

INSTRUCTIONAL EQUIPMENT REQUEST

SPRING 2018-2019

Internal Use

IE #: _____
Total \$: 14,521.00

Requester Name: Scott Miner

Division Name: SLPC

SUMMARY INFORMATION

Title of Item: Trailblazer Welding Power Source

Equipment Location Building: 800

Room: 810

Location Comments:

Welding Lab

SECTION 1: EQUIPMENT DESCRIPTION

The equipment is: ☐ A Replacement ☐ An Upgrade ☒ New Equipment/Technology

Describe the specific equipment requested and how it will be used to replace, upgrade or provide new technology to LPC from what is currently in place:

We currently do not have any engine driven outdoor welding machines that can operate without being plugged into a wall. This is a widely used type of welding machine in the construction and pipeline industries. Employers have and use this type of equipment. We want to expose students to this form of welding technology.

LPC - RECEIVED

FEB 28 2019

ADMINISTRATIVE SERVICES

SECTION 1: EQUIPMENT DESCRIPTION (contd)

If applicable, describe the legal requirement, mandate, or safety concern for purchase of this equipment, making specific reference to the legal requirement or regulation:

n/a

SECTION 2: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES

LPC MISSION STATEMENT:

LPC is an inclusive learning-centered institution providing educational opportunities and support for completion of students' transfer, degree, basic skills, career-technical, and retraining goals.

LPC PLANNING PRIORITIES:

- ❖ **Accreditation:** Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- ❖ **Curriculum:** Provide necessary institutional support for curriculum development and maintenance.
- ❖ **Tutoring Services:** Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.
- ❖ **Professional Development:** Coordinate available resources to address current and future professional development needs of faculty, classified professionals, and administrators in support of educational master plan goals.

Specify how the equipment supports *LPC's Mission Statement and Planning Priorities*:

This equipment makes the welding technology lab an inclusive learning centered department providing educational opportunities and support for completion of students' transfer, degree, basic career technical skills as well as retraining goals.

This equipment will help to assist and establish regular and ongoing processes to implement best practices in our classes and labs.

This equipment will provide the necessary institutional/department support for the important welding/manufacturing curriculum development and maintenance.

This equipment will allow instructors/students to expand tutoring services to meet demand and support student success in CTE courses.

This equipment will allow faculty professional development opportunities both in welding and engineering technology in support of educational plan goals.

SECTION 3: EDUCATIONAL ITEMS – PROGRAM REVIEW

Specify the educational programs this equipment supports:

Welding - Advanced Manufacturing
Automotive
Engineering Tech
Engineering

If this equipment is included in your Program Review, please include the exact wording. If equipment is not included, explain why:

"Our department needs to expose students to skills and equipment that are relevant in industry. Welding and manufacturing equipment, as well as support equipment, is the core of our program(s). Once students become fluent in using these pieces of equipment, they have that skill and knowledge in their personal toolbag for life. Equipment is not cheap, but it is important and vital for many career pathways"

SECTION 4: TEACHING AND LEARNING

Describe in detail the impact this equipment will have on teaching:

This equipment will allow instructors to teach new work world skills.
Industry is changing, and these important tools are part of this trend.
Having the ability to operate and understand these tools makes our students stand above/apart from other in the region.
This equipment makes the best welding program in the bay area, that much better.

Describe in detail the impact this equipment will have on learning:

This equipment will allow students to learn new work world skills.
Industry is changing, and these important tools are part of this trend.
Having the ability to operate and understand these tools makes our students stand above/apart from other in the region.
This equipment makes the best welding program in the bay area, that much better.

Each academic year, this equipment will impact: 20+ # of classes/sections 250+ # of students

SECTION 5: OUTCOMES (SLOs)

Using your documented SLOs, specify how the equipment will enable student learning outcomes to be achieved.

"Upon completion of WLDT XX, students should be able to operate safely in a welding/manufacturing work environment."
Repetative use of industrial equipment builds safety skills overtime. By using these types of equipment, it help to build a personal safety culture over time. This types of activities are also described as critical thinking.
"Upon completion of WLDT XX, students should be able to produce a manufacturing traveler for a manufactured item or component"
Using a technical tool or piece of equipment builds on skills that allow a student to build the knowledge needed to think about the sequential steps needed to operate complex tools. Producing a manufacturing traveler involves complex thinking about how a manufactured item is made or produced. This type of activity is also described as critical thinking.
"Upon completion of WLDT XX, students should be able to provide an oral description of the processes used to produce a manufactured item."
Producing a manufacturing item involves complex thinking about how a manufactured item is made or

What are the consequences related to learning outcomes if request is not funded?

Not allowing students repetative use of industrial equipment builds safety skills overtime. By using these types of equipment, it help to build a personal safety culture over time.
Not allowing students use of a technical tool or piece of equipment that builds on skills that allow a student to build the knowledge needed to think about the sequential steps needed to operate complex tools. Producing a manufacturing traveler involves complex thinking about how a manufactured item is made or produced. This type of activity is also described as critical thinking.
Not allowing students to produce a manufacturing item that involves complex thinking about sequential steps and how a manufactured item is made or produced.

SECTION 6: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY)

What is the potential life span of the requested equipment?

15-20 years

If new storage is needed what are the storage requirements, location requirements, and costs associated with the new equipment: (NOTE: Specific storage costs should be detailed in the “Part A: Initial Start-up Costs” section below.)

NA

If this equipment replaces old equipment but the old equipment will not be retired, are there on-going storage requirements, location requirements, and costs associated with the old equipment? If so, provide details.

NA

If your proposed equipment will require assembly or installation, please explain what is required, who will perform it, and what the cost will be?

NA

What will be required to maintain the equipment, such as regular servicing or upkeep? (Specific on-going costs should be detailed in the “Part B: On-Going Annual Operating Costs” sections below as applicable.)

Basic Shop maintenance

Explain how this equipment meets or exceeds basic sustainability efforts and/or provides renewable resources to the college:

This equipment is made from materials that are able to be 100% recycled at the end of the life span. The welding department recycles 6000 pounds of steel, aluminum and stainless steel annually.

SECTION 6: TOTAL COST OF OWNERSHIP (contd)**Part A: Initial Start-up Costs**

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Equipment or Materials	13,221.00	
Taxes (9.5%)	1,300.00	
Shipping or Delivery Charge	0.00	
Installation Costs *		
Miscellaneous Costs:		
Facilities Modifications		
Operator Training		
Maintenance & Repair Training		
Storage		
Other: _____		
Vendor Discount		
Grand Total:		\$ 14,521.00

***For items requiring installation, requesters are required to check with District Purchasing (Victoria Lamica) regarding District policies.**

Part B: On-Going Annual Operating Costs

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Annual Service or Maintenance		
Estimated Parts Replacement Per Year		
Outside Standardization or Calibration Costs		
Storage Costs		
New Supply Costs		
Miscellaneous Costs:		
Maintenance & Repair Labor		
Other: Fuel/Oil	100.00	
Annual Operating Costs:		\$ 100.00

Indicate the source of funding for on-going annual operating costs:

Welding Department Supply budget

Part C: Incremental Labor Costs

Indicate the key operator: Students/Faculty

Is this in their current scope of duties? yes

Indicate cost to train key operator (include in Initial Start-up Costs above): 0

Indicate amount of time per month key operator will use equipment: 40-80 hours

Indicate the person performing maintenance and repairs: J Weston

Is this in their current scope of duties? yes

Indicate cost to train for maintenance and repairs: 0

Indicate amount of time per month maintenance will be required: 0.5 Hours

Funded requesters will be expected to respond to a brief RAC feedback survey by a requested deadline.

- ❖ **Requests for computer-related equipment and printers must be reviewed and signed off by the LPC IT Department.**
- ❖ **Requests that require M&O assistance with assembly or installation must be signed off by M&O**

Requester

Date _____

IT Department (if required)

Date _____

M&O Department

Date _____

Dean/Manager

Date _____

Vice President

Date _____

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Miller Trailblazer 302 Air Pak Welder 907549001

Code: 907549001



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Mfg Industrial Price: \$15,358.35
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Model:

Base ▼

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24 Questions & 24 Answers

Description	Accessories	Specifications	Ask & Answer	Reviews
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Description

Accessories

Specifications

Ask & Answer

Reviews



Miller® Trailblazer® 302 Air Pak™ Welder 907549001

The Miller® Trailblazer® 302 Air Pak™ is a 300 amp gasoline engine driven welder/13,000 watt generator with an integrated rotary screw air compressor. It is a powerful all-in-one tool that is designed for repair and construction with unbeatable multiprocess weld quality. The Trailblazer Air Pak's integrated rotary screw air compressor produces 31 CFM of air at 100% duty cycle with a range of 80 to 160 PSIG; all with no storage tank.

The Trailblazer 302 Air Pak supplies a full 13,000 peak watts and 11,000 continuous watts of pure, four pole AC generator power. Auxiliary power is completely independent, which means you have full generator power even while welding. The Trailblazer Air Pak also comes standard with battery charge/crank assist for charging 12 volt or 24 volt batteries or for up to 450 amps of jump start power. Battery charge/cranks assist controls are conveniently located on the front panel. (Charging cables NOT included).



Process

- Stick (SMAW)
- MIG (GMAW)
- Flux Cored (FCAW)
- AC/DC TIG (GTAW)
- Battery Charger/Jump Starter
- Air Carbon Arc (CAC-A) Cutting and Gouging (Capable 1/4" carbons, Rated 3/16" carbons)
- Air Plasma Cutting and Gouging (PAC) with Optional Spectrum Models (Rated 5/8" mild steel)

Applications

Industrial Applications
Fabrication
Maintenance and Repair
Structural Steel
Sheet Metal

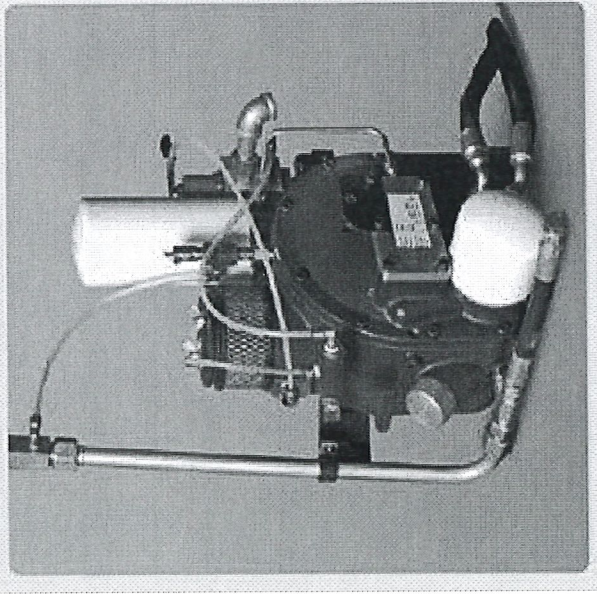
Features

- **Battery Charger/Jump Starter** - Provides selectable 12 or 24 volt battery charging capability. Provides up to 450 amps of battery jump-starting capability.
- **Three take-charge tools in one** - The all-in-one tool that delivers multiprocess output for welding, plasma cutting, gouging, and air tools.
 - Accu-Rated™ 13,000 watts of usable peak generator power
 - Professional welding performance in all processes with the best welding arc in its class.
 - Rotary-screw compressor delivers 31 CFM of air at 100% duty cycle
- **Requires Half the Space** - Takes only half the bed space of a separate engine-driven air compressor and welder, freeing up 50% more room on your truck for equipment and supplies.
- **Better Truck Payload** - Offers up to 25% less axle weight for payload advantage.

- **Strongest Combined Generator/Compressor Power** - Delivers an industry-leading 13,000 watts of peak generator power independent of weld settings - enough to power a Spectrum® 875 plasma cutter, and provide air for plasma cutting at the same time. (Rated 5/8" mild steel)
- **Easy to Service** - Side and top access doors make it fast and easy to reach engine and air compressor compartments. Digital maintenance meters automatically track hours, service schedules.
- **Lower Fuel Consumption and Emissions** - Air compressor, welder and generator are all run with one engine, reducing emissions and reducing fuel consumption up to 50%.
- **Ultra-Reliable Rotary-Screw Compressor** -

Industrial rotary-screw air compressor

- Runs most air impact wrenches at idle
- Produces 31 cfm of air at 100 percent duty cycle
- Delivers 80–160 psi of air with no storage tank
- Gives 100 percent deliverable air
- Compressor is warranted by Miller for three years



- **Deliverable Air, On Demand** - Produces 100% deliverable air at 80 to 160 PSIG when you need it: no more down time waiting for an external tank to fill. Airflow can be selected depending on tool requirements.
- **Front Panel Air Pressure Adjustment** -
- Simple to dial in the correct air pressure for specific applications (80-160 PSI)
- Increases engine power for more gouging and plasma cutting capabilities

Specifications (Subject to change without notice.)



Welding Mode	Process	Amp/Molt Ranges	Rated Weld Output at 104°F (40°C)*	Single-Phase Generator Power	Sound Levels at Rated Output 7 m (23 ft.)	Dimensions	Net Weight**
CC/DC	Stick/TIG	10–300 A	280 A at 32 V, 100% duty cycle	Peak 13,000 watts	2400 rpm (idle): 73.4 dB (98.4 Lwa)	H: 28 in. (838 mm)	774 lb. (350 kg)
CV/DC	MIG/FCAW	13–35 V	300 A at 32 V, 100% duty cycle 350 A at 32 V, 60% duty cycle	Continuous 11,000 watts	3000 rpm: 76.5 dB (101.5 Lwa)	H: 34.5 in. (876 mm) W: 20 in. (508 mm) D: 59.625 in. (1,514 mm)	
CC/AC	Stick/TIG	10–225 A	200 A at 25 V, 60% duty cycle	120/240 V, 100/50 A, 60 Hz	3600 rpm: 81.2 dB (106.6 Lwa)		
Battery charge/crank assist		12/24 V	Charge: 10–75 A Crank assist: 450 A, 12 V Crank assist: 350 A, 24 V				

*Rated at sea level. **Net weight without fuel.



Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

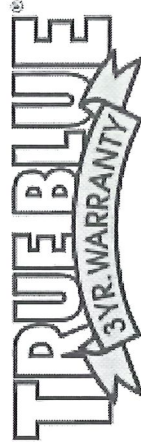
Air Compressor Specifications

Compressor Brand and Warranty	Features	Free Air Delivery	Working Pressure Constant	Duty Cycle	Oil Capacity	Automatic Compressor Shutdowns
Miller, 3-year warranty	Rotary screw with electric clutch for on/off, oil change intervals 500 hours	31 cfm (0.88 m ³ /min.) at 3,600 rpm 28 cfm (0.79 m ³ /min.) at 3,000 rpm 22 cfm (0.62 m ³ /min.) at 2,400 rpm (idle)	80–160 psig	100%	1.75 qt. (1.7 L)	High pressure (160 psi)

Engine Specifications (Engines warranted separately by the engine manufacturer.)

Engine Brand and Warranty	Horsepower (HP)	Type	Weld Speed	Idle Speed	Fuel Capacity	Oil Capacity	Standard Shutdowns
Kohler CH750, 3-year warranty	27 hp at 3,600 rpm	Twin-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline*	3,600/3,000 rpm	2,400 rpm	12 gal. (45 L)	1.75 qt. (1.7 L)	Low oil pressure

*Fuel stabilizer is recommended for gas engines that are used infrequently.



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Miller Trailblazer 302 Air Pak Welder
907549001

► Model : Base

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Price: \$5249.00
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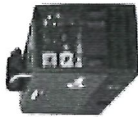
Miller Bobcat 200 Air Pak 907706
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Miller TIG/Stick Contractor Kit with RCCS-14 301311
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Miller Trailblazer 302 Air Pak w/Air Cooler/Separator 907549003
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