

FACILITY EQUIPMENT LIST

Last Updated: 08/16/2017

QUANTITY	MANUFACTURER	DESCRIPTION	CHAMBER SIZE
3	EBE Beamer	2 x 60 KV 3 KW Electron Beam Welders 1 x 60 KV 5 KW Electron Beam Welders	12" Cube
2	EBE Beamer	60 KV 3 KW Electron Beam Welder. Fitted with high magnification optics, CNC 3 axis work manipulation, wire-feed, and 9" diameter x 72" extension tubes.	18" Cube
1	EBE Beamer	60 KV 5 KW Electron Beam Welder. Fast pump system and beam tracking and pulsing. CNC 3 axis (4 th option for beam focus control). XY & rotary.	24" x 24" x 27"
1	EBE Beamer	60 KV 5KW Electron Beam Welder, with chamber extension tubes. Fast pump system, circle generator, CNC 4 axis capability, high magnification optics.	39" cube
1	EBES	Data Logger for Beam Parameter recording on any Electron Beam Welder	
1	Miller	Syncrowave 351 G.T.A. Welder. (AC/DC) Microprocessor controlled with cold wire feed.	
1	Miller	Maxstar 152 (DC) G.T.A. Welder	
1	Miyachi Weldmatic	500 joules Resistance Spot Welder.	
1	Miyachi	Model HF25 Resistance Spot Welder with manual and air operated weld heads. Weld quality control package included.	
1	LaserStar	LaserStar iWeld Laser System (G3) 990 Series	
1	LaserStar	LaserStar 1900 XL 200W 150 Joule Laser	
1	IPG 450	IPG 450/4500 Fiber Laser	
1	RMI UF-20	RMI UF-20 Laser Marking System	
2	Lumonics	JK-700 400 watt pulsed YAG Laser Welder with 2 fiber optic delivery systems connected to: CNC X-Y-Z-Rotary workstation	24" x 24" travel

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1	IPG 4KW	4KW Multimode Ytterbium Fiber Laser System	Gantry System 6ft x 4ft
4	Varian	Helium leak detector. Sensitivity 1×10^{-10} atm cc/sec. Sniffer and "Bomb" testing as well as component evacuation. Certified to National standards. Model: VSMR15 Model: VSMD301 Model: 979 Model: 956	
1	Lucifer	Heavy Duty Air Recirculating Furnace Model: 42-R30	24"H X 24"W X 30"L
1	LR Technologies	Vacuum oven Model LN-63	
2	ProUltrasonic	Ultrasonic Cleaning Equipment	
1	Vixen	Aquablast 1215 wet blasting machine to harmoniously degrease and blast many sizes of components.	
1	RMI Laser	UF-20 fiber laser for laser marking	
1	Watson	Watson M1 XRF Unit for detecting material type/composition.	
Metallurgical Lab		Allied Hi Tech Products Sectioning, Mounting and Polishing Equipment.	
Machine shop (Tooling)		Lathes, Mills, Band-saw, Drill Press etc.	
Electron Beam Engineering Services (EBES)		Repair & Development. Specializing in EB Welders and accessories. Contact directly at (714) 917-0385.	
Q.A. Department		Microscopes, digital meters, test equipment for 60 KV power supplies, granite table, height gauge, micrometers, calipers, gauge blocks, dial gauges, borescope. "Precision Measuring Microscope" of 2D parts with dimensional data logging and photographs. FALCON 3 AXIS SYSTEM	