

INVENTORY LIST

Solar Panel Manufacturing Equipment – Bidding Closes 6/26/20 at 1:00 PM CDT

Manufacturer	Model	Description
Akrion	V3 Solar Wet Bench System 84"	Lot of (1) Akrion Solar Wet Bench System 84" Model :V3 with (1) support section with controllers and compartments with (1) Pallet of miscellaneous Monitor, Glass and parts.
Applied Materials	Baccini Softline 2.0	Lot of (1)Applied Materials Baccini Screen Printer System (2014) Dual Screen Print Line Model: Softline 2.0 , (2) 4 Station Rotary Print Units,(1) GP Solar inspect Chrome G Print-QFS.CAM Inspection Station(1)ISRA Vision GP solar print-Q,SF Inspection system., (2) Drying Ovens,(1) Automatic Unloader (1) Automatic unloader (1)Transfer module. (1) SMC Hee-A thermal electric air cooled chiller system. Screen printer line within Softline 2.0 production line.
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Asys	SES 01CS	Lot of (1) Asys Test and Sort System. Model: SES 01CS Test and Sort Tool, with Wafer Inspection and Tester island, cassette sorter. One SES 01CS loading unit for 6 (16) magazines.{Please note lease 12/PO# 2014-7129 Sensable ASYS and PO# 2014-6922 HPM included) - Two sorters 8 cassette each, extension with one place and tum system
Boostsolar	BSL22360AC-III Automated Solar Module Laminator	
Bruce Tech	BDF-41 furnace	
BTU International	361-7-228N48DR361 TCA Series controlled atmosphere furnace	ot of (1) BTU International furnace oven Model:361-7-228N48DR361 TCA Series controlled atmosphere furnace. With Fortix Automatic Wafer Load and Unload MODEL FWTF-300, 10 foot conveyor, automated load/unload.
CAM/Alot	5000 adhesive solder system	
Complete Probe Sol	R4090U+ Wafer Probe Station	no microscope; National Instr cables
EPI tool	EPI tool and BCDS scrubber	scrapped
Four Point	280SI resistivity mapping system	Four Dimensions Four-Point Probe Resistivity Mapping System Model:280SI Automated Sheet Resistivity Meter 1mOhm I square to 800 kOhm I square extended range up to 8x1011W/sq. temperature compensation option up to 8" wafer capability or 156mm x 156mm
Homeline	HOM6-12L100	Light Soak System Aluminum Frame 9'L X 4W X8' H with one crate with (20)+ Lamps and concrete blocks

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InnoLas	ILS TT-DS Laser Processing	Lot of (1) InnoLas Laser Processing Station Model: ILS TT-DS InnoLas High Throughput Full Production Laser System. Turntable machine loading, unloading, alignment for high volume PV production. With Coherent Rapid HR 50 Laser System with zero air generator model# LPG2, coherent HB power supply, coherent control model# 1262292
InnoLas	ILSTI-DS Laser System	Lot of (1) (2011) Innolas Systems GmbH Las+C3:047er System Model: ILSTI-DS S/N:P761 InnoLas High Throughput Full Production Laser System. Turntable machine alignment for high volume PV production. With Coherent Rapid HR 50 400V.3PH.N-PE. Schematics:P761-K00 1 Accuracy !;!+/- 35 µm (1 sigma) < +/- 10 µm optionally < +/- 2 µm repeatability mono or poly crystalline silicon square/ pseudo square, ceramic. Wave length:1064,1030, 532 , 515, 355 nm Laser spot size 10 - 300 µm Dimensions with Automation 2400 x 1600 x 2300 mm 3600 x 3500 x 2300 mm Weight 3500 - 4200 kg Power supply 260 - 480 V Compressed dry air 6-7 bar Cooling water 5 - 20 l/min
GP Solar	Isra Vision Matrix Inspector GP Solar Lamination optical inspection	Lot of (1) Isra Vision automated GP Solar Lamination Optical inspection System. Model: Matrix Inspector Laser Optical Inspection camera Matrix with automated X and Y Motion. Custom made heavy duty aluminum frame fixture with aluminum frame table 8' x 4'.
Koneo	CXT30410032P25FALOS crane system	(2015) Koneo Crane System Model:CXT30410032P25FALOS CAP.3.2 Ton. Duty class:2M.Height of lift;19'-8 1 1/4" Trolley Speed:65/- FPM. hoist speed:20/3.3 FPM Hoist motor 1X4.3Kw Traversing motor.1 X.37 Kw
Lauffer	Multilayer Vacuum Lamination Press	Lot of (1) Lauffer (2014) Multilayer Vacuum Lamination Press; two laminating presses each with 20 hot openings , One cooling press, automatic loading/unloading shuttle. J&R automation system. Ladder, Platform and miscellaneous spare parts. Normal max. Temperature is: 540°F;also available up to 750°F Modular System: Possible as standalone or can be incorporated into an automatic line Automatic & Manual loading is possible Single ram design, simple to service Welded press frame with excellent vacuum retention Excellent hydraulic pressure control at very low pressure (when needed) Various standard platen sizes available as well as custom sizes

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Leybold Optics	Pegasus PVD	Lot of (1) Leybold Optics PVD Sputtering System Model: Pegasus PVD (2015) PVD - Buehler Sputter Tool, equipped with two magnetron cathodes for DC- and MF sputtering . Ion source Gpi PPALS 203.(2) Dis 2000V chambers, (2) Huttinger Elektronik TruPlasma DC3050, Advanced Energy DC Pinnacle power supply. (6)Shimadzu, EI-D 303M suitable pump controllers, (2) AOL model GSW 300/500 power supplies, Pallets of spare parts cables and platform
Master	Laminator	
MEI LLC	Achieve 92"	
MEI LLC	Achievement	Lot of (1) MEI LLC wet processing system Model: Achievement Wet bench for final cleaning SIN 7657
Precision Placement	pick and place system	
Protemp	Gas Cabinet	with SEMI mass flow controllers and (2) gas panels with (6) inlines input and output
Quad	QVS-1 placement system	
Radiant PC Equip	solar frame machine	
Roth & Rau	MAIA PECVD	Lot of (1) Roth & Rau Meyer Burger Multiple Application in line coating System PECVD Deposition Tool. Model: MAIA (2014) PECVD tool for deposition of SiNi anti-reflective layer on front of solar cell, the passivation of the rear surface for the passivation emitter and rear cell PERC. Also allows plasma-based texturing of wafer surfaces and coating deposition for HJT solar cells. Front Passivation. 1)- Edwards vacuum pump Model:iXH-4545TH (3) Edwards vacuum pump Model:iXH-4545TH 1) Edwards vacuum pump Model:iXH-6045TH (2) Herbert Barth Transformers Motorized Aluminum frame load and unload cables and connectors. Approx.. 22 Pallets and crates please inspect.
Roth & Rau	PECVD	Lot of (1) Roth and Rau Meyer Burger Model: SiNA is a proven PECVD reactor designed especially for providing SiN layers with anti-reflective coating. (4) Edwards vacuum pumps mechanical booster Model:GV801EH1200 Aluminum frame load and unload system. all the control panels and skids of spare parts Please inspect.
Roth & Rau	SOI+ surface treatment system	Lot of (1) Roth & Rau Meyer Burger UV Surface treatment System Model: SOI+ S/N:28047-A-02. (2014) 3 Chambers with lamps Surface Quality Enhancement tool for silicon PV production. UV Surface Treatment. Throughput up to 3,600 wafer/hr ., wafer thickness 120-300 microns. Front Passivation
Schmid Systems	5K26-220C120-22 APCVD	Lot of (1)Schmid APCVD Tool Model 5K26-220C120-22 APCVD (Atmospheric Pressure Chemical Vapor Deposition)5 chamber APCVD tool, 2 hot presses each with 20 openings, plus a cooling press. Fortix, loader/unloader FWTF-300

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Schmid Systems	AL-TEX980 wet bench 62"	Lot of (1) Schmid Systems Inc. Wet Bench 62' 6 Sections with digital control panels Model:AL-TEX980 SIN 62-11-0930
Sensible Motion	SM1024-01 Motion Wafer Prober	Lot of (1) Sensible Motion Wafer prober Station. Model:SM1024-01. S/N:150128-001 With Containex safety light curtain system. six positions plates.. Monitor and accessories.
Singulus	Linea wet process etch	Lot of (1) Singulus Inline Wet Process system Model: linea (2015) Automatic Wet Process Equipment Inline coilwafer, (linex Inline Wafer silicon etch back tool)
Singulus	Silex SDE800 wet processing	Lot of (1) Singulus Modular, automated wet processing system Model Silex SDE800 S/N P-000145-0-3 02-01 for batch cleaning and etching in standard and high efficiency cell technology (PERC,HJT,IBC).Five chambers with two automated conveyors, Siemens simaticrack pc.
Spire	SIM3113SLP Sun Simulator	Lot of (1) Spire Corp, Sun Simulator Model:SIM3113SLP Modular flash tester For high volume production solar Modules with Main control panel and power supply.240v 3PH 60 Hz.
TP Solar	D-225 IR furnace	IR furnace; dope/anneal
TP Solar	M-225L IR furnace	IR furnace; dope/anneal
Via Mechanics	LC-2LA252E(TOKU)	Laser Drilling Machine Model:LC-2LA252E(TOKU) (2014)MFG:K501410001 Two beam 340W laser drilling machine. Table size 813mm x 1310mm
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Wafab Intl	29 PVC-C wet bench	Front Access Wet Bench Model:29 PVC-C S/N:15938-01 Flammability rating :FM4910
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