INSTRUCTIONAL EQUIPMENT REQUEST 2016-2017

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OCT 20 2016

Internal Use

IE #: __Fall 44

Total \$:_6,328.01

KECHAGADEMIC SERVICES COTT Miner	Division Name: CATSS
LAS FOODS	
SECTION 1: SUMMARY INFORMATION	
	and the second of the second s
Brief Title of the Request:	
Inverter Welding Power Supply #B	
	and all the space of the models of the payoff to give the second of the
Equipment Location Building: 800	Room: 810
.10	
SECTION 2: EQUIPMENT DESCRIPTIO	N Year to digital of
The equipment is: A Replacement An Up Describe the specific equipment requested and how technology to LPC from what is currently in place:	it will be used to replace, upgrade or provide new
Welding power supply that is used in a student welding (SMAW) and Gas Tungsten Arc Welding replace an existing power supply that was purchat outdated, and difficult to find replacement parts welliam.	sed in the Mid 1990's. The existing machine is tired
ex didense il con	
If applicable, describe the legal requirement, mand making specific reference to the legal requirement	late, or safety concern for purchase of this equipment or regulation:
N/A	

SECTION 3: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES

LPC MISSION STATEMENT:

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

LPC PLANNING PRIORITIES:

- Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- Provide necessary institutional support for curriculum development and maintenance.
- Develop processes to facilitate ongoing meaningful assessment of SLOs and integrate assessment of SLOs into college processes.
- Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.

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

Mission - Used to support students in the area of Career Technical Education, transfer, degree and retraining goals.

Priorities - Replacement of the existing equipment provides the necessary institutional support to maintain curriculum. Meaningful course and program level SLO's are completed with the existing machines. The SLO's are to complete an Industry Standard Welding Certification Test. Students use these machines to practice welding similar to a computer is to a coding class. The practice of the students in conjunction with coaching from others represents the CTE version of tutoring.

SECTION 4: EDUCATIONAL ITEMS - PROGRAM REVIEW

Specify the educational programs this equipment supports:

Welding Technology

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

"World Class Welding Instruction - Continuous Improvement"

"Extensive use of Welding Procedure Specifications (WPS) and Standardizied Testing for Midterms and Finals in most courses"

"One area of constant concern and need is to make sure that the equipment we use in all of our CTE programs are safe to use and similar to that in our respective trade, so that students are prepared for the proper workplace environment"

SECTION 5: TEACHING AND LEARNING

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

This machine will allow teaching of current equipment used in industry, along with advanced features, will help prepare the students for current and future careers. The controls on the new equipment is much simpler and easier to teach a student to operate. The machine has the ability to track welding data that is also impossible to do with the existing machine.

Describe in detail the impact this equipment will have on <u>learning:</u>

This machine will allow learning on current equipment used in industry.

The controls are much more logical and easier for the students to understand.

The new controls will match 16 other machines in the room so moving to different workstations now becomes easier for everyone in the lab space. Students can study the data that the machine collects.

Each academic year, this equipment will impact:

50+ # of classes/sections

500+ # of students

SECTION 6: OUTCOMES (SLOs)
Using your documented SLOs, specify how the equipment will enable student learning outcomes to be achieved?
This equipment is used to complete COURSE level SLO's in more than 75% of the welding courses. This equipment is used to complete one of our three PROGRAM level SLO's as well. Passing an Industry Standard Welding Certification Test
What are the consequences related to learning outcomes if request is not funded?
We will continue to use equipment in this workstation that is 20 years old and getting tired. Students will continue to attempt weld testing using the older equipment.
SECTION 7: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY
What is the potential life span of the requested equipment?
The existing equipment is more than 20 years old, it is a "durable good"
If new storage is needed, describe the storage, location, and costs: (Specific storage costs should be detailed in the "Part A: Initial Start-up Costs" section below.)
N/A
What will be required to maintain the equipment, such as regular servicing or upkeep? (Specific on-going costs should be detailed in the " <u>Part B: On-Going Annual Operating Costs</u> " sections below as applicable.)
Minor occasional maintenance, should operate trouble free for years
Explain how this equipment meets or exceeds basic sustainability efforts and/or provides renewable
resources to the college:
The machine is made from materials that can be 100% recycled at the end of its usable lifespan. The old machine will be 100% recycled. All of the Steel, Aluminum and Stainless Steel that students use
with this machine is recycled as well. The new machine will draw about 15% less power than the existing due to the inverter technology.
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Part A: Initial Start-up Costs

Item	Cost	<u>Comments</u>
Equipment or Materials	4,979.00	
Taxes (9.5%)	473.00	
Shipping or Delivery Charge	0.00	
Installation Costs *	0.00	Instructor & Technician installed
Miscellaneous Costs:		
Facilities Modifications		
Operator Training		
Maintenance & Repair Training		
Other: Torch Kit w/Foot Control	800.00	
Vendor Discount		
Grand Total:	6,252.00	

Part B: On-Going Annual Operating Costs

Item	Cost	<u>Comments</u>
Annual Service or Maintenance	0.00	
Estimated Parts Replacement Per Year	0.00	
Outside Standardization or Calibration Costs	0.00	
Storage Costs	0.00	
New Supply Costs	0.00	
Miscellaneous Costs:	20.00	
Maintenance & Repair Labor		
Other:		
Annual Operating Costs:	20.00	

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

i	
	Development Cumply Dudget
1	Department Supply Budget
1	•
a	

Part C: Incremental Labor Costs	
OPERATOR:	
Indicate the key operator: Students & Instructors	
Is this in their current scope of duties? Complete Education	onal Goals
Indicate cost to train key operator (include in Initial Sta	rt-up Costs above): 0
Indicate amount of time per month key operator will use	e equipment: 160+ Hours
MAINTENANCE & REPAIRS:	
Indicate the person performing maintenance and repair	s: Welding/Auto Department Technician
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: less than 15 minutes
SECTION 8: APPROVALS	
Funded requesters will be expected to respond to a brie	f RAC feedback survey by a requested deadline.
Requests for computer-related equipment and printers	must be reviewed by the LPC IT Department.
Signatures:	10/17/14
Requester	Date
IT Department (if required)	Date
Dean/Manager	10/20/16 Date
Via President	10 124 /16 Date
Vice President	AP

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ALLIANCE
Atlas Welding Supplies

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Tracking Number 10/14/2016 Quote Date

Ship To:

CHABOT LOS	POSITAS
SCOTT MI	NER

ALLIANCE/JANCO W/S 501 Auzerais Avenue San Jose, CA 95126 408-271-3800

408-271-3813 (FAX)

ALLIANCE W/S 800 Greenville Road Livermore, CA 94550 925-449-9353 925-449-9356 (FAX)

ALLIANCE/ATLAS W/S 1224 Sixth Street

ALLIANCE/CONTRA COSTA W/S

Berkeley, CA 94710

1135 Erickson Road Concord, CA 94520

510-524-5117 510-524-9098 (FAX)

925-685-8928 (FAX)

Issued By:

LHUTTON

925-685-8921

Location:

LIVERMORE

ITEM	QTY	PART#	DESCRIPTION		PRICE	E	XTEND
1		LIN-K2073-Z	PUWERWAVE COOL BASE MODEL	\$	5,076.00	Ì	- 5,076.0 0
<u>1</u>		LIN-K2774-2	POWERWAVE COUNTEREADY PAR	3	2,822.00	-\$	5,833.0 0
3	1	MIL-907514003	DYNASTY 280 DX W/INSIGHT	\$	4,978.89	\$	4,978.89
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5				-			
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;	SUB TOTAL	\$ 13,887.89
DELIVER	Y CHARGE	\$ -
SALES TAX		
TOTAL	\$	1 5,887. 89

NOTES:	

^{*} This quotation is good for 30 days from the date shown above

Maxstar 210/280 Series of the and stick

See literature no. DC/32.1 (210) and DC/35.0 (280)

Dynasty® 210/280 Series AC/DC TIG and Stick

See literature no. AD/4.81 (210) and AD/4.9 (280)

210 Series TIG Welding Capability

Max. 1/4 in. (6.4 mm)

Steal

Min. 0.002 in. (0.05 mm)

Max. 1/4 in. (6.4 mm)
Aluminum
(Dynasty only)
Min. 0.012 in. (0.3 mm)

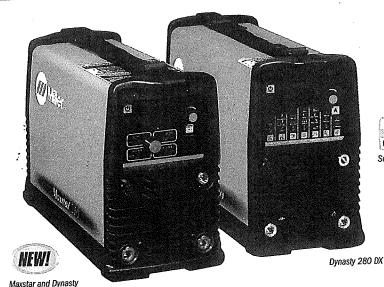
280 Series TIG Welding Capability

Max. 3/8 in. (9.5 mm)
Steal
Min, 0.004 in. (0.1 mm)

Max. 3/8 In. (9.5 mm)

Aluminum (Dynasty only)

Min. 0.012 in. (0.3 mm)



WIRELESS
COMPATIBLE
See page 113

Base and DX models available. Base model provides essential TIG and stick functions. DX model adds extended ranges to sequencer, full trigger options, and full preflow and pulser functions.

Note: See page 49 in the Stick section for Maxstar 210 STR.

Allows for any input voltage hook-up (210 models: 120–480 V, 280 models: 208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Blue Lightning high-frequency (HF) are starter for non-contact are initiation. Provides more consistent are starts and greater reliability compared to traditional HF are starters.

Lift-Arc™ provides AC or DC arc initiation without the use of high frequency.

Hot Start" adaptive control provides positive arc starts without sticking.

Auto-postflow adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

Pro-Set eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

Sleep timer conserves electricity. This programmable feature will power down the machine if it sits idle for a specified time.

Update and expand. Front panel memory card data port provides the ability to easily update software and expand product features.

Optional cooler power supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate¹¹ 1.3. Not available on Maxstar 210 Series.

Optional Cooler-On-Demand[™] feature operates the auxiliary cooling system only when needed, reducing noise, energy use, and airborne contaminants pulled through the cooler. *Only available on CPS models.*

*Refer to owner's manual for 208-volt output ratings and duty cycle.

**Sense voltage for low OCV stick and Lift-Arc* TIG.

	Model/	Welding		Welding	Rated Output at 60% Duty Cycle	Amps	input a	t Rated 230 V	Load O 240 V	utput, 5 400 V	60/60 H 460 V	iz 480 V	575 V	KVA	KW	Max. Open- Circult Voltage	Dimensions	Net Welght
	Stock Number	Process	Input Power	Amp Range			14		12	7		6		5.2		80 VDC	H: 13.6 in.	38 lb.
	Maxstar 210	TIG	3-phase	1-210	210 A at 18.4 V							10		4.9	49	(11 VDC**)	(346 mm)	(17.2 kg)
	(#907 683)		1-phase	1-210	210 A at 18.4 V		24		20	12		10				_	W: 8.6 in.	
	Maxstar 210 DX		1-phase (120 V)	1-150	125 A at 15 V	22	-			_				2.6			(219 mm) D: 19.5 in.	
ji ji	(#907 684)	Stick	3-phase	5-210	160 A at 26.4 V	-	15	_	13	8	-	6	_	5.5	5.2		(495 mm)	
Maxstar		Suck	1-phase	5-210	160 A at 26.4 V	_	26		22	13	-	11	_	5.3	5.3		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		1			90 A at 23.6 V	23				_	_	_		2.8	2.8			
_ ප			1-phase (120 V)	5-100	90 A at 23.0 V	23		and the same of th	CALL STATE OF THE					6.2	6.0	60 VDC	H: 13.6 in.	47 lb.
A	Maxstar 280	ΠG	3-phase	1-280	235 A at 19.4 V	-	17	15		9	7			0.2		(11 VDC**)	(346 mm)	(21.3 kg)
	(#907 552)		1-phase	1-280	235 A at 19.4 V*	-	28	26	_	15	13	-	10	6.0	6.0	,	W: 8.6 in.	50 lb.
a a	(#907 538) with CPS		1 phoso	ļ		-	20	18		10	9		7	7.2	7.0		(219 mm)	(22.7 kg)
	Maxstar 280 DX	Stick	3-phase	5-280	200 A at 28 V	ļ -	20	10		10						-	D: 22.5 in.	with CPS
	(#907 553) (#907 539) with CPS		1-phase	5-280	180 A at 27.2 V*	-	30	27	-	15	13		10	6.2	6.2	<u> </u>	(569 mm)	

210 Series (Maxstar 210 shown).

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