INSTRUCTIONAL EQUIPMENT REQUEST 2016-2017

2016-2017

OCT 20 2016

Internal Use

IE #: _Fall 45

Total \$: 6,328.01

200	HC SERVICES
LAS POS	Name: Division Name: CATSS
1	The property of the property o
ECTIO	1: SUMMARY INFORMATION
	the Request:
inverter vv	ding Power Supply #C
in the first	
Equipment	Cocation Building: 800 Room: 810
SECTIO	2: EQUIPMENT DESCRIPTION
	- Now Equipment/Technology
The equip	TILIS. E A Replacement E 1 The opposite to
technology Welding p Welding (s	specific equipment requested and how it will be used to replace, upgrade or provide new to LPC from what is currently in place: wer supply that is used in a student welding workstation. Used for Shielded Metal Arc MAW) and Gas Tungsten Arc Welding (GTAW). The new machine requested would existing power supply that was purchased in the Mid 1990's. The existing machine is tired, and difficult to find replacement parts when needed.
	e de l'orginale de la company de la company de la company de principal de la company de la company de la compa Lagrante de la company de l La company de la company d
If applica	e, describe the legal requirement, mandate, or safety concern for purchase of this equipment, cific reference to the legal requirement or regulation:
N/A	and the second of the second o
paginative exact transfer	
8	

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

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 "Part B: On-Going Annual Operating Costs" 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.
3

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	0.00	
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:

Department Supply Budget

Part C: Incremental Labor Costs	
OPERATOR:	
Indicate the key operator: Students & Instructors	
Is this in their current scope of duties? Complete Education	nal 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	equipment: 160+ Hours
MAINTENANCE & REPAIRS:	
Indicate the person performing maintenance and repair	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 brief	f RAC feedback survey by a requested deadline.
Requests for computer-related equipment and printers	must be reviewed by the LPC IT Department.
Signatures:	
	10/17/16
1 Ch	,
Requester	Date
IT Department (if required)	Date
	10/20/16
Dean/Manager	Date
S. S. E.	10/24/16
Vice President	Date

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ALLIANCE	
Atlas Welding Supplies	

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OHOTE

Tracking Number	
Quote Date	10/14/2016

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	

Berkeley, CA 94710 510-524-5117

510-524-9098 (FAX)

ALLIANCE/CONTRA COSTA W/S

Concord, CA 94520 925-685-8921

1135 Erickson Road

925-685-8928 (FAX)

Ship To:	CHABOT LOS POSITAS
	SCOTT MINER

LHUTTON Issued By:

LIVERMORE Location:

ITEM	QTY	PART #	DESCRIPTION		PRICE	EXTEND			
1 1 1 1 1 1	411		PUWERWAVE COUD DASE MODEL	-	5,076.00	3	5,076.0 0		
1	1	LIN-K2073-Z				-	5,833.0 0		
2	I	LIN-K2774-2	POWERWAVE COUNTEREADY PAR	1					
3	1	MIL-907514003	DYNASTY 280 DX W/INSIGHT	\$	4,978.89	\$	4,978.89		
4				-		<u> </u>			
5				ļ		-			
6				\$	-	\$	-		
7				\$	-	\$			
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14				\$		\$	-		
15				\$		\$			
16		AND THE RESERVE OF THE PARTY OF		\$	-	\$	-		

\$	SUB TOTAL	\$ 15,887.89
DELIVER	\$	
SALES TAX		
TOTAL	\$	1 5,887.8 9

NOTES:	

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



Maxstar 2.10/280 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)

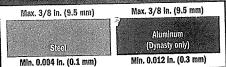
Steel Min. 0.002 in. (0.05 mm)

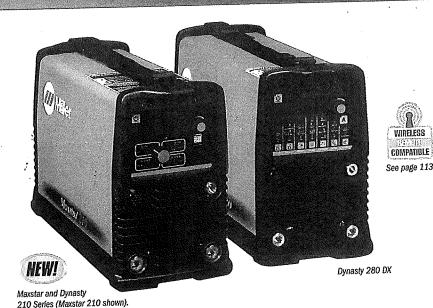
Max. 1/4 in. (6.4 mm)

Altuminum
(Dynasty only)

Min. 0.012 in. (0.3 mm)

280 Series TIG Welding Capability





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 Coolmate" 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.

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

**Sen	se voltage for low UCV s	UCK AND LIF	AIC IIG.			•		t Rated	Lood f	intmit i	50/60	 Ит				Max. Open-		Net		
	Model/ Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	120 V	10put a 208 V	230 V	240 V	400 V	460 V	480 V				Circuit Voltage	Dimensions H: 13,6 in.	Weight 38 lb.		
	Maxstar 210	TIG	3-phase	1-210	210 A at 18.4 V -	-	14	-	12	7		6	_	5.2		80 VDC (11 VDC**)	(346 mm)	(17.2 kg)		
	(#907 683)		1-phase	1-210		T-	- 24	24 - 2		20 1	12		10		4.9		W: 8	W: 8.6 in.		
	Maxstar 210 DX (#907 684)		1-phase (120 V)	1-150	125 A at 15 V	22	-	_		_					2.6	(219 mm) D: 19.5 in.				
		Stick	3-phase	5-210	160 A at 26.4 V	160 A at 26.4 V	-	15	_	13	8		6			5.2	-	(495 mm)		1
			1-phase	5-210		A at 26.4 V -	26	-	22	13		11			5.3	4				
			1-phase (120 V)	5-100	90 A at 23.6 V	23	_			_		_	_		2.8		111, 40.015	47 lb.	4	
	Maxstar 280	II TIG	3-phase	1-280	235 A at 19.4 V	-	17	15	-	9	7	_	6	6.2	6.0	60 VDC H: 13.6 in. (11 VDC**) (346 m		(21.3 kg)		
	(#907 552)	""	1-phase	1-280	235 A at 19.4 V*	1-	28	26		15	13	-	10	6.0	6.0	(22.55)	W: 8.6 in.	50 lb.		
	(#907 538) with CPS			5-280	200 A at 28 V	 	20	18		10	9	_	7	7.2	7.0	,	(219 mm) D: 22.5 in.	(22.7 kg) with CPS		
	Maxstar 280 DX (#907 553)	Stick	3-phase			 	30	27		15	13		10	6.2	6.2		(569 mm)	WILL OF G	-	
	(#907 539) with CPS		1-phase	5-280	180 A at 27.2 V*		30	21								1	4	1		

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

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Apparatus and	TAX ID#	3	DIVISION/DEPARTIMENT	N STOCK NI IMB		ナデジンン									0.00))					nclude current taxes unles		ACCT	
GE Equipment,	ne & ssn.		DATE WRITTEN DATE REQUIRED	4 22 T		3 X C									(2)		4,	notate .			e attached for payment. In		FUND ORG	
LAS POSITAS COLLEGE Equipment, Apparatus and Service Requisition	FOR REIMBURSEMENT: List payee name $\&$ ssn.	TE-5.22	Carlo Carlo	à	ONT.		して本文として							Vendor Information/ Remit 10:	12 L	3	力のででで		Comments:		origing and receints must be attached for narment. Include current taxes unless incorporated in price.			d.

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