023 wire, Tip ID .031 (10 pk)
B FP11-30	1444-0026	.030 wire, Tip ID .038 (10 pk)
C FP11-35	1444-0027	.035 wire, Tip ID .044 (10 pk)
D FP11-40	1444-0028	.040 wire, Tip ID .048 (10 pk)
E FP11-45	1444-0029	.045 wire, Tip ID .054 (10 pk)

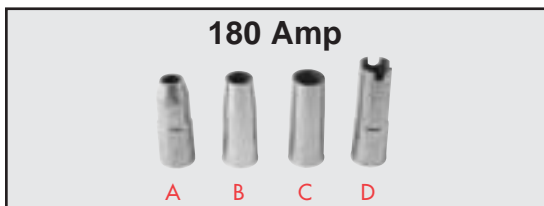
250 & 400 AMP MIG GUN CONTACT TIPS



250 & 400 Amp MIG Gun Contact Tips

Model	Part #	Description
A FP14-23	1444-0220	.023 wire, Tip ID .031 (10 pk)
B FP14-30	1444-0221	.030 wire, Tip ID .038 (10 pk)
C FP14-35	1444-0222	.035 wire, Tip ID .044 (10 pk)
D FP14-40	1444-0223	.040 wire, Tip ID .048 (10 pk)
E FP14-45	1444-0224	.045 wire, Tip ID .054 (10 pk)

MIG GUN NOZZLES



Nozzles - 180 Amp Guns

Model	Part #	Description
A FP21-37	1444-0050	3/8" Bore (1pk)
B FP21-50	1444-0051	1/2" Bore (1pk)
C 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	Part #	Description
A FP22-50	1444-0140	1/2" Bore (1pk)
B FP22-62	1444-0141	5/8" Bore (1pk)
C FP22-62-FAS	1444-0142	5/8" Bore, Arc Spot (1pk)



Nozzles - 400 Amp Guns

Model	Part #	Description
A FP24A-50	1444-0240	1/2" Bore (1pk)
B FP24A-62	1444-0241	5/8" Bore (1pk)
C FP24A-62-FAS	1444-0242	5/8" Bore, Arc Spot (1pk)

250 AMP REPLACEMENT MIG GUN



1444-0101

- Rated at 250 amps, 15' length
- Standard Tweco style rear end to ensure proper conductivity
- Uses FP-52 diffuser which has female threads that hold the Series 14 Contact Tips
- Uses FP-32 insulator that threads onto the diffuser to hold the nozzle in place

250 AMP GUN

Model	Part #	Description
FP250-15-3035	1444-0101	.035" wire, 15' Cable

400 AMP REPLACEMENT MIG GUN



1444-0201

- Rated at 400 amps, 15' length
- Standard Tweco style rear end to ensure proper conductivity
- Uses FP-54 diffuser which has female threads that hold the Series 14 Contact Tips
- Uses FP-34A insulator that threads over the diffuser to hold the nozzles in place

400 AMP GUN

Model	Part #	Description
FP400-15-3545	1444-0201	.045" wire, 15' Cable

WELDING SYSTEM REPLACEMENT MIG GUNS



1444-0404



1444-0406

REPLACEMENT MIG GUNS

Model	Part #	Description
FP 150	1444-0404	MIG Gun Fits FP 90 Welder Maximum Output Amps 90
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

MIG GUN REPAIR END ADAPTERS



1444-0096

- Repair end adapter, fits Milleromatic 250

REPAIR END ADAPTER

Model	Part #	Description
FPMSAK-35-M2	1444-0096	Milleromatic 250 amp

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AIR-CARBON ARC GOUGING TORCHES



1443-0042

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, then blows it away with ordinary compressed air in a single pass!

- Natural 15° torch angle and 360° swivel feature provide comfort and operating ease; 7' in length.
- Torch uses 1/8" (3.2mm) 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).
- Torch weight with cable only 3.6 lbs. (1.6 kg).
- Requires a minimum of a 300 AMP 3 Phase, arc welding machine. AC or DC, DC preferred.
- Perfect for bead removal on welded joints.

ARC GOUGING TORCHES AND CARBON RODS

Model	Part #	Description	CURRENT
FP-2000	1443-0042	Torch & Cable Assembly	N/A
FP-3/16DCCC	1443-0046	3/16" x 12" Rods (50)	200 Amp
FP-1/4-DCCC	1443-0047	1/4" x 12" Rods (50)	400 Amp

Note: All carbon's are direct current, copper coated (DCCC) pointed

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FP185T TIG Welder

The FP185T is an AC/DC TIG power supply offering the highest value and performance in a TIG welding power source. All functions and controls are easily set through robust easy to use push button switches on the front panel. Each function is marked by a symbol and lighted LED that clearly marks which function is being adjusted. The FP185T includes a digital AMP / Volt Meter, Gas Solenoid Valve, remote control capabilities, VRD (Voltage Reduction Device) circuit, Current Pulsing and Sloping with repeat function as standard features.



The design of the FP185T offers both AC/DC TIG welding and handles just about any job with the full range capability from 185 amps down to 5 amps. The FP185T yields welds with superior purity and exceptionally clean appearance, as well as x-ray quality welds on all metals. Precise wave shaping allows the operator to control the cleaning, penetration, and heat input of any aluminum application.

Comes Complete With

- Includes 185T with Power Cord and Plug
- 12.5' Air-Cooled TIG Torch with Accessory Kit
- Work Clamp with 10' Cable
- Stick Electrode Holder with 13' Cable
- Argon Regulator
- Remote Foot Control.

Features

- Smart Logic® - Prevents damage if unit is accidentally connected to improper current
- Push Button Control Panel
- True Square Wave AC Output
- Pulse Mode (Standard)
- TIG Modes (Slope, Repeat and Spot)
- Remote Receptacle
- Warning Code Circuitry
- VRD™ Inside: Voltage Reduction Device reduces the OCV when the power supply is not in use.

Accessories

- 1442-0002 - Backcap, Short (2pk)
- 1442-0003 - Collet for .040" (5pk)
- 1442-0004 - Collet for 1/16" (5pk)
- 1442-0005 - Collet for 3/32" (5pk)
- 1442-0006 - Collet body for .040" (5pk)
- 1442-0007 - Collet body for 1/16" (5pk)
- 1442-0008 - Collet body for 3/32" (5pk)
- 1442-0009 - Cup Alumina #4 (10 pk)
- 1442-0010 - Cup Alumina #5 (10 pk)
- 1442-0011 - Cup Alumina #6 (10 pk)
- 1442-0012 - TIG Accessory Kit
- 1442-0013 - Tungsten .040" 2% Thoriated (10 pk)
- 1442-0014 - Tungsten 1/16" 2% Thoriated (10 pk)
- 1442-0015 - Tungsten 3/32" 2% Thoriated (10 pk)

Max Output	Duty Cycle	Output Amp	Output Voltage	Input Voltage (VAC)		kVA	kW
				208 Input Amps	230 Input Amps		
STICK TIG	40%	160	26	40	38	8.7	5.2
	30%	185	17.4	32	29	6.7	4.1

Part No. 1442-0001

Maximum OCV	Input Frequency	Output Range	Rated Output @ Duty Cycle	Output Range	Dimensions	Weight
64V	50/60 Hz	5 - 185 Amps	185 A / 17.4 V @ 30% 160 A / 26 V @ 40%	208-230V, 5-185 Amps, DC, Single Phase	H: 14.2" (360mm) W: 7.1" (80mm) D: 16-1/2" (420mm)	41.8 lbs. (19.0kg)
				208-230V, 5-185 Amps, AC, Single Phase		

Approvals: IEC974-1, IP23S

FP100 WELDING SYSTEM

Enjoy the convenience of arc welding repairs at an affordable price. The FP100 operates on standard 120 volt household current and is designed to be simple to operate. The FP100 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 lightweight make this unit both practical and portable. The FP100 is ideal for home, farm, and light maintenance repairs.

Comes Complete With

- 6 ft. welding lead and electrode holder
- 6 ft. ground cable and work clamp
- 4 ft. power cord with plug
- Instruction manual (English, French, Spanish)

Features

- Uses standard 120 volt household current
- Features Firepower easy weld system
- AC welding output
- Infinite amperage adjustment
- Thermostatic heat protection
- Uses 1/16" rod



3

Part No. 1443-0402



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Dimensions	Weight
120V 60 HZ	15	27	90	37	65 A @ 15%	3/16"	Infinite	H: 11-1/2" (290mm) W: 9" (225mm) D: 13-1/4" (338mm)	27 lbs. (12kg)

FP235 ARC WELDING SYSTEM

The FP235 offers powerful 235 Amp AC (SMAW) welding performance at an affordable price. The FP235 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.

Comes Complete With

- 10 ft. welding lead and electrode holder
- 6 ft. ground cable and work clamp
- 6 ft. power cord (without plug)
- Wheel kit and handle
- Instruction manual (English, French, Spanish)

Features

- Uses standard 230 volt household current
- AC welding output
- Infinite amperage adjustment
- Thermostatic heat protection
- Portable wheel and handle kit
- Professional dinse style cable connections
- Fan cooled transformer
- Illuminated power on indicator
- Illuminated thermal overload indicator
- Thermostatic heat protection
- 5-2-1 Warranty



Part No. 1443-0404



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Rated Output Duty Cycle	Maximum Weld Capacity	Output Power Settings	Dimensions	Weight
230V 60 HZ	48.5	20	235	72	200 A @ 20%	1/2"	Infinite	H: 23" (597mm) W: 17.5" (441mm) D: 14" (360mm)	99 lbs. (45kg)

FP235 AC/DC ARC WELDING SYSTEM

The FP235 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 FP235 features infinite amperage adjustment, which provides precise welding control. This versatile unit is ideal for both light and heavy-duty repairs.

The FP235'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.



Comes Complete With

- 10 ft. welding lead and electrode holder
- 6 ft. ground cable and work clamp
- 6 ft. power cord (without plug)
- Wheel kit and handle
- Instruction manual (English, French, Spanish)

Features

- Uses standard 230 volt household current
- AC/DC welding output
- Infinite amperage adjustment
- Thermostatic heat protection
- Portable wheel and handle kit
- Professional Dinse connections
- Fan cooled transformer
- Illuminated power on indicator
- Illuminated thermal overload indicator
- Thermostatic heat protection
- 5-2-1 Warranty

Part No. 1443-0406



Input Voltage	Input Amps	Welding Output Voltage	Maximum Output Amps	Open Circuit Voltage	Input Output Duty Cycle	Maximum Thickness Capacity	Output Power Settings	Dimensions	Weight
AC Specs 230V 60 HZ	48.5	20	235	72	200 A @ 20%	1/2"	Infinite	H: 23" (597mm) W: 17.5" (441mm) D: 14" (360mm)	113 lbs. (51kg)
DC Specs 230V 60 HZ	49	21.5	185	63	135 A @ 20%	1/2"	Infinite		

ELECTRODE HOLDERS

3



1443-0015
1443-0016

- Fully insulated, high strength spring for excellent gripping power
- Heavy duty, shock-proof nylon handle
- Supplied with an allen wrench and cable connection ferrule assuring efficient connection and minimizing cable strand breakage at the connection.
- Meets or exceeds Industry Standards.

Model	Amperage Capacity	Electrode Capacity	Cable Capacity	Length
Tong-type				
1443-0015	200	Up to 5/32"	#1	8"
1443-0016	300	Up to 3/16"	2/0	9-1/4"
1423-1211	500	Up to 3/8"	4/0	12-1/4"
Angle Head-Stub-Nose				
1423-1204	400	Up to 3/16"	3/0	8-3/4"



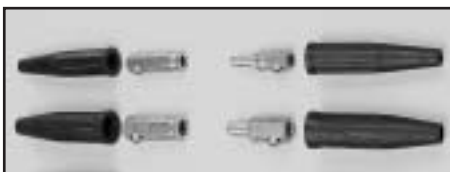
1423-1211



1423-1204

CABLE CONNECTORS & CABLE LUGS

FP-1-PC



FP-2-PC

CABLE CONNECTOR

Model	Part #	Description
FP-1-PC	1443-0035	Fits Cable Size 4, 2, 1
FP-2-PC	1443-0036	Fits Cable Size 1/0, 2/0, 3/0

FP190 WELDER/GENERATOR

The FP190 offers powerful 170 Amp DC (SMAW) welding output plus delivers the highest available auxiliary power at an affordable price. The FP190 portable welding /Power generation system is powered by a high performance air-cooled Honda industrial engine providing both fuel efficiency and performance. The FP190 features a patented Power-Plus alternator that delivers smooth welding output and it's brushless design increases efficiency and the life of the machine.

Separate windings are used for welding and power generation allowing you to utilize auxiliary power while simultaneously using the welding function of the unit. The FP190's rugged, portable design delivers the reliability and performance making it an ideal unit for farm, ranch, industrial structural fabrication and rental operations.




Comes Complete With

- 15 ft. welding cable with electrode holder
- 12 ft. ground cable and work clamp
- (2) 115 volt, 60 hz, 15 amp auxiliary power receptacles
- (1) 230 volt, 60 hz, single phase auxiliary power receptacle
- Instruction manual (English, French, Spanish)

Features

- Simultaneous auxiliary power and welding capabilities
- 9 H.P. industrial Honda engine
- 190 Amp Stick welding output DC
- Fine amperage adjustment control
- Patented power plus alternator
- Low oil pressure shut down
- Hour meter
- Heavy duty rugged roll case design
- 1.5 Gallon fuel tank

4

Part No. 1444-0314 

Engine Type	Engine Model	Auxiliary Power Output	Welding Output Voltage	Maximum Output Amps	Rated Output Duty Cycle	Output Range	Maximum Weld Capacity	Dimensions	Weight
Honda 9 H.P. Pull Start	GX200 OHV	115 V / 230 V Single Phase	26.8	200	170 A @ 60%	30-170 Amps	7/16"	H: 19" (482mm) W: 20" (580mm) L: 29" (736mm)	205 lbs. (93.1kg)

RAIDER® 10,000 PRO

The Raider® is a multiple process machine capable of high quality welding. Its heavy-duty design, built to fit on a truck or trailer, provides high performance on STICK/ Lift Start TIG/MIG and Carbon Arc Gouging at 100% Duty Cycle @ 250 Amps weld output. The unique Power-Plus® patented alternator delivers a smooth weld output. Its brushless design increases efficiency reducing maintenance and extending the life of the machine. Separate windings are used for welding and auxiliary power, offering the highest quality auxiliary power. A rugged 20 HP, 2-cylinder, gas fuel, air cooled Honda engine, powers the generator.



Part No. 1444-0317

Standard features include HF protection, low oil level and battery warning systems, muffler and rain cap, low oil level shutdown, and the idle automatically adjusts for amperage draw and efficient fuel consumption. The Raider 10,000 Pro is designed to deliver the best available welds/auxiliary power for contractors, owners-operators and welding professionals

Features

- 115/230/460 V Auxiliary Power
- 14 Pin Receptacle for remote control
- Dinse Twist Lock Output Terminals
- Honda 20 HP Engine
- One Turn Welding Control Knob
- Low battery charge warning
- Low oil pressure warning
- Low oil level shutdown
- Automatically adjusts to amperage draw
- Stainless Steel Canopy
- Hour meter
- Fuel gauge
- Asynchronous Alternator

Optional Accessories

1444-0105 Stick Kit. Kit includes two 30 ft. #1 cables with electrode holder, work clamp and lugs.

1444-0106 Canvas Cover. Grey cover with Black Thermal Arc Logo.

1444-0107 Dinse Connector. One 50mm male connector.

1444-0108 Hefty II Wire Feeder. wire size range .024" -5/64". Comes equipped with .030", .035", .045" driver roller. Accepts standard Tweco style rear end MIG guns (not included).

1444-0101 Tweco Mig Gun. 250 amp, 15 ft. cable, .035" liner. Fits Hefty II feeder.

1444-0201 Tweco Mig Gun. 400 amp, 15 ft. cable, .045" liner. Fits Hefty II feeder

Engine Type	Idle Speed	Fuel Tank	Oil Capacity	Auxiliary Power	Output Range	Duty Cycle%	Dimensions/ H: 27.9" (710mm) W: 20.9" (530mm) D: 42" (1080mm)
Honda GX620K1VX 2 Cyl. Air cooled, Gas	2,400 RPM	10 gal. (38 L)	0.42 gal. (1.5 L)	460V, 60Hz, 3 Phase, 10kVA 230V, 60Hz, 1 Phase, 8.5kVA 115V, 60Hz, 1 Phase, 8.5kVA	15-250 Amps 16-30 volts	DC 250 Amps @ 100% DC-CV 225 Amps @ 100% DC-CC 250 Amps @ 100%	Weight 542 lbs. (246kg)

FP18 PLASMA CUTTING SYSTEM



Portable Cutting Power

The FP18 portable plasma cutting system operates on standard 115 volt household current. The built-in compressor provides the user maximum portability. The FP18 features Firepower's pilot arc/drag torch system which allows you to cut rusted, painted or coated surfaces, without the need for prior surface preparation and it lets you cut grates, chain link fence and perforated steel with out restarting the torch. The FP18 portable self-contained plasma system is an ideal system for HVAC, auto body, metal roofing, metal building construction as well as many other uses around the farm, ranch and light maintenance shop.

Features

- Operates on standard 115 volt household current
- Built-in air compressor
- Maximum portability
- Cuts mild steel, stainless steel, aluminum, copper or brass
- Firepower drag tip torch system
- Long consumables life/low cost per cut
- Firepower pilot arc system
- Firepower automatic torch restart system
- One year warranty

Comes Complete With

- 20 ft. genuine Firepower drag torch system
- 6 ft. power cord (with plug)
- (2) Cutting tips,Part No. 1445-0031
- (1) Electrodes,Part No. 1445-0016
- Instruction manual (English, French, Spanish)

Part No. 1445-0047

Input Input	Input Current Amps	Air Requirements	Maximum Output Amps	Rated Output Amps	Rated Duty Cycle	Maximum Cutting Capacity	Cutting Speed Mild Steel	Dimensions	Weight
115 V 60 HZ	20	Not Required	18	12	30%	1/8"	20 ga. / 60 IPM 18 ga. / 60 IPM 10 ga. / 12 IPM 1/8" / 9 IPM	H: 10" (250mm) W: 9" (225mm) D: 16" (400mm)	55 lbs. (25kg)

FP38 PLASMA CUTTING SYSTEM



The FP38 portable plasma arc cutting system accepts standard 120V or 230V input power and automatically switches to link up with the available input power. This state of the art inverter powered system is designed to stand up to the toughest environments and to provide precise, reliable cutting power. The FP38's pilot arc/drag torch system allows you to cut rusted, painted or coated surfaces and lets you cut grates, chain link and expanded metal without restarting the torch. The portable FP38, with its rugged roll over construction is perfect for the jobsite, farm, fleet or light industrial use.

Features

- Rugged Design equipped with a rugged case and a protective roll bar to protect the power control components
- Auto Pilot Restart for easy, quick cutting on expanded metal
- Automatic Voltage Selection accepts standard 120 or 230 volt input power without hesitation and automatically switches to link up to the available power input
- Dual voltage operates on standard 120V or 230 current

5



New 1 Torch Design

- Brings a new standard of cut quality and durability to light metal cutting
- Protective Interlock Circuit disables the power supply if the torch consumable parts are incorrectly assembled
- SureLok® Electrode Eliminates tip wobble found in blow-apart torch designs resulting in a cleaner arc and a longer tip life
- Reduced Heat Affected Zone for quality cut results in quicker fit up and better welds for the finished product

Part No. 1445-0085

Input Voltage	Input Current Amps	Input Air Requirements	Maximum Output Amps	Rated Duty Cycle	Maximum Cutting Capacity	Cutting Speed Mild Steel	Dimensions	Weight
120-230 V 50/60 HZ	20 17	5 CFM/55 PSI	30	35% @ 30 Amps	1/2"	3/8"/10 IPM 1/4"/20 IPM 1/8"/75 IPM 1/16"/240 IPM	H: 15.75" (394mm) W: 10" (250mm) D: 21" (533mm)	43 lbs. (94.6kg)

FP55 PLASMA CUTTING SYSTEM



The FP55 230 volt plasma arc cutting system operates on standard 230 volt single phase current. The FP55 features state of the art inverter technology, which gives you superior cutting performance and increases cutting cycle. The FP55's pilot arc/drag torch system allows you to cut rusted, painted or coated surfaces without prior surface preparation and grates, chain link fence and perforated steel without restarting the torch. The FP55 plasma arc cutting system is an ideal system for auto body, farm, ranch, maintenance and fabrication uses.

Features

- Operates on standard 230 volt current
- Inverter technology/increases cutting cycle
- Lightweight and portable
- Cuts mild steel, stainless steel, aluminum, copper or brass
- Firepower drag tip torch system
- Long consumable life/low cost per cut
- Firepower pilot arc system
- Firepower automatic torch restart system
- Built-in adjustable air regulation system
- Built-in air pressure gauge
- Thermostatic heat protection
- Adjustable power output
- One year warranty

Comes Complete With

- 12.5 ft. genuine Firepower drag torch system
- 6 ft. power cord
- (5) 1445-0055 cutting tips
- (3) 1445-0056 electrodes
- (1) 1445-0057 gas distributor
- Instruction manual (English, French, Spanish)

Part No. 1445-0075

Input Voltage	Input Current Amps	Input Air Requirements	Maximum Output Amps	Rated Duty Cycle	Maximum Cutting Capacity	Cutting Speed Mild Steel	Dimensions	Weight
230 V 50/60 HZ	28	2.25 CFM/60 PSI	45	40% @ 35 Amps	1/2"	1/2" / 9 IPM 3/8" / 15 IPM 1/8" / 1000 IPM 16 ga. / 200 IPM	H: 20 3/4" (52mm) W: 9 3/4" (24mm) D: 25" (63mm)	88 lbs. (40kg)

FP82 PLASMA CUTTING SYSTEM



The FP82 features state of the art technology, which gives you superior cutting performance and increased cutting cycle. The FP82's pilot arc/drag torch system allows you to cut rusted, painted or coated surfaces without prior surface preparation and it lets you cut grates, chain link fence and perforated steel without restarting the torch. The FP82 portable cutting system is an ideal system for industrial, farm, ranch, maintenance and fabrication shops wherever industrial cutting power is required.

Features

- Operates on 230 volt single phase or 460 volt three phase current
- Inverter technology/increases cutting cycle
- Lightweight and portable
- Cuts mild steel, stainless steel, aluminum, copper or brass
- Firepower drag tip torch system
- Long consumable life/low cost per cut
- Firepower pilot arc system
- Firepower automatic torch restart system
- Built-in adjustable air regulation system
- Built-in air pressure gauge
- Thermostatic heat protection
- Adjustable power output
- One year warranty

Comes Complete With

- 20 ft. genuine Firepower® drag torch system
- 6 ft. power cord (without plug)
- (5) 1445-0019 cutting tips
- (3) 1445-0007 electrodes
- (1) 1445-0008 gas distributor
- Instruction manual (English, French, Spanish)

Part No. 1445-0002

Input Voltage	Input Current Amps	Input Air Requirements	Maximum Output Amps	Rated Duty Cycle	Maximum Cutting Capacity	Cutting Speed Mild Steel	Dimensions	Weight
230 V 460V 50/60 HZ	56 18	5 CFM/60 PSI	70	40% @ 60 Amps	1 1/4"	1" / 5 IPM 3/4" / 10 IPM 1/2" / 18 IPM 1/2" / 18 IPM 1-1/16" / 300 IPM	H: 20 3/4" (52mm) W: 9 3/4" (24mm) D: 25" (63mm)	88 lbs. (40kg)

REPLACEMENT PARTS - PLASMA ARC

Firepower Plasma Arc Cutting Replacement Consumables

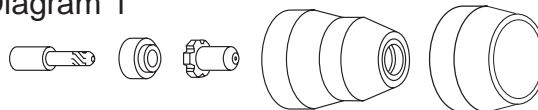
Plasma Cutting System Model	Electrode (5 pk)	Gas Distributor	Cutting Tip (5 pk)	Shield Cup	Heat Shield*	O-Ring	Coil Spring	Stand-off Cutting Guide (Not Shown)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
FP18	1445-0016	1445-0017	1445-0031	1445-0018				
FP25	1445-0016	1445-0017	1445-0015	1445-0018				
FP38	1445-0049	1445-0054	1445-0082	144-50083		sm. 1445-0040 lg. 1445-0048		1445-0100
FP50	1445-0056	1445-0057	1445-0055	1445-0018	1445-0058			
FP55	1445-0081	1445-0098	1445-0097	1445-0099		1445-0004	1445-0023	1445-0100
FP78								
Stand-off Drag Gouging	1445-0007	1445-0008	1445-0014 1445-0019	1445-0024	1445-0029	1445-0004	1445-0023	1445-0102
FP80								
Stand-off Drag Gouging	1445-0081	1445-0008	1445-0014 1445-0019	1445-0024	1445-0029	1445-0004	1445-0023	1445-0102
FP82								
Stand-off Drag Gouging	1445-0081	1445-0008	1445-0014 1445-0019	1445-0024		1445-0004	1445-0023	1445-0102

*Heat shield (E) not shown



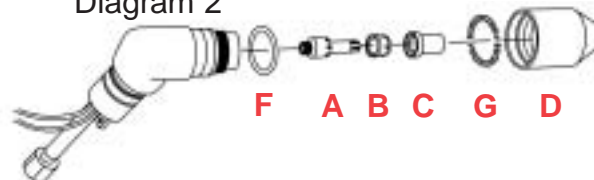
A B C D E

Diagram 1



A B C D E

Diagram 2



F A B C G D

*Heat shield (E) not shown

5

ACCESSORIES - PLASMA ARC



1445-0045

ACCESSORY CIRCLE GUIDE

Model	Part #	Description
CG-1	1445-0030	Circle Guide



1445-0020 & 1445-0021

ACCESSORY AIR FILTER

Model	Part #	Description
SKF-FP	1445-0020	Single Stage Air Filter Assembly
RC-AF	1445-0021	Replacement Air Filter Cartridge

150 SERIES OXY-ACETYLENE OUTFITS



0384-0656



These "user friendly" outfits offer a complete system for smaller welding and cutting jobs. The 150 series is best suited for autobody repair, motor enthusiasts, "DIY users" and first time welders.

- 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.
- Tri-Lingual packaging appeals to broad customer base.
- 2 year limited warranty.
- U.L. listed.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0384-0656	150-510-FSDLX	Dualine hose 1/4" x 10' grade T Spark Lighter (Single Flint) Welding Goggles/Shade #5

250 SERIES OXY-ACETYLENE OUTFITS



0384-0240



Equipped to provide broad versatility for cutting, welding, brazing and heating needs. The capacity of the 250 Series makes this outfit ideal for farm, auto mechanics, shop, maintenance/repair and many other metalworking needs.

- 250 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 1-1/4" and cut to 6".
- 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.
- 2 year limited warranty.
- U.L. listed.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0384-0240	250-510-FSDLX	Dualine hose 1/4" x 15' grade T Spark Lighter (Single Flint) Welding Goggles/Shade #5

350 SERIES OXY-ACETYLENE OUTFITS



0384-0250

The 350 series outfits are made especially for the toughest needs - construction, heavy fabrication, large farm implement repair and all other torch jobs. The larger 350 Regulators, Hose, Handles, Attachment, Tips and Nozzles get higher gas volumes to the work. Thus, the 350 Series gives you extended capability for welding, brazing, cutting and multiflame heating.

- 350 Series outfit includes a #2 welding nozzle and #0 cutting tip that welds up to 1/8" and cuts to 1/2". Optional tips allow you to weld to 2" and cut to 8".
- Built-in flashback arrestors.
- Torch handle includes built-in check valves for added protection (safety) against "reverse flow of gases."
- Tip Cleaner.
- 2 year limited warranty.
- Solid brass and stainless steel construction provide years of trouble-free performance.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0384-0250	350-510-FSDLX	Dualine hose 1/4" x 20' grade T Spark Lighter (Single Flint) Welding Goggles/Shade #5

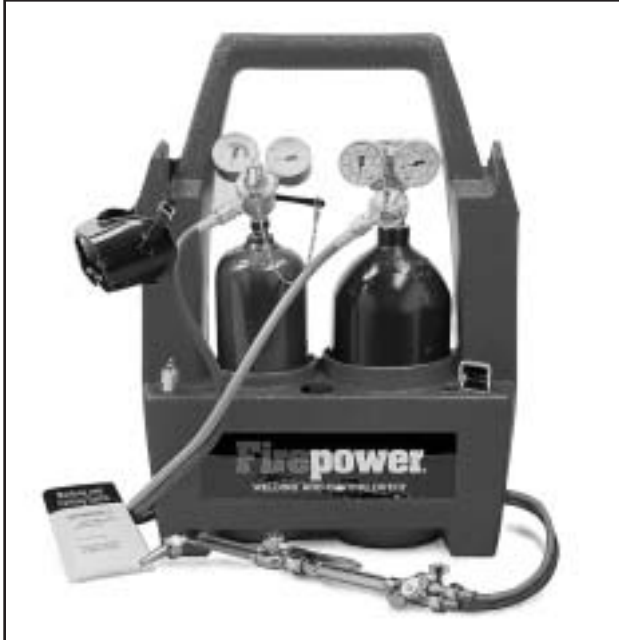


WELDING



CUTTING

PORTABLE OXYGEN-ACETYLENE TOTE OUTFITS



Everything you need except the "gas." These lightweight outfits allow you to take the torch to the job whether it is in the field or just around the yard. Ideal applications include plumbing, ranching, farming and HVAC. Takes the 5,620° flame to the job.

- Totes are complete with:
- WH260C Series Torch handle with built-in reverse flow check valves Flashback Arrestors.
- 150 Series Cutting attachment.
- #2 Welding nozzle welds to 1/8".
- #0 Cutting tip cuts to 1/2".
- 150 Series Oxygen/Acetylene regulators (Rear Entry Connections.)
- 3/16" x 12.5' dualine hose, goggles/shade #5 and striker.
- Tip-nozzle flow chart.
- Tri-lingual instructions.
- Cylinder wrench with chain.
- Rugged molded plastic carry case.
- 10 cu. ft. "MC" acetylene cylinder and 20 cu. ft. "R" oxygen cylinder (shipped empty).
- U.L. listed.
- Weight 36 lbs., 2 year limited warranty.



0384-0696

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0384-0696	TK-5-FP	1/8" (Grey Tote)
0384-0649	TK-4-FP	1/8" (Red Tote)

OXY-ACETYLENE CYLINDER TRUCK OUTFITS



0384-0690



0384-0691

Another option to the portable oxygen/acetylene systems is the cylinder truck. The larger cylinders allow longer work time between cylinder exchanges (refills).

- Ideal applications for DIY, farm, automotive, shop or industry.
- The 150 truck comes with 40CF acetylene cylinder and a 55CF oxygen cylinder and a wheeled truck. Approx. 1 hour, 25 minutes of cutting time.
- The 250 truck comes with a 75CF acetylene cylinder and a 80CF oxygen cylinder and a wheeled truck. Approx. 2 hours of cutting time.
- Both 150 and 250 trucks are shipped in two cartons.
- The 150 outfit comes with a "B" 520 cylinder to a 510 acetylene regulator adaptor.
- Perfect for the shop or maintenance department.

ORDERING INFORMATION

Part #	Model #	Outfit	Oxygen	Acetylene
0384-0690	CK-5-FP	150 Deluxe	55CF	40CF
0384-0691	CK-6-FP	250 Deluxe	80CF	75CF

SMP-31 AIR-FUEL SELF-LIGHTING TORCHES



0387-0463



0387-0464

- 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.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0387-0463	SMP-31	Propane/MAPP® Self Lighting Torch
0387-0464	SMPK-31	Propane/MAPP® Self Lighting Torch Kit with Propane Tank

SMP-41 AIR-FUEL SELF-LIGHTING SWIRL TORCH



0387-0465



- 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.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0387-0465	SMP-41	Propane/MAPP® Self Lighting Swirl Combustion Torch

PLUMBER'S REPAIR KIT



0387-0473

Multi-purpose repair kits are designed for all soldering applications including do-it-yourself, farm, industrial, automotive and many others. Each kit contains a P-10 Torch that features solid brass construction and a brass control knob for lasting durability. A unique flame control valve allows precise heat adjustment on every application.

Plumber's Repair Kit Includes:

- P-10 solid brass pencil torch unit
- 14.1 oz. propane tank
- General purpose soldering flux
- Lead free wire solder
- 6" flux brush
- Complete operating & safety instruction booklet
- Everything you need to fix a leaking copper tube or joint
- U.L. Listed.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0387-0473	PRK-15	Plumber's Repair Kit

AIR-FUEL HAND TORCH KITS



0387-0470

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

ORDERING INFORMATION

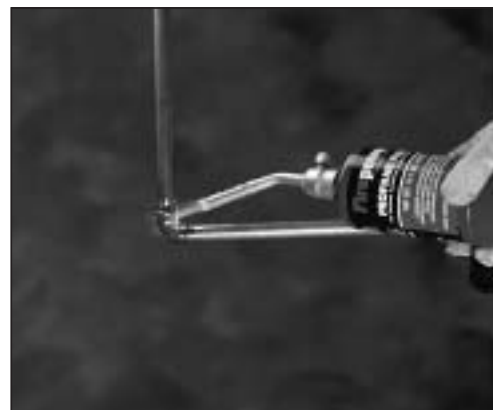
Part #	Model #	DESCRIPTION
0387-0470	P-10	Propane Torch
0387-0471	PK-10	Standard kit includes torch & 14.1 oz. propane tank
0387-0472	PK-11	Deluxe kit - includes torch, 14.1 oz. propane tank, striker and flame spreader



0387-0471



0387-0472



DISPOSABLE AIR-FUEL TANKS AND STAND



0387-0436

0387-0437

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0387-0436	FP-1	14.1 oz. Propane Tank, 8.65 CF, CGA 600
0387-0437	FM-1	1 lb. MAPP® Tank, 9.65 CF, CGA 600

SWIRL COMBUSTION AIR-FUEL HAND TORCH KITS & ACCESSORIES



0387-0400

Hand Torch Kits For MAPP® or Propane

- 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.

ORDERING INFORMATION

Part #	Model #	DESCRIPTION
0387-0400	MP-90	Hand torch with regulator and MPT-3 tip

VERS-A-FLAME OUTFITS ALL SEASON TORCH SYSTEM



- 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.
- Complete outfit is U.L. listed.
- 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.
- 2 year limited warranty.

ORDERING INFORMATION

Part #	Model #	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.

6



0384-1260

POWDER SPRAY TORCH OUTFIT



Comes with "How To" Video

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.



POWDER SPRAY TORCH

Part #	Model #	DESCRIPTION
0384-1266	FPSK-260	* Complete Powder Spray Torch Kit

* "How to" Video (VHS) included with each outfit.

BUILD-UP POWDERS

Part #	Model #	DESCRIPTION
1440-0040	FPBP-22	1# Bottle: Used for... Shaft build-up; cast iron repair, cracked exhaust manifolds.
1440-0042	FPBP-40	1# Bottle: Used for... Bearing surfaces, gear teeth, shaft build-up. Machinable.

WEAR POWDERS

Part #	Model #	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.

ONE PIECE CUTTING TIPS



**MODEL 3-101 CUTTING TIP
ACETYLENE**

FIREPOWER - VICTOR STYLE ACETYLENE 150/250 SERIES CUTTING TIPS

Tip Model 3-101 for CA 150/250 Cutting Attachments

Part #	Model#	Size	Cuts up to:
0331-0179	00-3-101-FP	00	1/4"
0331-0180	*0-3-101-FP	0	3/8"-1/2"
0331-0181	*1-3-101-FP	1	3/4"
0331-0182	*2-3-101-FP	2	1"
0331-0183	*3-3-101-FP	3	2"
0331-0184	*4-3-101-FP	4	3"
0331-0185	5-3-101-FP	5	4"

**These sizes represent 90% of tips sold.*



**MODEL 1-101 CUTTING TIP
ACETYLENE**

FIREPOWER - VICTOR STYLE ACETYLENE 350 SERIES CUTTING TIPS

Tip Model 1-101 for CA 350 Cutting Attachments
and ST900FC Straight Cutting Torch

Part #	Model #	Size	Cuts up to:
0330-0618	000-1-101-FP	00	1/8"
0330-0619	00-1-101-FP	00	1/4"
0330-0620	*0-1-101-FP	0	3/8"-1/2"
0330-0621	*1-1-101-FP	1	3/4"
0330-0622	*2-1-101-FP	2	1"
0330-0623	*3-1-101-FP	3	2"
0330-0624	*4-1-101-FP	4	3"
0330-0625	5-1-101-FP	5	4"

**These sizes represent 90% of tips sold.*



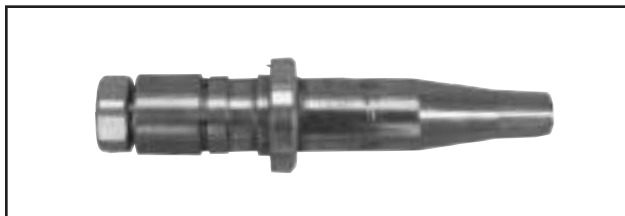
**MODEL 0333-0409 GOUGING TIP
ACETYLENE**

FIREPOWER - VICTOR STYLE ACETYLENE GOUGING TIPS

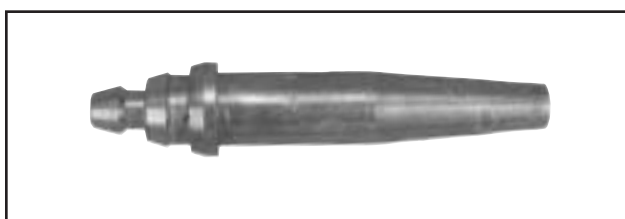
Victor® Style

Part #	Description
0333-0408	0-1-118
0333-0409	2-1-118

CUTTING TIPS



MODEL 0387-1234 CUTTING TIP



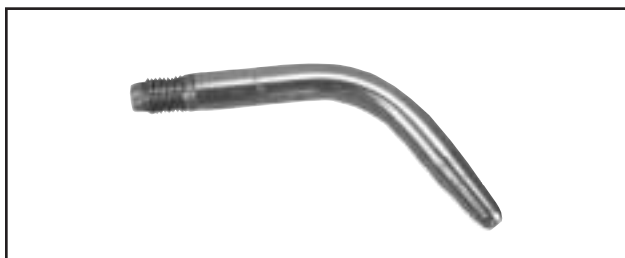
MODEL 0387-1227 CUTTING TIP



MODEL 0387-1249 CUTTING TIP



MODEL 0387-1259 CUTTING TIP



MODEL 0387-1210 CUTTING TIP

SMITH STYLE CUTTING TIPS

Part #	Description
0387-1233	SC-12-#1
0387-1234	SC-12-#2
0387-1236	MC-12-#1
0387-1237	MC-12-#2
0387-1238	MC-12-#3

MISCELLANEOUS AIRCO MD/PIEROX CUTTING TIPS

Part #	Description
0387-1227	Airco MD #1
0387-1228	Purox #3
0387-1229	Purox #4

MARQUETTE STYLE MEDIUM/HEAVY DUTY (Conical Seat)

Part #	Description
0387-1249	1-Marquette® style
0387-1250	2-Marquette® style
0387-1252	1-Marquette® style 3 hole
0387-1253	2-Marquette® style 6 hole

STAR JET/SUPER JET, HARRIS 6290 STYLE, MARQUETTE (Flat Seat Design)

Part #	Description
0387-1259	#1 flat seat style Regular
0387-1260	#2 flat seat style Regular
0387-1261	#1 flat seat style Heavy PH
0387-1262	#2 flat seat style Heavy PH
0387-1263	#4 flat seat style Heavy PH

MARQUETTE® STYLE (Mixer Not Included)

Part #	Description
0387-1210	Star Jet welding tip #1
0387-1211	Star Jet welding tip #2

TWO PIECE CUTTING TIPS



TWO PIECE CUTTING TIPS USED WITH PROPANE AND NATURAL GAS ONLY

- General purpose hand and machine cutting tips.
- Two piece, brass spline and copper construction.
- Medium preheats
- Flame tested to ensure rated cutting performance.
- Use with Natural Gas and Propane (LP).



MODEL 3-GPN CUTTING TIP

FIREPOWER - VICTOR STYLE 150/250 SERIES CUTTING TIPS

Tip Model 3-GPN for CA 150/250 Cutting

Attachments

Part #	Model#	Size	Cuts up to:
0333-0550	0-3-GPN-FP	00	3/8"
0333-0551	1-3-GPN-FP	1	3/4"
0333-0552	2-3-GPN-FP	2	1"
0333-0553	3-3-GPN-FP	3	2"



MODEL GPN CUTTING TIP

FIREPOWER - VICTOR STYLE 350 SERIES CUTTING TIPS

Tip Model GPN for CA 350 Cutting Attachments and ST900FC Straight Cutting Torch

Part #	Model #	Size	Cuts up to:
0333-0559	00-GPN-FP	00	1/4"
0333-0560	0-GPN-FP	0	3/8"
0333-0561	1-GPN-FP	1	3/4"
0333-0562	2-GPN-FP	2	1"
0333-0563	3-GPN-FP	3	2"

WELDING NOZZLES 150/250/350 SERIES NOZZLES



WELDING NOZZLES FOR USE WITH ACETYLENE ONLY

- General purpose welding and brazing.
- Complete with brass universal gas mixer and elbow tip.
- One piece copper elbow construction
- 100% flame tested.
- Double o-ring seal, hand tight only.



MODEL W-1-FS

150/250 SERIES WELDING NOZZLES

For use with WH260C torch handle.

Part #	Model#	Size	Metal Thickness
0324-0149	00-W-1-FS	00	1/16"-3/64"
0324-0150	0-W-1-FS 0	1/32"-5/64"	
0324-0151	1-W-1-FS 1	13/64"-3/32"	
0324-0152	2-W-1-FS 2	1/16"-1/8"	
0324-0153	3-W-1-FS 3	1/8"-3/16"	
0324-0154	4-W-1-FS 4	3/16"-1/4"	
0324-0155	5-W-1-FS 5	1/4"-1/2"	



MODEL W-FS

350 SERIES WELDING NOZZLES

For use with WH360C torch handle.

Part #	Model #	Size	Metal Thickness
0323-0360	0-W-FS	0	1/32"-5/64"
0323-0361	1-W-FS	1	3/64"-3/32"
0323-0362	2-W-FS	2	1/16"-1/8"
0323-0363	3-W-FS	3	1/8"-3/16"
0323-0364	4-W-FS	4	3/16"-1/4"
0323-0365	5-W-FS	5	1/4"-1/2"

MULTIFLAME HEATING NOZZLES 150/250/350 SERIES NOZZLES



MULTIFLAME HEATING NOZZLES FOR USE WITH ACETYLENE OR HYDROGEN GASES.

- Multi-flame heating head for pre-heating, straightening, bending, forging, etc..
- #6 nozzles are the most popular sizes for both the WH260C and the WH360C torch handles.
- #8 nozzles must be used on an acetylene manifold system to keep within withdrawal rates, (see warning below).

Warning: At no time should the withdrawal rate of an individual acetylene cylinder exceed 1/7 of the cylinder contents per hour. If additional flow capacity is required, use an acetylene manifold system of sufficient size to supply the necessary volume.



MODEL 6MFA-1-FS

150/250 SERIES MULTIFLAME NOZZLES

For use with WH260C torch handle.

Part #	Model#	Torch Handle
0324-0143	4MFA-1-FS	WH260C-FS
0324-0146	6MFA-1-FS	WH260C-FS
0324-0112	8MFA-1-FS	WH260C-FS

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MODEL 6MFA-FS

350 SERIES MULTIFLAME NOZZLES

For use with WH360C torch handle.

Part #	Model#	Torch Handle
0323-0270	4MFA-FS	WH360C-FS
0323-0271	6MFA-FS	WH360C-FS
0323-0272	8MFA-FS	WH360C-FS

150/250 SERIES REGULATORS



0781-8960



0781-9111

0781-9112



0781-9171

0781-9172

Rugged and dependable Firepower pressure Regulator units cover a full range of gas controlled needs. These compact single stage regulators are perfect for welding and cutting applications for farm, construction, shop, or "DIY" needs. The clamshell packaging is pegable of free standing. All regulators are U.L. listed

150 SERIES

- Solid brass construction.
- 2"- 50mm easy to read dual (PSI &kPa) scale gauges.
- kPa = metric

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

- Solid brass construction & stainless steel construction.
- 2"- 50mm easy to read dual (PSI &kPa) scale gauges.
- Forged brass body and bonnet.
- kPa = metric

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 (Heavy Duty)

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



0781-2733

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.

ORDERING INFORMATION

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

FLOWGAUGE REGULATORS



0781-1102

REGULATOR WITH TRADITIONAL DELIVER GAUGE

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

ORDERING INFORMATION

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

REGULATORS/GAUGES



0387-1232

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-CO ₂ regulator CGA 580



1424=0147



REPLACEMENT GAUGES 1 1/2"

Part #	DESCRIPTION
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 Lexan® crystals	



1424=0405



150 SERIES GAUGES 1 5/8"

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	



1424=0014



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	



1424=0290



350 SERIES GAUGES 2 1/2"

Part #	DESCRIPTION
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 Lexan® crystals	

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CUTTING ATTACHMENTS CA25, CA35



0381-0744

0381-0740

- 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

See pages 36-38 for complete tip information.

350 SERIES CUTTING ATTACHMENT

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

See pages 36-38 for complete tip information.

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WELDING TORCH HANDLES WH260C, WH360C



0382-0143



0382-0136

- 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

TORCH CONVERSION KIT



0384-0904

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.

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

Manufactured by Victor® Equipment Company

STRAIGHT CUTTING TORCH ST900FC-FS



0381-0751

- 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-C STRAIGHT CUTTING TORCH

Part #	Model#	Description
0381-0751	ST900C-FS	Straight Cutting Torch 90° head, length 21".

Uses 350 Series cutting tips,
Series 1-101 and Series GPN.
See pages 36-38 for complete tip information.

OXY-ACETYLENE ACCESSORIES



0656-0016 0656-0017 0656-0015

- Provide the 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
0656-0017	FPKC	Kwik-connect torch fitting set, “B” 9/16”-18 threads



0328-0017

UNIVERSAL MIXER

Part #	Model #	DESCRIPTION
0328-0017	4 UM-FS	150/250 Series Universal Mixer

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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.



1412-0020 1412-0012 1412-0021

WELDING HOSE

Model	Size	Grade
1412-0012	3/16” x 12 1/2 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

CYLINDERS



0916-0032



0916-0033

CYLINDERS

Part #	Model #	DESCRIPTION
0916-0032	AC-MC-FB	10CF Type MC Acetylene CGA200
0916-0033	OX-20-FB	20CF Type R Oxygen CGA540

CYLINDER WRENCHES



1420-0293

1420-0294

CYLINDER WRENCHES

Part #	Model #	DESCRIPTION
1420-0293	W-9-FP	9 Way Cylinder Wrench
1420-0294	CW-FP	MC & B Wrench w/chain

CYLINDERS TOTE



1421-0054

CYLINDER TOTE

Part #	Model #	DESCRIPTION
1421-0054	RTC-1-FP	Red Tote Case

ARC WELDING ELECTRODES



Firepower Arc Welding Electrodes

Type 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

Type 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

Type 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

Type 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: Arc Welding Electrodes

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.

“JOB-PACK” ARC WELDING ELECTRODES



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



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

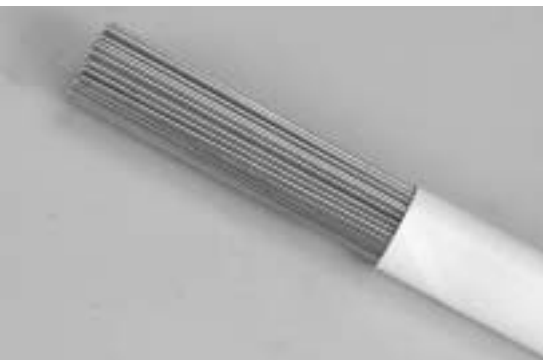
GAS BRAZING RODS



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.
1440-0431	3/32" x 14" 1 lb.

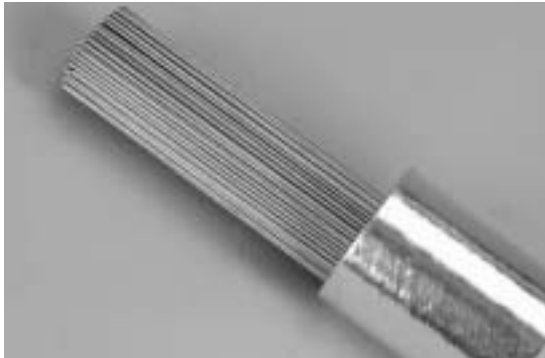


Bare brazing rod low fuming highest quality. Balanced zinc and copper alloy. Excellent for brazing fenders, radiators, water tanks and sheet metal. 63,000 PSI tensile strength.

MANGANESE BRONZE BARE GAS RODS

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

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.

CAST IRON 55 ELECTRODES



1440-0083

- 55% Nickel.
- For welding cast iron.
- Deposits are machinable.
- DC reverse polarity preferred.
- 1/8" x 14" all positions electrodes.

CAST IRON 55 ELECTRODES

Part #	Pack Size	Electrode Description
1440-0083	1lb. tube	1/8" Castweld/Cast Iron Repair



308 STAINLESS STEEL ELECTRODES



1440-0165

- 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	1lb Box	3/32" x 14" Electrodes
1440-0155	1lb Box	1/8" x 14" Electrodes
1440-0156	5 lb Box	1/8" x 14" Electrodes



1440-0155/1440-0156

BRAZING & SILVERFLOW RODS



1440-0025

- 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



1440-0026

- 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

ENiFeCI NICKEL 55 CAST IRON ELECTRODES (Machinable)



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"

NICKEL 55 CAST IRON

Part #	Description
1440-0440	3/32" Job pack (3 rods)
1440-0083	1/8", 1 lb.

Tensile strength 70,000 PSI. Elongation 12%

ESt CAST IRON ELECTRODES (Non-Machinable, Steel Core)



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

CAST IRON

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

Tensile strength 62,000 PSI. Elongation 20%

ENiCI PURE NICKEL 99% CAST IRON ELECTRODES (Machinable)



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"

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 lb.

Tensile strength 55,000 PSI. Elongation 10%

E308L-16 STAINLESS STEEL ELECTRODES



All position, high strength electrode produces unique and superior performance for joining all types of steel with outstanding strength and elongation. Produces an exceptionally smooth arc and smooth beads. Corrosion resistant, crack resistant even on high carbon, manganese, stainless and dissimilar steels. Tensile strength 128,000 PSI. Elongation 32%.

Current: AC/DC - DC+ recommended

	AMPS	DIA.
Amperage Recommendations:	35-70	3/32"
	60-110	1/8"

E308L-16 STAINLESS STEEL

Part #	Description
1440-0165	3/32" 1 lb.
1440-0155	1/8" 1 lb.
1440-0156	1/8" 5 lb.

E4043 ALUMINUM ARC ELECTRODES



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+

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

ALUMINUM ARC

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

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

	AMPS	DIA.
Amperage Recommendations:	25-90	1/16"

E6024 - QUICK START

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

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.

Current: AC

CUTTING

Part #	Description
1440-0426	1/8" 1 lb.

ER70S-6 MIG WIRE SOLID



SOLID WIRE

- 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"
1440-0447	33 lbs.	.045"

E71T-GS FLUXED CORED



FLUX CORED WIRE

- 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"
1440-0237	25 lbs.	.035"

ER 308L MIG WIRE STAINLESS STEEL



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



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#	.030"
1440-0241	1#	.035"
1440-0445	3#	.035"

SOLDERS

Solid Wire Solder:

Is a general-purpose solder for non-electrical applications. Used with a paste or liquid flux. Applications radiator repair and repairs.

Solid Wire		
Model	Item	Weight
1423-1107	Sold Wire, Comm.	1/8" x 1 lb.
1423-1105	Sold Wire, 40/60	1/8" x 1/4 lb.
1423-1103	Sold Wire, 50/50	1/8" x 1/2 lb.

Lead Free Solder:

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

Lead Free Solder		
Model	Item	Weight
1423-1117	Lead Free, 95/5	1/8" x 1/4 lb.
1423-1116	Lead Free, 95/5	1/8" x 1/2 lb.
1423-1115	Lead Free, 95/5	1/8" x 1 lb.

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).

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:

Used for electrical applications. Completely non-corrosive and electrically non-conductive.

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 AND NOZZLE SHIELD AND DIP

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.

Nozzle Dip

- Safe, non-toxic - contains no silicones
- Non-flammable and odorless

Model	Item
1440-0297	Nozzle Dip, 16 oz.

Anti-Spatter



Nozzle Dip



FLUXES AND PASTES

Aluminum Flux:

An excellent cleaning agent for use with bare aluminum rod. Helps prevent welds from collapsing.

Brazing Flux:

Allows for clean, solid brazing jobs with all types of torches.

Model	Item
1423-1118	Aluminum Flux, Powder, 4 oz.
1423-1120	Brazing Flux, Powder 16 oz.

Aluminum Flux



Brazing Flux



Liquid Soldering Flux:

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

LIQUID SOLDERING FLUX

Model	Item	Weight
1423-1111	Soldering Flux	2 oz.
1423-1123	Soldering Flux	16 oz.
1423-1122	General Purpose Flux	2 oz.

Soldering Paste:

General-purpose paste flux.

SOLDERING PASTE

Model	Item	Weight
1423-1101	Soldering Flux	2 oz.

Soft Silver Solder Kit with Flux:

A very high-grade soft solder that contains silver and no lead, zinc or cadmium. Cheaper and easier to apply than silver brazing alloy.

Application: Brass, Copper, Nickel, Stainless Steel, Chrome Plate (Non-toxic).

- Size: 78" x 1/6 Dia.
- PSI: 18,000
- Melt: 430°F

SOFT SILVER SOLDER KITS

Model	Item
1423-1119	Kit with Flux, 1/16" x 36"
1423-1127	Kit with Flux, 1/16" x 78"



WELDER'S GLOVES

1423-0001 - *Deluxe Welder's Gloves, Gray*

For protection and comfort at the lowest cost

- Selected "Pearl Gray" Shoulder Split Leather
- Fully Weltd Seams
- Lock-Stitch Construction
- One Piece Back
- Gunn Cut with Wing Thumb
- Full Sock-Type Lining
- Large Size
- Length: 14"



1423-0001

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

- Top Quality "Russet" Select Split Leather
- One Piece Back with Thumb Strap
- Gunn Cut with Straight Thumb
- Lock-Stitch Construction
- Fully Weltd Seams
- Full Sock-Type Lining
- Turned Cuff for Safety
- Kevlar Sewn
- Large Size
- Length: 14"



1423-0051

1423-4158 - *Deluxe Welder's Gloves*

- Top Quality "Red/Gray" Select Split Leather
- Felt Lining for High Heat Applications
- Lock-Stitch Construction
- Fully Weltd Seams
- One Piece Back with Thumb Strap
- Kevlar Sewn
- Gunn Cut with Wing Thumb
- Turned Cuff for Safety
- Length: 14"



1423-4158

1423-4133 - *Premium Welder's Glove*

- Premium Quality "Blue" Shoulder Split Leather
- Special Thermal Lining Resists Heat
- One Piece Back with Wing Strap
- Fully Weltd Seams
- Lock-Stitch Construction
- Turned Cuff for Safety
- Kevlar Sewn
- Length: 14"



1423-4133

1423-4128 - *MIG/TIG Welder's Gloves*

- "Red, Black & Gray Palm" Top Grain Leather
- Exceptionally soft and Pliable
- Gunn Pattern with Straight Thumb
- Weltd Thumb Crotch
- Unlined for Maximum Dexterity
- Kevlar Sewn
- Length: 11"



1423-4128

WELDER'S CLOTHING

1423-4131 - *Welder's Cape Sleeve, Sateen, Large*

- 9.5 oz. Visual Green Sateen
- Full 30" Length
- Snap Front & Stand-Up Collar
- Full Length Sleeves - Snap Cuff



Cape Sleeve 1423-4131

1423-4132 - *Welder's Bib, Sateen*

- Snap-on Type
- 20" Length



Welders Bib 1423-4132

1423-4157 - *Bib Apron, Sateen, Large*

- 9.5 oz. Visual Green Sateen
- Sewn Ties - Standard



Welders Apron 1423-4157

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.

Welding Blanket 1423-1404

WELDER'S CAPS



Model	Size
Red Polka Dot Welders Cap	
1423-4134	7-1/4"
1423-4135	7-3/8"
1423-4136	7-1/2"
Green Polka Dot Welders Cap	
1423-4137	7-1/4"
1423-4138	7-3/8"
1423-4139	7-1/2"
Wild Flower Dot Welders Cap	
1423-4140	7-1/4"
1423-4141	7-3/8"
1423-4142	7-1/2"

Welder's Skull Cap, Quilted - 1423-4102

- Black Twill quilted with red stitching. Flame retardant
- Size 7-1/4"

Welder's Beanies, Large - 1423-4143

- Large

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 4-1/4"*

- 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 4-1/4"*

- 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



ELASTIC HEADBAND



1423-4125 - *Goggle Elastic Headband*

- Fully adjustable, High quality, 1/2" elastic headband with slides
- 4 pieces per Pack

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

REPLACEMENT HEADGEAR



1441-0010 - *Replacement Headgear*

- Ratchet headgear with browguard for face shield

SAFETY GLASSES

Optimax™, 58 mm, Safety Glasses

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

Model	Lens Shade
1441-3431	Clear
1423-4119	Dark Green
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
1441-3432	Clear
1441-3434	Gray
1441-3433	Mirrored
1423-4123	Dark Green
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



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 4-1/4"
1441-0026	Fixed Front Helmet, 5-1/4" x 4-1/2"
1441-0025	Lift Front Helmet, 2" x 4-1/4"
1441-0059	Auto Darkening Helmet, 2" x 4-1/4" Fixed Shade #10, 4.9" View
1441-0057	Auto Darkening Helmet, 5-1/4" x 4-1/2" Variable Shade, 9.8" View
1423-4110*	Headgear for Eclipse™ Helmet

* 1423-4100 not shown



1441-0024



1441-0026



1441-0025



1441-0059



1441-0057

ECONOMY, WELDING HELMETS & HAND HELD WELDING SHIELD

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

Model	Item
1441-0046	Flip-up Lens Cartridge, for 2" x 4-1/4" Helmet
1423-4178	Flip-up Lens Cartridge, for 4-1/2" x 5-1/4" Helmet
1423-4100	Hand Welding Shield, 2" x 4-1/4"
1441-0023	Fixed Front Helmet, 2" x 4-1/4" Economy, Black
1441-0037	Lift/Fixed Front Combo Helmet, 2" x 4-1/4", Black
1423-4146	Silverguard Helmet, Lift Front 2" x 4", Silver
1441-0038	Fixed Front Helmet, 4-1/2" x 5-1/4" Economy, Black
1441-0004	Lift/Fixed Front Combo Helmet, 4-1/2" x 5-1/4", Black
1441-0042	Adjustable Ratchet Headgear



1423-0046



1423-4178



1423-4100



1441-0023



1441-0037



1423-4146



1441-0038

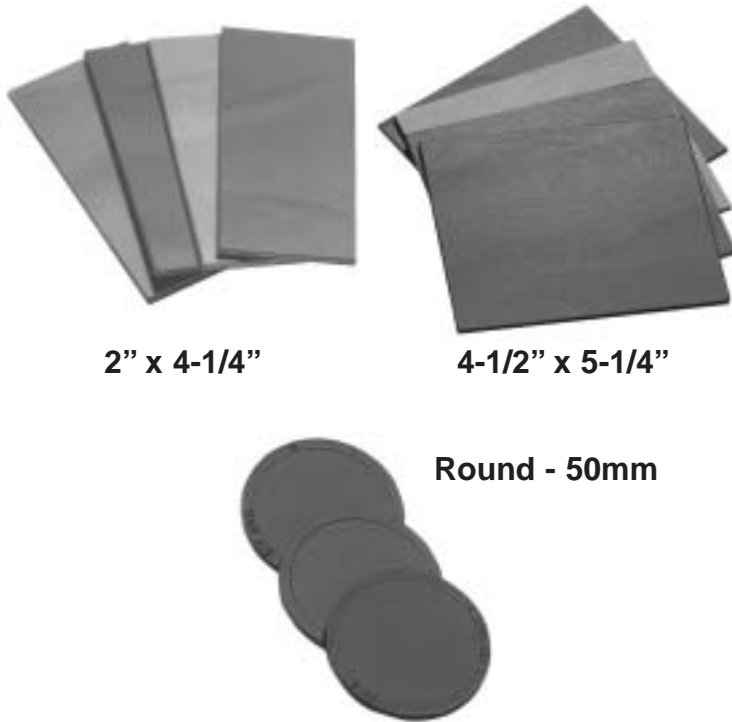


1441-0004



1441-0042

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.

ModelShade	
Filter Plate 2" x 4-1/4"	
1423-4124	Shade #5
1423-4145	Shade #9
1441-0047	Shade #10
1423-4166	Shade #12
Filter Plate 4-1/2" x 5-1/4"	
1423-4103	Shade #9
1441-0049	Shade #10
1423-4106	Shade #12
50mm Round - (Pair Pack)	
1423-4116	Shade #5

POLYGOLD™, POLYCARBONATE GOLD COATED LENS



- Gold coated filter lens stays much cooler than a glass plate, thus helps to protect the eyes from Re-radiated Heat-induced Damage.
- Reflects heat and harmful infrared rays.
- Special hard-coated polycarbonate is abrasion and breakage resistant.
- Meets/Exceeds ANSI Z87.1, all current applicable Federal Specs., and various International Standards.

Model Shade	
PolyGold™ Lens - 2" x 4-1/4"	
1423-4165	Shade #9, Polycarbonate Gold Coated Lens
1423-4118	Shade #10, Polycarbonate Gold Coated Lens
1423-4167	Shade #12, Polycarbonate Gold Coated Lens
PolyGold™ Lens - 4-1/2" x 5-1/4"	
1423-4169	Shade #9, Polycarbonate Gold Coated Lens
1423-4170	Shade #10, Polycarbonate Gold Coated Lens
1423-4171	Shade #12, Polycarbonate Gold Coated Lens



4-1/2" x 5-1/4"

POLYMAG™, MAGNIFIER LENS, 2" X 4-1/4"

Model	Diopter
PolyMag™ Magnifier Lens	
1423-4108	1.5 Diopter
1423-4109	2.0 Diopter

PolyMag™
Magnifier Lens



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.

Model	Size
Polycarbonate Cover/Safety Plate	
1441-0048	2" x 4-1/4"
1423-4107	2" x 4-1/4", 3 pc./Pk.
1441-0050	4-1/2" x 5-1/4"
1423-4129	50mm, Clear, 1 Pair/PK.



1441-0050



1441-0048



1423-4129

CYLINDER CARTS

- Different models for holding small to large cylinders
- Heavy duty, all-steel construction for jobs in field or shop
- Recommended for Auto Repair Work, Service Station, Hobbyists, Plumbers, Repairmen, Maintenance Departments, Small shops, Farm and Garages with Hard Surface Floors

Model	Item	Cylinders (Acetylene-Oxygen)	Base Dimensions	Net/Gross Weight (Lbs.)
1423-1317	Standard Cylinder Truck, 6" wheels	40/60-60/90	8.25" x 16"	17.25 / 21.00
1421-0038	Medium Duty, Cylinder Truck, 8" wheels	40/120-122/160	8.25" x 19"	29.00 / 33.00
1423-1316	Heavy Duty, Cylinder Truck, 12" wheels	300- 244/300	12" x 21"	44.00 / 51.00



Standard



Medium Duty



Heavy Duty

BRASS FITTINGS

Model	Item	Pack
Hose Nuts - "B" Size		
1423-1320	Brass Nut - Oxygen R.H.	2pc./Pk.
1423-1321	Brass Nut- Acetylene/ Fuel Gases L.H.	2pc./Pk.
Barbed Hose Nipples - "B" Size		
1423-1318	Brass Hose Nipple, 3/16" I.D. Hose	2pc./Pk.
1423-1319	Brass Hose Nipple, 1/4" I.D. Hose	2pc./Pk.
Brass Hose Union - "B" Size		
1423-1304	Hose Union - Oxygen R.H.	1pc./Pk.
1423-1305	Hose Union - Acetylene/ Fuel Gases L.H.	1pc./Pk.
1423-1347	Hose Union Set, Oxygen R.H. & Acetylene/ Fuel Gases L.H. (1423-1304 & 1423-1305)	1Set/Pk.
Hose Connectors, "B" Size		
Female Swivel Nut and Barbed Hose Nipple		
1423-1300	1/4" Oxygen - (Nipple + Nut), Swivel to 1/4" Hose, R.H.	1pc./Pk.
1423-1301	1/4" Acetylene/Fuel Gases - (Nipple + Nut), Swivel to 1/4" Hose, L.H.	1pc./Pk.
Hose Braces, Oval		
1423-1346	Hose Brace, 3/16"	4pc./Pk.
1423-1345	Hose Brace, 1/4"	4pc./Pk.
Hose Ferrules		
1423-1315	Ferrule for 3/16" Hose	4pc./Pk.
1423-1314	Ferrule for 1/4" Hose	4pc./Pk.
Nut and Nipple		
1423-1330	Inlet Nut (Oxygen), CGA 540, R.H., Female	1pc./Pk.
1423-1332	Inlet Swivel Nipple, (Oxygen), CGA 540, 1/4" NPT	1pc./Pk.
1423-1331	Inlet Nut (Acetylene), CGA 510, L.H., Male	1pc./Pk.
1423-1333	Inlet Swivel Nipple, (Acetylene), CGA 500, 1/4" NPT	1pc./Pk.
Splicers		
1423-1311	Hose Splicer, 3/16"	2pc./Pk.
1423-1310	Hose Splicer, 1/4"	2pc./Pk.
Couplers "B" Size to "A" Size		
1423-1336	Couplers "B" to "A" (Pair)	1pr./Pk.



Hose Nuts



Hose Nipples



Hose Union



Hose Connectors



Hose Braces



Hose Ferrules



Nut & Nipple



Splicers



Couplers

HOSE KITS

Hose Splicing Kit:

Used for hose extension. Kit contains splicer and hose clamp.

Part #	DESCRIPTION
--------	-------------

1423-1349	Hose Splicing Kit for 3/16" Oxy-Acetylene Hose
1423-1350	Hose Splicing Kit for 1/4" Oxy-Acetylene Hose



Hose Repair Kit:

Perfect for quick hose repair. Contains most frequently used fittings and hose clamp.

Part #	DESCRIPTION
--------	-------------

1423-1326	Hose Repair Kit for 3/16", "B" Size
1423-1327	Hose Repair Kit for 1/4", "B" Size



1423-1348

Hose Repair Kit, 3/16" and 1/4" with Crimping Tool

Special "B" Size Kit offers 12 different items most frequently used for hose repair. Assortment of hose nuts & nipples, splicers, couplers, ferrules and crimping tool.

Part #	DESCRIPTION
--------	-------------

1423-1348	Hose Repair Kit for 3/16" and 1/4"
-----------	------------------------------------



1420-0296

Hose Repair Kit

Part #	Model #	DESCRIPTION
--------	---------	-------------

1420-0296	DK-FP	Complete Dealer Kit*
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*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.

HAND-HELD FERRULE CRIMPING TOOLS



To use these tools - Insert ferruled- end of hose in proper hole. Strike with hammer or press in vise. Make 1/4" turn and strike or press again. These crimping tools can be used for crimping ferrules on single or twin hose.

Crimp - Hammer Strike

Part #	DESCRIPTION
1423-1465	Hose Crimping tool, Economy, 2 Hole Jaw, for 3/16" & 1/4" Hose

Crimp - Hand Grip Pressure

Part #	DESCRIPTION
1420-0295	Hose Crimping Tool, locking Pliers type, 2 Hole Jaw, for 3/16" & 1/4" Hose

Tank Wrench:

Part #	DESCRIPTION
1420-0293	Ten Way Tank Wrench 3/16" - 1 1/8" with 3/8" Socket

CRIMPLER™, HEAVY DUTY LUG/SPLICER CRIMPING TOOL

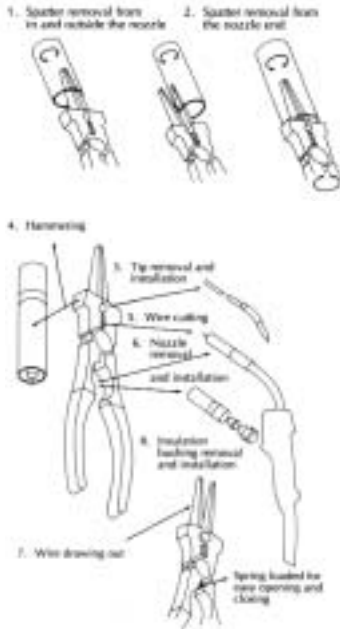


Crimpler™

- 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
1423-1429	Welper®, Mini-MIG Pliers
1423-1428	Welper®, MIG Pliers

Welper®
Mini-MIG Pliers



Welper®
MIG Pliers



LIGHTNIN' BUG® TORCH LIGHTER

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

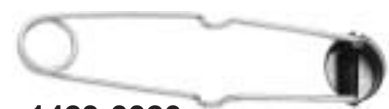
Model	Item
1423-1423	Lightnin' Bug®, Torch Lighter



Lightnin' Bug®

SINGLE FLINT AND TRIPLE FLINT LIGHTERS

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



1423-0026



1423-0050



1423-0032



1423-0052

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

Gage	Wire Dia.	Ridge Dia.	Cleans Hole	
			Diameter Inch	Drill Size
6	0.014	0.016	.018-.020	77-76
7	0.018	0.020	.021-.022	75-74
8	0.021	0.023	.024-.026	73-71
10	0.024	0.026	.028-.031	70-68
12	0.028	0.030	.032-.035	67-65
14	0.032	0.034	.036-.038	64-62
15	0.035	0.038	.039-.040	61-60
16	0.037	0.040	.041-.042	59-58
17	0.039	0.042	.043-.046	57
18	0.042	0.044	.046-.051	56
22	0.048	0.050	.052-.055	55-54
24	0.055	0.057	.060-.064	53-52
26	0.062	0.065	.067-.073	51-49

TIP DRILL CLEANER KIT (12 piece)



Tip Drill Cleaner

- 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
1423-0089	Flat Soapstone 3/16" x 1/2" x 5", Gross Pack
1423-0095	Flat Soapstone, 6 pcs./pk
1423-0088	Round Soapstone, 1/4" x 5", Gross Pack
1423-0094	Round Soapstone, 6 pcs./pk



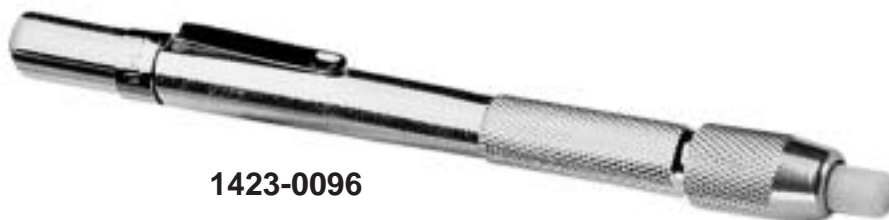
SOAPSTONE HOLDER

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

1423-0097



1423-0096



HANDYGUARD™, WELD 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 HAMMERS

- 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

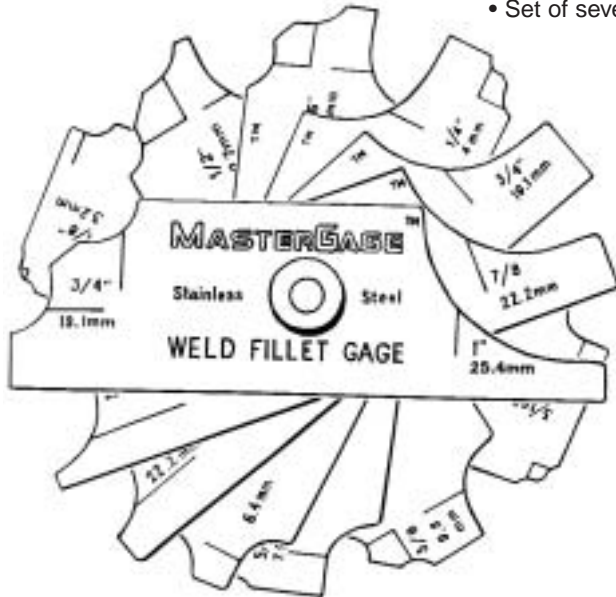
Model	Item	Length	Weight
1423-0086	Cone and Chisel	12"	14 oz.
1423-1466	Cone and Cross Chisel	11"	15 oz.
1423-0085	Brush and Chisel	11"	17 oz.



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



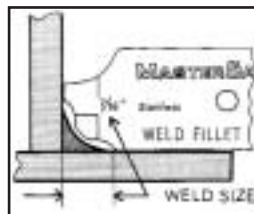
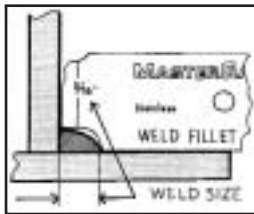
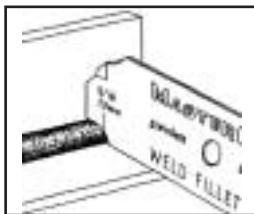
Model	Item
1423-1464	MasterGage™, Fillet Weld Gage



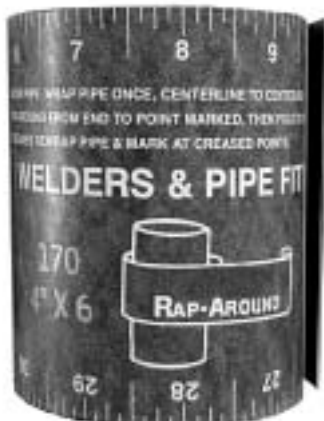
Fillet Weld Gage by MasterGage™

Convex Weld

Concave Weld



RAP-AROUND MEASURING TAPE (FOR PIPE MEASUREMENT)



Rap-Around Tape

- 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



4-Way Pick Set

POCKET SCRIBE

- Lightweight, yet strong aluminum handle
- Sharp tungsten carbide tip cuts into hard surfaces, leaves clear marks on metal, glass, plastics, tools etc.

Model	Item
1423-1422	Pocket Scribe



Pocket Scribe

DEBURRING TOOL

- Aluminum handle, 6" long with hardened steel cutter
- Used for deburring metal or plastic
- Cutting edge heat treated, tempered steel
- Blade swivels for positive cutting action

Model	Item
1423-1415	Deburring Tool



Deburring Tool

MAGNET WITH FLEX HANDLE, 15" REACH

- Powerful enough to pick-up ferrous objects weighting 1.5 lbs
- Perfect tool to pick-up ferrous metal objects in hard to reach places
- A bendable copper shaft enables you to retrieve at hard-to-reach angles and around objects

Model	Item
1423-1409	Magnet with Flex Handle



Magnet with Flex Handle

MIRROR WITH FLEX HANDLE, 15" REACH



Mirror Flex Handle

- Fast, accurate visual inspection of hidden areas
- Offers limitless number of positions

Model	Item
1423-1410	Mirror with Flex Handle

MAGNETIC TORPEDO LEVEL, 9"



Magnetic Torpedo Level

- Heavy duty, 9" aluminum frame
- Magnetic edge
- V-grooved working edge for pipe work
- Vials read plumb, level and 45°

Model	Item
1423-1427	Torpedo Level, Magnetic, 9"

LOCKING PLIERS/CLAMPS



Weld Clamp, 9", 2-Jaw



Locking Pliers, 6" and 11"

Model	Item
1423-1416	2-Jaw Welding Clamp 9"
1423-1430	Locking Plier, 6"
1423-1432	Locking Plier, 11"
1423-1431	Locking Sheet Metal Clamp, 8"



Locking Sheet Metal Clamp, 8"

BARRACUTTER™, CABLE CUTTER

**Barracutter™
Cable Cutter**



- High carbon steel hand shear for cutting welding cable through 4/0, power cable through 6/4 and rubber hose through 1/2"

Caution: Designed for cutting copper and aluminum cables only.

Model	Cable Capacity
1423-1208	6-4/0

ELECTRICAL PLUGS AND RECEPTACLES



1423-1207



1423-1212



1423-1206

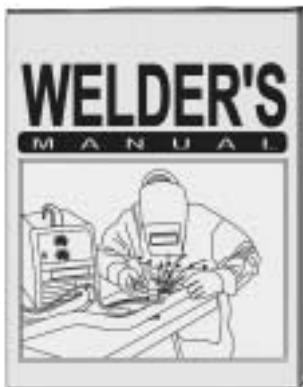


1423-1213

- Heavy Duty Power Plugs: U.L. Listed
- Heavy Duty Power Receptacles: U.L. Listed

Model	Item	Rating
1423-1207	Electrical Plug, Parallel Blade	50 A/250V
1423-1206	Electrical Receptacle, Parallel Blade, 50 A	50 A/250V
1423-1212	Electrical Plug, Crowfoot	30 A-50 A
1423-1213	Electrical Receptacle, Crowfoot	50 A-125 V/250 V

WELDING INSTRUCTION BOOK



Instruction Book

The basics of oxy-acetylene welding, arc welding, MIG and TIG welding, plus plasma cutting. Includes great photographs.

Model	Item
1423-1214	Welding Manual

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 1/2"	6-4	7"
1443-0026	300	Up to 2"	2-1	8"
1443-0027	500	Up to 2"	1/0-4/0	10"



1443-0025



1443-0026



1443-0027

ALLOY GROUND CLAMPS

- Contoured handle lever for easy jaw opening
- Fully insulated spring
- Large hex screw cable connection assures safe cable connection every time
- Meets or exceeds most Industry Standards.

Model	Amperage Capacity	Jaw Opening	Cable Capacity	Length
1423-1205	300	Up to 1-1/2"	1/0-3/0	7"
1423-1210	500	Up to 1-1/2"	2/0-4/0	8"
1423-1200	300	Up to 1-1/2"	1/0-3/0	10"



1423-1205



1423-1210



1423-1200

MAGNETIC GROUND CLAMPS

- Large contact area assures excellent electrical contact
- Grounding concealed to prevent dislodgement
- Insulated to prevent annealing
- Most popular magnetic ground clamp in the industry

Model	Amperage Capacity	Cable Capacity
1423-1215	300	1-1/0



1423-1215

EURO CABLE ADAPTER (Dinse® Style to U.S.)



- Euro cable adapter (Dinse® style to U.S. type) allows to inter-connect with most other types of U.S. cables connectors. Allows complete flexibility
- Simple and safe - Just plug-in and tighten by a short, strong turn for positive stop-lock action and maximum conductivity
- For use on most european welding power sources

Model	For Cable
1423-1223	#4 - #1
1423-1224	1/0 - 3/0

CABLE LUGS

Model	Cable Capacity	Amperage	Stud Hole	ID of Socket	Pack
1443-0002	6-8	75	21/64"	10/32"	2 pc./pk.
1423-1221	6-8	75	21/64"	10/32"	10 pc./pk.
1443-0003	4-6	100	21/64"	11/32"	2 pc./pk.
1423-1222	4-6	100	21/64"	11/32"	10 pc./pk.
1443-0004	6-2	150	17/32"	1/2"	2 pc./pk.
1423-1201	6-2	150	17/32"	1/2"	10 pc./pk.
1443-0005	1-2/0	200	17/32"	35/64"	2 pc./pk.
1423-1202	1-2/0	200	17/32"	35/64"	10 pc./pk.



WELDFLEX™ WELDING CABLE

- Constructed with #34 AWG Copper, offers supreme flexibility at all temperatures ranging from -40° to +70° C
- Neoprene jacket
- Meets or exceeds all U.S. and International Specifications.
Conforms to ASTM B172 Class M Stranding #34 AWG, NEMA WC-3 1980 and IPCEA S-19-81 Standards.

Cable Safety Requirements

- Coiled Cable must always be spread-out before use, to avoid overheating
- Cable must be joined only by recommended connections
- Cable with damaged insulation must be replaced immediately
- Service or repair must be done by qualified and trained personnel only
- Cable must not be spliced with-in 10 ft. of the holder
- Cable must never be coiled or looped around the body
- Inspect frequently. Always disconnect power source before performing any maintenance

Neoprene compounded jacket imparts exceptional toughness and durability, outstanding resilience and flexibility

Top quality neoprene jacket ensures excellent dielectric Strength at 600 volts

Ultra thin #34 AWG (0.16mm) copper wire allows the user to use a smaller cross section than #30 AWG (0.20mm) cable.



Meets or exceeds all U.S. and International Specifications

Special separator enhances the ability to strip the wire cover and provides additional moisture protection.

Model	Size/Feet
1440-0258	#4, 50 ft.
1423-1216	#4, 100 ft.
1423-1219	#1, 50 ft.
1423-1217	#1, 100 ft.
1423-1220	1/0, 50 ft.

AWG Size	#4	#1	1/0
Nominal Cross Section (Sq. Inch)	0.33	0.66	0.83
Construction - # of Wires (Stranding)	1068	2106	2664
Nom. outer Diameter	0.43"	0.54"	0.61"
Jacket Thickness	0.08"	0.08"	0.09"
Max. Resistance at 20° C (Ohms @ 1000')	0.261	0.131	0.104
Current Capacity (Amps)	162	300	390



MAG TOOL™ MULTI-PURPOSE MAGNETIC HOLDERS

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

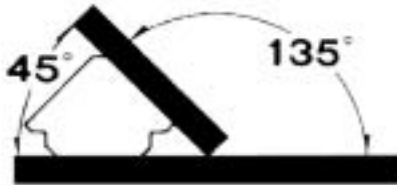
Model	1423-1424	1423-1425	1423-1426
Size	Small	Medium	Large
Dimensions	3.6" x 2.4" x 0.44"	4.7" x 3.4" x 0.56"	6.3" x 4" x 0.63"

Magnet: Anisotropic Ferrite

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



1423-1424



1423-1425



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



1423-1419

1423-1418

1423-1417

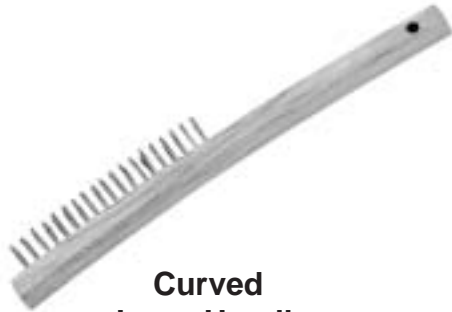
1423-1421



1423-1420

Model	Size	Throat Capacity	Depth	Spindle Diameter
1423-1417	2"	0"-2"	1-1/4"	7/16"
1423-1418	3"	0"-3"	1-5/8"	7/16"
1423-1419	4"	0"-4"	2-1/4"	7/16"
1423-1420	5"	0"-5-1/4"	2-5/8"	1/2"
1423-1421	6"	0"-5-7/8"	3-1/4"	5/8"

SCRATCH BRUSHES



Curved Long Handle



Shoe Handle

Curved Long Handle Brushes

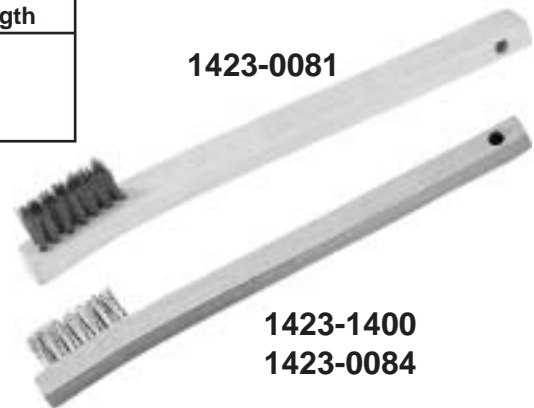
Model:	Wire	No. of Rows	Trim Length
1423-0087	Carbon Steel	3 x 19	1-3/16"
1423-0082	Stainless Steel	3 x 19	1-3/16"

Shoe Handle Brushes

Model:	Wire	No. of Rows	Trim Length
1423-0083	Carbon Steel	4 x 16	1-3/16"
1423-1442	Stainless Steel	4 x 16	1-3/16"

Welders Toothbrush Style

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



1423-0081

1423-1400
1423-0084

Chipping Hammer Replacement Brush

Model:	Wire	No. of Rows	Trim Length
1423-0092	- Carbon Steel	3 x 15	1 3/16"



1423-0092

Flux Brushes

Model:	Trim Width	Trim Length	Total Length	Pack
1423-1100	1/2"	3/4"	5-3/4"	120/Box
1423-0093	1/2"	3/4"	5-3/4"	3 pc./Pk.

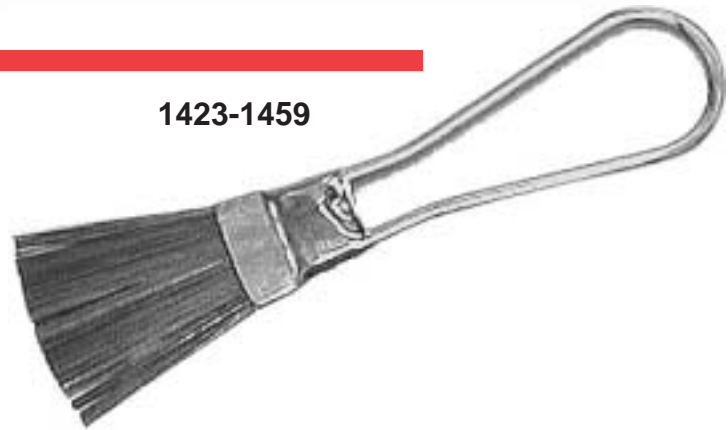
1423-1100



Loop Handle Brush

Model:	Handle	Width
1423-1459	Steel	5-5/16" x 1-1/2"

1423-1459



Parts Cleaning Brush

Model:	Handle	Length
1423-1402	Plastic	10-1/2"

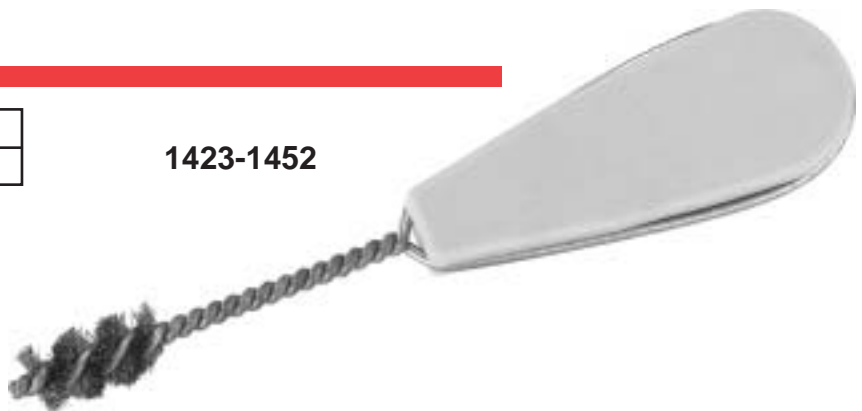
1423-1402



Fittings Brushes

Model:	Handle	Size
1423-1452	Plastic	4-3/4" x 1/2"

1423-1452



POWER BRUSHES: END BRUSHES



Circular Type



Crimp Type



Knot Type

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.

Model	Wheel Diameter	Type	Wire Size	Max. RPM
Circular Type		1/4" Shank		
Carbon Steel Wire				
1423-2100	1-1/2"	Coarse	.014"	4,500
1423-2101	2"	Coarse	.014"	4,500
1423-2133	2" (5 pc./PK)	Coarse	.014"	4,500
1423-2102	3"	Coarse	.014"	4,500
1423-2103	3"	Fine	.008"	4,500
1423-2134	3" (5 pc./PK)	Coarse	.008"	4,500
Crimp Type		1/4" Shank		
Carbon Steel Wire				
1423-2104	3/4"	Coarse	.014"	4,500
1423-2130	3/4" (5 pc./PK)	Coarse	.014"	4,500
1423-2117	1"	Coarse	.014"	4,500
Knot Type		1/4" Shank		
Carbon Steel Wire				
1423-2105	3/4"	-	.020"	20,000
1423-2118	1-1/2"	-	.020"	20,000
1423-2129	1-1/2" (5 pc./PK)	-	.020"	20,000

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 Manufacturers 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.



1/4" Shank

Crimp Type

5/8"-11NC &
3/8"-24 NF



Knot Type



Model	Cup Diameter	Wire Size	Max. RPM
Crimp Type: Carbon Steel Wire, 1/4" Shank			
1423-2106	1-1/2"	.014"	4,500
1423-2131	1-1/2" (5 pc./Pk.)	.014"	4,500
1423-2107	2-1/2"	.014"	4,500
1423-2108	2-1/2"	.008" (Fine)	4,500
1423-2132	2-1/2" (5 pc./Pk.)	.008" (Fine)	4,500
Crimp Type: Carbon Steel Wire, 5/8" - 11 NC Threaded Arbor			
1423-2109	3"	.014"	12,500
1423-3158	4"	.014"	8,500
1423-2114	5"	.014"	6,500
Knot Type: Carbon Steel Wire, 3/8" - 24 NF Threaded Arbor			
1423-3159	3"	.020"	12,500
Knot Type: Carbon Steel Wire, 5/8" - 11 NC Threaded Arbor			
1423-2110	3"	.020"	12,500
1423-2115	4"	.020"	8,500
1423-2116	6"	.020"	6,500
Knot Type: Stainless Steel Wire, 5/8" - 11 NC Threaded Arbor			
1423-2126	3"	.020"	12,500

CAUTION:

Avoid injury observe brush safety rules.

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.

CAUTION:
Avoid injury observe brush safety rules.



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 1/4" 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
1423-2127	4" dia. x 3/16" wide	.020"	5/8"-11 NC	12,500
1423-2112	6" dia.	.020"	5/8"-11 NC	9,000
Standard Twist: Carbon and Stainless Steel Wire				
1423-2113	4" dia.	.020"	5/8"-11 NC	12,500
1423-2119	6" dia.	.020"	5/8"-11 NC	9,000
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"-24NF by using arbor reducing adaptor.				
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			
1423-3160	Arbor Reducing Adaptor, 5/8"-11 to 3/8"-24 NF			
Wheel Brush Arbor Adaptor Kit: For 6" and 8" Crimped wire Wheel Brushes				
1423-3161	Wheel Brush Arbor Adaptor Kit, 2" x 1/2", 5/8" & 3/4"			

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
1423-2225	1/2" x 7/8"	Round Tree
1423-2226	1/2" x 1/2"	Ball
1423-2227	1/2" x 7/8"	Cyl. Ball Nose
1423-2228	1/2" x 7/8"	14° Angle
1423-2229	-	Rotary File Kit 5 pc. Set



STEEL ROTARY RASPS

Model	Size	Shape
1423-3177	1/2" x 7/8"	Cylindrical
1423-3178	1/2" x 7/8"	Ball Nose
1423-3179	1/2" x 7/8"	Oval
1423-3180	1/2" x 7/8"	Cone



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
A	36	S	B	F

Legend: Select one from each column.				
Abrasive:	Grits	Grades	Bond Types	Reinforcement
A = Aluminum Oxide	Coarse: #16-24	Soft: H, I, J, K	B = Resinoid	1 FG = Inter-woven
C = Silicon Carbide	Medium: #30-60	Medium: L, M, N, O, P	V = Vitrified	2 FG = Double Reinforced
	Fine: #80-220	Hard: 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.
5. **Always** check mounting flanges for equal and correct diameter.
6. **Always** use mounting blotters when supplied with abrasives.
7. **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.
10. **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
3. **Do Not** use wheels without guards for grinding or cutoff work.
4. **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 Hubs:			
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	4-1/2" x .045" x 7/8"	13,300	A36S
1423-3187	4-1/2" x .045" x 7/8" (5 pc./Pk)	13,300	A36S
1423-3199	4-1/2" x 1/8" x 7/8"	13,300	A36S
1423-3200	4-1/2" x 1/8" x 7/8" (5 pc./Pk)	13,300	A36S
1423-3153	4-1/2" x 1/4" x 7/8"	13,300	A24R
1423-2188	4-1/2" x 1/4" x 7/8" (5 pc./Pk)	13,300	A24R
1423-3205	4-1/2" x 1/4" x 7/8" (Aluminum)	13,300	A24R
1423-2189	5" x 1/4" x 7/8"	12,000	A24R
1423-3202	5" x 1/4" x 7/8" (5 pc./Pk)	12,000	A24R
1423-2191	7" x 1/4" x 7/8"	8,500	A24R
1423-2193	9" x 1/4" x 7/8"	6,500	A24R
With Hubs:			
1423-3201	4 1/2" x 1/8" x 5/8"-11NC	13,300	A24R
1423-2232	4 1/2" x 1/4" x 5/8"-11NC	13,300	A24R
1423-3203	7" x 1/8" x 5/8"-11NC	8,500	A24S
1423-2190	7" x 1/4" x 5/8"-11NC	8,500	A24S
1423-2192	9" x 1/4" x 5/8"-11NC	6,500	A24S
Masonry Grinding Wheels:			
1423-2239	4" x 1/4" x 5/8"	13,700	C24R
1423-3206	4-1/2" x 1/4" x 7/8"	13,300	C24R
1423-2240	7" x 1/4" x 5/8"-11NC	8,500	C24S
1423-3207	9" x 1/4" x 5/8"-11NC	6,500	C24S



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.
2. 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, Abrasive 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
1423-2230	3" x 1/32" x 3/8" (10 pc./Pk)	25,000	A60T2FG
1423-3142	3" x 1/16" x 1/4"	25,000	A46T2FG
1423-3154	3" x 1/16" x 1/4" (5 pc./Pk)	25,000	A46T2FG
1423-2177	3" x 1/16" x 1/4" (10 pc./Pk)	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
1423-3209	3" x 1/8" x 1/4" (5 pc./Pk)	25,000	A46T2FG
1423-3210	3" x 1/8" x 1/4" (10 pc./Pk)	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
1423-2231	4" x 1/32" x 3/8" (10 pc./Pk)	18,000	A46T2FG
1423-3145	4" x 1/16" x 3/8"	18,000	A46T2FG
1423-3156	4" x 1/16" x 3/8" (5 pc./Pk)	18,000	A46T2FG
1423-2181	4" x 1/16" x 3/8" (10 pc./Pk)	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
1423-2183	4" x 1/16" x 5/8" (10 pc./Pk)	18,000	A46T2FG
1423-3146	4" x 1/8" x 3/8"	18,000	A46T2FG
1423-3183	4" x 1/8" x 3/8" (5 pc./Pk)	18,000	A46T2FG
1423-2182	4" x 1/8" x 3/8" (10 pc./Pk)	18,300	A46T2FG
1423-3148	4-1/2" x 1/16" x 7/8"	13,300	A46T2FG
1423-3184	4-1/2" x 1/16" x 7/8" (5 pc./Pk)	13,300	A46T2FG
1423-2184	4-1/2" x 1/16" x 7/8" (10 pc./Pk)	13,300	A46T2FG
1423-2288	4-1/2" x 3/32" x 7/8" (10 pc./Pk)	13,300	A46T2FG
1423-3185	4-1/2" 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 easy-mounting 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 High Speed Chop-Saws:			
1423-3190	12" x 5/32" x 20mm	6,300	A36S 2.5FG
1423-3191	12" x 5/32" x 1"	6,300	A36S 2.5FG
1423-3192	14" x 5/32" x 20mm	5,460	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.

CUT-OFF AND CHOP-SAW ABRASIVE WHEELS, TYPE 1 (for masonry)



Model	Size	Max. RPM	Grade
Small - Type 1, Abrasive Cut-Off Wheels:			
1423-3194	4" x 1/16" x 5/8"	18,000	C46S 2FG
1423-2236	7" x 1/8" x 5/8" Diamond Hole	8,500	C30S 2FG
For Stationary Chop-Saws Only:			
1423-2237	12" x 1/8" x 1"	5,100	C30S 2FG
1423-2238	14" x 1/8" x 1"	4,400	C30S 2FG
For Portable High Speed Chop-Saws:			
1423-3195	12" x 5/32" x 20mm	6,300	C30S 2.5FG
1423-3196	12" x 5/32" x 1"	6,300	C30S 2.5FG
1423-3197	14" x 5/32" x 20mm	5,460	C30S 2.5FG
1423-3198	14" x 5/32" x 1"	5,400	C30S 2.5FG

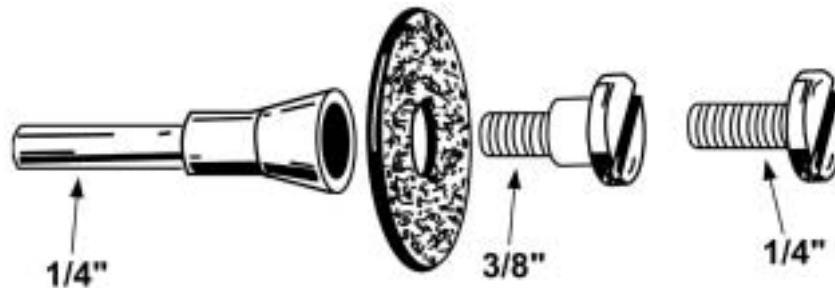
Firepower Cut-Off Wheel Safety and Cutting Procedures:

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"

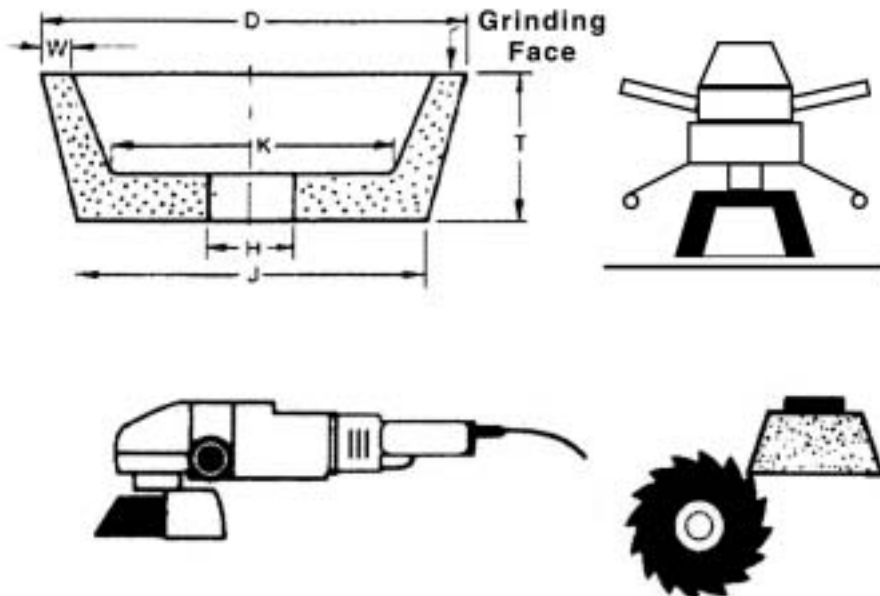
Model No.	Size
1423-2185	For 1/4" & 3/8" Arbors, with 1/4" Shank



FLARING CUP WHEEL, TYPE 11 (for metal)

- For steel and non-ferrous metals
- Heavy duty flared cup wheels for foundry and automotive work
- Also for low angle or flat grinding of welds or castings

Model No.	Type	Size (Dia. x Length X Arbor)	Max. RPM
1423-2211	A16Q	5" x 2" x 5/8"-11	7,250



MOUNTING POINTS

Caution!
Irrespective of the length, the shank must be gripped by the collet at a **Minimum** length of 3/8"


- 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



A Shapes: For medium to heavy duty blending and contouring

W Shapes: For off-hand and precision grinding of medium to heavy stock

CAUTION
Abrasive users and others in area must wear goggles or face shields over safety glasses



Model	Type & Shape	Size (Dia. x Length x Shank)	Max. RPM
1423-2199	A2	1" x 1-1/4" x 1/4"	38,000
1423-2201	A5	3/4" x 1-1/8" x 1/4"	45,000
1423-2202	A11	7/8" x 2-3/4" x 1/4"	19,000
1423-2204	A15	1/4" x 1-1/16" x 1/4"	72,000
1423-2205	A23	3/4" x 1" x 1/4"	39,000
1423-2206	A24	1/4" x 3/4" x 1/4"	35,000
1423-2207	A25	1" x 1" Round x 1/4"	22,000
1423-2208	A38	1" x 1" x 1/4"	34,000
1423-2209	W218	1" x 1/2" x 1/4"	38,000
1423-2210	W220	1" x 1" x 1/4"	38,000

BENCH GRINDING WHEELS: TYPE 1 FLAT FACES

- 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
1432-2313	6" x 1"	36
1432-2314	6" x 1"	60
1432-2315	6" x 1"	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"**.

MOUNTED GRINDING WHEELS



- Small diameter grinding wheels are designed for use in restricted or hard-to reach areas. They are excellent for medium to heavy duty applications in metal fabrication, foundries, steel mills for grinding ferrous and non-ferrous metals
- For use with portable air and electric tools, horizontal or straight shaft, die and pencil grinders
- Ideal for rapid stock removal on high alloy steel, castings and special steel

Model	Size
1423-2271	1" x 1"
1423-2272	1-1/2" x 1"
1423-2274	2" x 1/2"
1432-2275	2-1/2" x 1/4"

CAUTION
Abrasive users and others in area must wear goggles or face shields over safety glasses

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.
2. Material being cut or ground should always be clamped or securely positioned, especially in cutting-off operations.
3. Proper machine speed is essential for maximum efficiency- Too low a speed causes "Jumping" of the disc, and can cause the circumference to wear unevenly.

Safety First - Always Grind Safely!

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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

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



Model	Grit
4 1/2" x 7/8" (without Hub):	
Max RPM: 13,300	
1423-3162	ZA 36
1423-3163	ZA 60
1423-3164	ZA 80
4 1/2" x 5/8"-11NC (with Hub):	
Max RPM;13,300	
1423-2220	ZA 36
1423-2221	ZA 60
1423-3165	ZA 80
7" x 7/8"- (without Hub):	
Max RPM: 8,600	
1423-3166	ZA 36
1423-3167	ZA 60
1423-3168	ZA 80
7" x 5/8"-11NC (with Hub):	
Max RPM: 8,600	
1423-3136	ZA 36
1423-3137	ZA 60
1423-3169	ZA 80

RESIN FIBRE SANDING DISCS & HAND PADS



Firepower resin fibre discs have the best combination of the highest quality aluminum oxide 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

Safety First - Always Grind Safely!

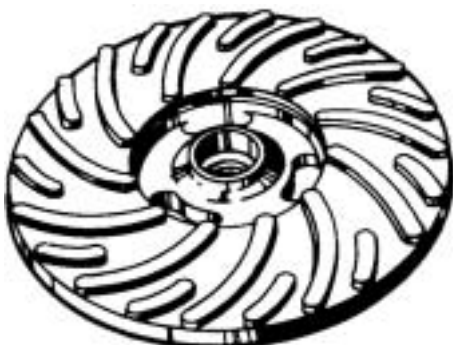
To avoid injury always wear complete body protection at all times: Impact-resistant protective glasses, full face shield, safety shield, safety shoes, arm guards, leather gloves and apron for all grinding operations. Always wear a respirator to avoid inhalation of dust particles. Persons entering an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

Model	Grit
5" x 7/8" (3 Pc./Pack):	
Max RPM: 11,000	
1423-2164	A.C 24
1423-2165	A.C 36
1423-2166	A.C 50
1423-2167	A.C 80
7" x 7/8" (3 Pc./Pack):	
Max RPM: 7,600	
1423-2170	A.C 16
1423-2171	A.C 24
1423-2172	A.C 36
1423-2173	A.C 50
1423-2174	A.C 80

BACK PADS

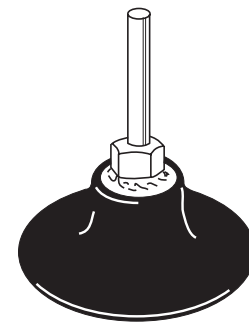
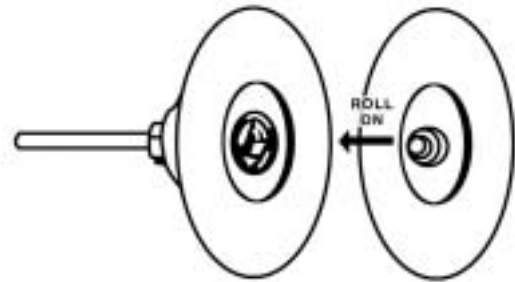


- Heavy duty, flexible rubber back pads (5/8"-11NC)
- Well-balanced pads provide even wear on discs
- Slotted hub draws cool air in and produces a cooler cutting action thus improving disc life

Model	Size
1423-2194	5" x 5/8"-11NC
1423-2195	7" x 5/8"-11NC

QUICK CHANGE AND SURFACE CONDITIONING DISCS, TYPE III

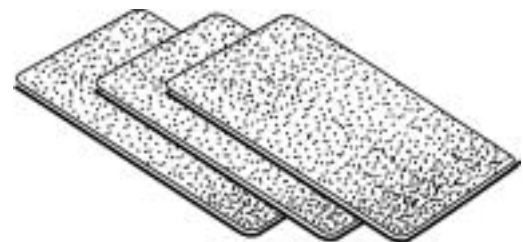
- Provide low vibration, less tool down time, and longer disc life
- Designed for quick disc and grit changes
- These time saving discs are quickly and firmly mounted on a special reusable 1/4" mandrel
- Surface conditioning discs provide superior performance for: Scratch removal, Removing flash, rust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



Model	Grit/Color	Type	Pcs./Pk.
Quick Change disc, 3"			
1423-3141	24	-	10
1423-3138	36	-	10
1423-3139	60	-	10
1423-3140	120	-	10
Surface Condition Discs, 3"			
1423-2140	Brown	Coarse	10
1423-2141	Maroon	Medium	10
1423-2142	Blue	Fine	10
1423-3174	Brown	Coarse	50
1423-3175	Maroon	Medium	50
1423-3176	Blue	Fine	50
Quick change Back Pad, 3"			
1423-2143		3" x 1/4" Shank	

NON-WOVEN, SURFACE CONDITIONING HAND PAD - 6" X 9"

- Top quality hand pads for surface preparation, blending and finishing. Offers aggressive action for general cleaning and deburring
- Durable. Constructed of non-rusting, non-conductive, tough fibers



Model	Color	Grit	PCs./Pk
1423-2286	Maroon	Very Fine	10



MOUNTED FLAP WHEELS



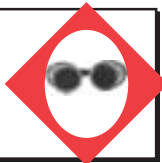
Firepower flap wheels are constructed of hundreds of resin bonded cloth abrasive sheets firmly attached to a balanced core. During use, each flexible sheet adapts quickly to the contours of the workpiece - continuously exposing fresh, sharp grit for extended product life. The controllable aggressiveness, 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.

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.
5. 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.
6. 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.

CAUTION

Abrasive users and others in area must wear goggles or face shields over safety glasses

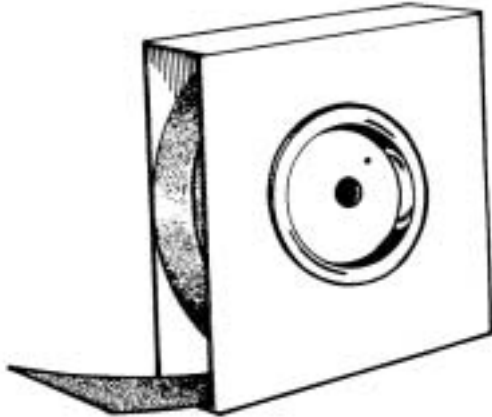


MOUNTED FLAP WHEELS

Model	Wheel Dimensions	Grit	Max.RPM
<i>Mounted Flap Wheels</i>			
1423-2160	1" x 1" x 1/4"	60	25,000
1423-2161	1" x 1" x 1/4"	80	25,000
1423-2162	1" x 1" x 1/4"	120	25,000
1423-2256	1" x 1" x 1/4" (5 pc./Pack)	60	25,000
1423-2257	1" x 1" x 1/4" (5 pc./Pack)	80	25,000
1423-2258	1" x 1" x 1/4" (5 pc./Pack)	120	25,000
1423-2157	1-1/2" x 1/2" x 1/4"	60	25,000
1423-2158	1-1/2" x 1/2" x 1/4"	80	25,000
1423-2159	1-1/2" x 1/2" x 1/4"	120	25,000
1423-2253	1-1/2" x 1/2" x 1/4" (5 pc./Pack)	60	25,000
1423-2254	1-1/2" x 1/2" x 1/4" (5 pc./Pack)	80	25,000
1423-2255	1-1/2" x 1/2" x 1/4" (5 pc./Pack)	120	25,000
1423-2154	2" x 1" x 1/4"	60	20,000
1423-2155	2" x 1" x 1/4"	80	20,000
1423-2156	2" x 1" x 1/4"	120	20,000
1423-2250	2" x 1" x 1/4" (5 pc./Pack)	60	20,000
1423-2251	2" x 1" x 1/4" (5 pc./Pack)	80	20,000
1423-2252	2" x 1" x 1/4" (5 pc./Pack)	120	20,000
1423-2151	3" x 1" x 1/4"	60	18,000
1423-2152	3" x 1" x 1/4"	80	18,000
1423-2153	3" x 1" x 1/4"	120	18,000
1423-2247	3" x 1" x 1/4" (5 pc./Pack)	60	18,000
1423-2248	3" x 1" x 1/4" (5 pc./Pack)	80	18,000
1423-2249	3" x 1" x 1/4" (5 pc./Pack)	120	18,000



SHOP ROLLS: EMERY CLOTH, ALUMINUM OXIDE



- Firepower shop rolls are excellent for such applications as removing tool marks, deburring, removing rust and scale, contour sanding, stripping operations and improving metal finishes.
- Can be used dry or with oil, cutting fluid and lubricants.

Model	Grit
Rolls - 1" x 10 Yds.	
1423-3170	80
1423-3171	120
1423-3172	180
1423-3173	320
Rolls - 1" x 25 Yds.	
1423-3135	80
1423-2136	120
1423-2137	180
1423-2138	320

SHOP ROLLS: SAND SCREEN, SILICON CARBIDE



- Ideal for polishing machined shafts and roughing plumbing for soldering or gluing. These products are easy to use, allowing your customer to tear off what he needs and store the spool of remaining product for later use.
- Excellent for such applications as removing tool marks, deburring, removing rust and scale, contour sanding, stripping operations and improving metal finishes.
- Can be used dry or with oil, cutting fluids and lubricants.

Model	Grit
Roll - 1 1/2" x 9 Ft.	
1423-2306	80
1423-2307	120
1423-2308	180
1423-2309	320



Firepower Machine Warranty

Firepower is proud to provide quality welding products. Each welding machine is backed by a generous warranty period.

Firepower electric welding machines are covered by a 5-2-1 limited warranty.

- 5 years on the transformer
- 2 years on the welding unit
- 1 year on the MIG gun or welding leads

Firepower engine-driven welding machines are covered by a one-year (parts & labor) warranty.

Engines will be covered by the manufacturer's warranty.

Reference welding machine instruction manual for details on the warranty procedure.

QUALITY WELDING APPARATUS AND SAFETY EQUIPMENT FOR INDUSTRY, FARM, SHOP AND DO-IT-YOURSELF REQUIREMENTS.

Firepower® welding and safety products cover a full range of metalworking equipment needs. When you choose Firepower you can be sure you're getting premium quality tools and equipment with a proven record of superior performance and dependability. That's because Firepower products are manufactured by the recognized leaders in the welding industry.

The Firepower line includes a full selection of the best oxy-fuel apparatus for welding, cutting and heating along with a variety of special purpose outfits for industry, farm, shop, or home use.

The Firepower air-fuel line includes everything from pencil torches to professional "Swirl Combustion" units for plumbing and HVAC tradesmen.

Firepower plasma arc cutting systems (1/8" to 1-1/4") give you the ability to cut any electrically conductive material with incredible ease and speed. Firepower's arc welding products include electrode holders, ground clamps, cable connectors, cable lugs, carbon arc torches, mig guns and consumables.

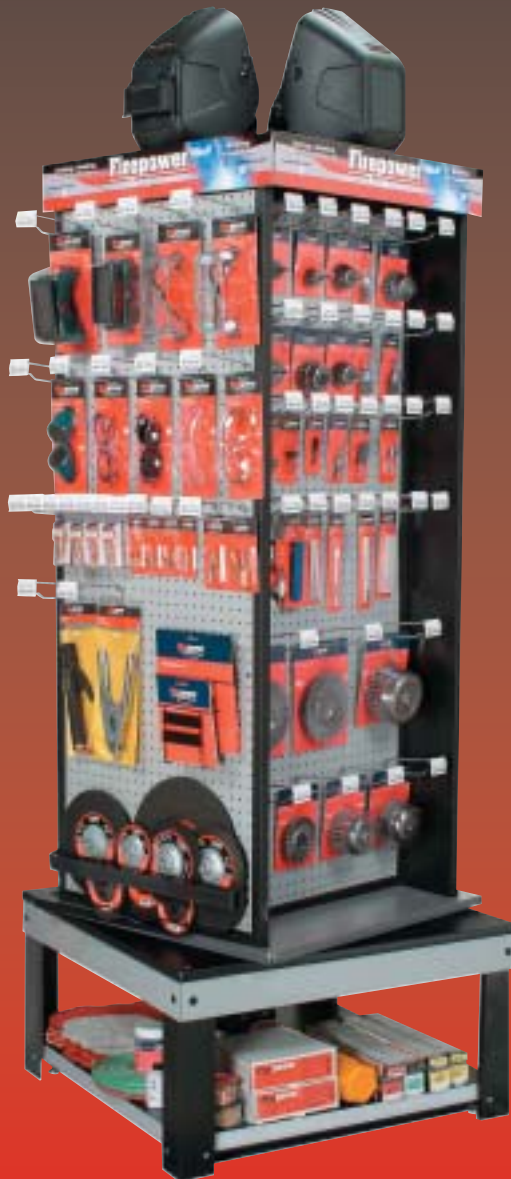
Firepower's tri-lingual packaged electrode selection is available in fast moving "Job Packs" as well as traditional 1- 5- 10- and 50-lb. cartons.

***Simply put,
Firepower® is
the best you and
your customers
can buy!***

Firepower's Welding Accessories Rotating Display Rack

Includes
171
fast moving SKU's

- Spinning display rack offers space efficiency and easy access to product
- 33" x 33" base. Small footprint takes up minimal floor space
- Bulk storage area for large and heavy items
- Features popular items such as the auto-darkening helmet
- Attractive full color tri-lingual packaging
- Peg board hooks included!



***To place
an order
contact your
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for additional
information
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Firepower®

International Customer Service
Oakville, Ontario, Canada
Ph: (1) 905-827-9777
Fax: (1) 905-827-9797

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Oakville, Ontario Canada
Ph: (1) 905-827-1111
Fax: (1) 905-827-3648

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Fax: (81) 6-4809-8412

Thermadyne Chile
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Fax: (56) 2-557-5349



P. O. Box 1007 • Denton, TX 76202-1007
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