



### Current Inventory List

Supplier	Model # / Description	Ref #	Price
A&D Engineering	HX-100 – Analytical balance with 101g capacity and .1mg readability	R-2955	\$1,500.00
AB-M, Radiation Power Systems	2130 2KUV-C2 – 2kw Hg arc lamp power supply	R-3996	\$2,500.00
AB-M, Radiation Power Systems	2142-C2 – 2Kw Hg arc lamp supply, CE marked for European market	R-4156	\$4,950.00
Accent Optical	PLM-100 – Scanning photo luminescence mapping tool, Coherent Tutcore	R-3716	\$29,500.00
Accent Optical	RC2400 – Reaction chamber for preparation of Ohmic and Schottky contacts, maximum temp 680C	R-3553	\$5,900.00
ADE	1239B-3 – 75mm wafer positioning ring for ADE 6034	R-1857	\$1,200.00
Advanced Energy	3151801-003B – Rapid F 6KW remote plasma source, AMAT pn 0190-13025, PN 0190-08638, water cooled, 208v/3p	R-4115	\$4,200.00
Advanced Energy	AZX-90 – MN 3155031-004A Impedance matching network	R-4113	\$4,200.00
Advanced Energy	MDX 10k – DC Magnetron 10kw power supply	R-1770	\$4,500.00
Advanced Energy	RFX-1250 – 13.56mhz Rf, 1250 watts power supply	R-337	\$3,500.00
Advanced Energy	RFX-2500 – 13.56 mhz Rf, 2500 watts, impedance matching network	R-338	\$4,000.00
Advanced Energy	RFXII 5500 – High frequency 13.56mhz, 5500w Rf generator	R-2071	\$9,500.00
Advanced Energy	TCM II – TCM II accessory provides manual control of an AZX style tuner	R-3407	\$1,200.00
Advanced Energy/Dressler	Cesar 4020 – 2kw, 40.68MHz, 200v/3ph, 50/60 3x10.5amps	R-3799	\$9,500.00
Advanced Engineering	951 – UV curing system for max 200mm wafers, timer, UV-intensity meter, lamp hour and status indicator	R-3981	\$9,500.00
Advanced Imaging	custom – Rough lap station, digital slurry timer, motor timer, RPM gauge	R-1942	\$4,900.00
Advanced Integrated Technologies	HB-432-216-I600	R-4017	Call
Advanced Integrated Technologies	SLD-5-AIT-770	R-4014	Call
Advanced Integrated Technologies	SLD-5-AIT-770-SPL	R-4015	Call

## ETS Products Catalog (as of January 07, 2011)

Advanced Integrated Technologies	SLD-9-AIT-900	R-4016	Call
Advanced Integrated Technologies	SLO-5-AIT-250/150-SPL	R-4013	Call
Aerotech	ART100-UF – 360 degree rotation stage	R-3182	\$3,600.00
Aerotech	ATS 03005-M-5 – XYZ linear ball screw stage with 2" travel per axis, metric mounting and holes	R-3208	\$4,500.00
Aerotech	ATS100-100 (2), FS14473 – 3 axis xyz stage, 0.5u resolution 100mm travel, 0.5um resolution, DC brushless servo motor	R-3209	\$4,500.00
Aerotech	ATS150-100	R-3906	\$2,500.00
Aerotech	AVS-105 – 5mm vertical travel, 0.1um resolution, 10kg capacity,	R-3210	\$3,000.00
Aetrium	9000	R-3842	Call
Air Products	Gasguard AP3, 801-4706435 – Hydrogen distribution box with 4 channel manifold	R-2996	\$16,500.00
Alcatel	180TD – 10l/s molecular drag pump(MDP) with 2.5cfm diaphragm backing pump, 5.1 x 10-12 minimum detectable lea	R-3322	\$14,000.00
Alcatel	2012AC – Chemical pump, 11.0cfm	R-1962	\$1,500.00
Alcatel	2021CP – Fomblin prepped 14.6cfm roughing pump	R-1985	\$3,200.00
Alcatel	2033CP – Chemical pump, 27.-cfm	R-1961	\$1,950.00
Alcatel	2063 – rotary van pump, Fomblinized	R-384	\$2,500.00
Alcatel	2063C – Chemical pump, 50.0cfm	R-1960	\$2,800.00
Alcatel	2063C – Mobile pumping module with 50cfm fomblin pump and diagnostics	R-2275	Call
Alcatel	5080 – turbo pump	R-417	\$1,500.00
Alcatel	5081 – turbo pump	R-1675	\$1,850.00
Alcatel	5150CP – turbo pump	R-1679	\$3,900.00
Alcatel	5400 – 400 l/s N2, water cooled, conflat UHV inlet	R-3908	\$3,500.00
Alcatel	68785 – oil mist filter	R-410	\$650.00
Alcatel	ACT 1300M – ACT turbo controller with electronic monitoring	R-4024	\$3,900.00
Alcatel	ADP 81 – 47cfm dry pump	R-2348	Call
Alcatel	ADP-81 M3 – 47cfm dry pump with gas purge	R-2347	Call
Alcatel	ASM120H – Portable leak detector with molecular drag pump and sensitivity range of 1x10-9 to 1mbar	R-2646	\$11,900.00
Alcatel	Drytel 34 – 5011CP drag pump with Elnik dual diaphragm pump, 110v	R-3921	\$5,500.00
Alessi	Custom – Probe base plate with vertical post, B&L stereozoom 4, and 200mm vacuum chuck	R-2909	\$3,200.00
Alessi	ECT-01 – 200mm thermal Thermal chuck with digital controller, ambient to 200C	R-4084	\$2,500.00

ETS Products Catalog (as of January 07, 2011)

Alessi	MJ1 – Joystick micropositioner for probing 5–8micron geometries	R–4070	\$425.00
Alessi	REL–2100 – Analytical probe station, 5.75"x5.75" xy stage travel, 4"/5" vacuum chuck, 1" platen, Z travel	R–4124	\$8,500.00
Alessi	REL–4100A – Prober with 150mm vacuum chuck, Mitutoyo microscope, and LY1 YAG laser	R–3741	\$26,000.00
Alessi/Cascade	REL–4800 – 200mm manual prober with Mitutoyo FS–60 microscope	R–3876	\$25,000.00
Alldos	M205–1.6 D02/V01/E05/P02 A08 – Diaphragm dosing pump with max 0.51gph@145psi	R–1492	\$650.00
Allen Instruments	705E–XY – XY Recorder with 1V/in. input, 110v	R–3441	\$350.00
Allied Tech	TechPrep – 350rpm polisher	R–3121	\$5,900.00
Alpha Omega Instruments	Series 2000 – Percent O2 analyzer	R–3938	Call
American Optical	Auto Abbe – Digital refractometer	R–3688	\$2,500.00
American Probe & Technologies	WC–5250 – Heated clamping workholder with digital temp display	R–2621	\$1,950.00
American Ultraviolet	IR–1000NF, PC–10–1–HZ – 1000w portable UV irradiator, 100/250/300wpi	R–3125	\$1,100.00
Ameritherm	NOVA 1 – 1KW @ 50–450Khz, SPCH–5 water cooling unit, includes 2 heat stations	R–3555	\$4,500.00
Ametek	Accuforce Elite E500 – 500lb motorized tensile/compression test stand with 0–500lb digital force gauge	R–3294	\$4,900.00
Ametek	MA100C – 0–100amu analyzer	R–1763	\$3,200.00
Ametek	ML4432–1 Accuforce II – digital force gage	R–1580	\$750.00
Ametek	RM – 500lb test stand with 0–100lb analog gauge	R–1581	\$1,475.00
Ametek	TM–1A – trace oxygen meter	R–1331	\$1,500.00
AMPAC	AP3000SM – 5.6gal/hour, R/O system with carbon prefilter, (4) each TFC 4"x40" membranes,	R–4150	\$4,700.00
Anatel	A–100P – TOC analyzer	R–1385	\$1,500.00
Antek	707C – nitrogen analyzer	R–1386	\$2,500.00
Anza	260 – microprocessor controlled wire bonder for bare or insulated wire	R–718	\$4,900.00
Apollo	101 – laser power meter, 0–100w	R–1456	\$1,400.00
Applied Materials	0010–10631 – New non–heated throttling valve assembly, pn 0010–10631	R–3521	\$1,500.00
Applied Materials	Excite – High Speed Particle Detection System for Bare or Patterned Wafers	R–3474	Call
ASM	AB339 – Fully automatic fine pitch gold wire ball bonder	R–3177	\$34,000.00
ASQ Technology	AT252PP – Wafer transfer tool configured for 50mm (2") wafers	R–3337	\$1,950.00
Assembly Technologies	MA1100 – Programmable dicing saw for up to 150mm wafers, split field video, and service unit	R–2589	Call

## ETS Products Catalog (as of January 07, 2011)

AST Products	VCA Optima XE – PC with surface analysis XE software package, static or dynamic image capture	R-4033	\$9,750.00
AST Products	VCA-3000XE – Automatic contact angle instrument, 100mm-200mm wafers, surface mapping, programmable test patterns	R-3201	\$11,500.00
Astech	ATL-100RA – Impedance Auto matching network, MN 3150086-00301SE, 500w @ 300Khz, 50 ohm resistance, air cooled	R-4114	\$2,150.00
ASTEX	AX8300QTI – (2)AX8300 ozone generators, H-1 ozone analyzer, breaker and fault panels	R-3803	\$16,500.00
Asymtek	101G – XY dispenser with gantry configuration and Z head	R-2059	\$6,500.00
Asymtek	101G – automated xy fluid dispenser	R-1625	\$5,500.00
Asymtek	402 – Benchtop dispenser, Fluidmove software, 12x12 area	R-1832	\$7,500.00
Asymtek	402G – 12x12 automated dispenser with vision system and 3 valve manifold	R-3109	\$12,900.00
Asymtek	403G – 18"x18" dispense area, EFOS 100s UV cure, syringe dispense, video, Z height needle sensor	R-4004	\$25,000.00
Asymtek	512 – automated xy fluid dispenser	R-775	\$9,500.00
Asymtek	A-402B – Benchtop gantry configuration, 12x12 dispense area	R-1929	\$9,500.00
Asymtek	A-402G – 12x12 dispense area	R-1943	\$11,500.00
Asymtek	A618C	R-4030	\$16,500.00
Asymtek	C-708 – 18" x 18" dispense area, Z height needle sensor, Windows NT/ Fluidmove 4.3,	R-3758	\$17,500.00
Asymtek	Century C-720 – Dispensing area 17"x14", placement accuracy	R-4171	\$16,500.00
Asymtek	Century C-720, DV-8000 – Dual action dispensing head, DV-8000 Heli-Flow auger pump, AV-700 vision system, height sensor	R-4140	\$28,000.00
Asyst Technologies	300FL, S2.1 HAMA/E-84 – SMIF pn 9700-6149-01 Rev.A	R-3284	Call
Atago	Abbe NAR-3T – Abbe refractometer, RI 1.30000 to 1.71000, Brix 0.00- 95.00%	R-4149	\$4,200.00
Atlas Material Testing Technology LLC	UV2000 – Fluorescent UV/Condensation weathering device,	R-4166	\$7,500.00
ATMI/Ecosys	Vectra Ultra 3000 – Scrubber configured with 3 process flows	R-2950	\$32,500.00
ATS Eco-Snow Systems	SCS1500 – CO2 cleaning system with automated wafer transport	R-2915	Call
ATV Technology	TR-120D – Work stage with digital temperature controller	R-3246	\$1,650.00
Audion Elektro	VM 151H – Vacuum sealer, Chamber 42x42x11cm, 21m3/hr Busch pump, digital control panel, 110v	R-3843	\$2,450.00
Austin Scientific	310-9409 – LCD temperature cryopump monitor with 10-320 Kelvin range	R-3040	\$500.00

## ETS Products Catalog (as of January 07, 2011)

Autronic–Melchers GmbH	TBA–101 – Measures tilt bias angle and cell gap of LCD's	R–2042	\$21,500.00
Axsys Technologies	LTAF–8000 – real time autofocus module with fine focus servo drive and PC controller	R–2026	\$4,900.00
B&G	250C – Decapsulator uses sulfuric or fuming nitric acid for etching most encapsulating compounds	R–3733	\$11,500.00
Balzars	DUO–016B/TPU17– – Pumping system with 19.7cfm Fomblin backing pump and 170lpm turbo pump	R–1978	\$2,900.00
Balzars	DUO–1.5A – Rotary 2 stage 1.5 cfm vacuum pump	R–385	\$875.00
Balzars	DUO–12A – 2 stage rotary vane pump	R–386	\$1,200.00
Balzars	IMG300 – OEM modular controller for hot cathode gauges	R–2079	\$1,250.00
Balzars	QMA400 Faraday Cup – Brand new mass analyzer with ion source, filter, ion detector, and flange with all feedthroughs	R–4092	\$15,000.00
Barnant Company	Trisense 637–0090 – Temperature, humidity, and air velocity kit	R–2944	\$875.00
BAS	100B – Electrochemical workstation capable of 38 electroanalytical techniques	R–2458	\$4,500.00
Bausch & Lomb	Bausch & Lomb – Stereozoom 4 microscope with 10x eyepieces and boom stand	R–2474	\$1,250.00
Bausch & Lomb	Microzoom 2 – 6x6 xy stage, stand with reflected and transmitted light, brightfield, darkfield	R–3926	Call
Bausch & Lomb	SMZ–U – reflected light, 10:1 zoom, 6x6 xy stage, Plan 1x objective, 10x eyepieces	R–3925	Call
Bay Voltex	Tempryte PT FT–0150–AC – recirculating water chiller	R–208	\$1,050.00
Beckman	Allegra X22 – 0–14 500rpm, digital timer, 10 acceleration/deacceleration profiles, swing bucket rotor	R–3699	\$4,550.00
Beckman	GS15R – Cat no.360902, refrigerated, 0–14,000RPM, digital display, Temp –20C to 40C, includes 2 rotors	R–3543	\$3,500.00
Beckman	JA–20 – 20,000 rpm ultraspeed rotor	R–1423	\$3,900.00
Beckman	SW50.1 – ultraspeed rotor	R–1637	\$4,900.00
Beckman	Type 50.3 Ti – ultraspeed rotor	R–1421	\$3,900.00
Beckman	Type SW 60 – ultraspeed rotor	R–1418	\$4,900.00
Bell	9903 – Includes probe STF–99–0402 (damaged)	R–3813	\$2,500.00
Bemco	A18S – Interior 18 cu ft, altitude site elevation to 200,000 ft, mechanical refrigeration, Leybold pump	R–3767	\$25,900.00
Benchmark	Gen 2 – Parallel seam sealer in atmospheric enclosure with rear antechamber and 2 ovens	R–2522	\$59,000.00
Bird Electronics	8931–115 – Thermaline resistor, 10,000watt oil dielectric, 50 ohm	R–3690	\$2,750.00
Blue M	DC–146–BST350 – 14x14x14, 350C(662F)	R–3891	\$2,950.00
Blue M	DCA–146B – Inert gas forced air oven to 316C	R–2148	\$3,250.00
Blue M	DCC–256B–M – HEPA filtered class 100 4.9 cu ft oven with digital temp display	R–4081	\$3,900.00

## ETS Products Catalog (as of January 07, 2011)

Blue M	FRC-27F – –40 to 93C humidity chamber with 27cu ft capacity	R-2220	\$7,500.00
Blue M	FRC-27F – –40 to 93C humidity chamber with 27cu ft capacity	R-2219	\$7,500.00
Blue M	POM-206B-1PHX – forced air oven, to 343C	R-1709	\$975.00
Blue M	POM-5580E-5 – high temp forced air oven to 704C	R-674	\$3,500.00
Blue M	POM7-206C-3 – Forced convection oven to 343C(650F)	R-2099	\$2,350.00
BOC Edwards/ Seiko Seiki	STP-301 – ISO 100 inlet flange, NW25 outlet flange, 450lps N2, 10-10 mbar ultimate pressure,	R-4101	\$8,900.00
Boekel	1340 – 12x12x12 polished stainless dessicator with airtight door	R-3531	\$450.00
Boekeler	VIA-170K, Y/C – Video image marker/ measurement system with keyboard, KS-30 knob controller, and VIA Y/C interface	R-3425	\$2,650.00
Branson	2000C – Controller for Branson barrel asher	R-4135	\$1,850.00
Branson	450 – Sonifier, Ultrasonic cell disruptor/ Homogenizer. 400 Watts, Auto Tuning.	R-3616	\$2,500.00
Branson	871/187P – ultrasonic welder	R-807	\$3,500.00
Brookfield	BD112 – Chart recorder accessory for viscometer	R-3398	\$550.00
Brookfield	FTC-350A – flow through chiller	R-1513	\$500.00
Brookfield	HBDT-CP – Cone plate viscometer with stand, digital display, and CP-51 cone plate	R-3377	\$1,750.00
Brookfield	LVDV-II+CP – Programmable viscometer, PC interface, .01-200rpm, 15cP to 6MM cP	R-3661	\$2,800.00
Brookfield	LVDV-III CP – Cone plate viscometer with microprocessor control and Rheocalc software	R-2483	\$3,750.00
Brookfield	LVTE – dial type viscometer with 15cp to 2mm cp range	R-4179	\$1,050.00
Brookfield	R/S CPS – Controlled stress rheometer, 1-6000 sec-1, uses coaxial cylinder, cone/plate, vane spindle, or plate	R-3544	\$7,500.00
Brookfield	RVDV-II+CP – Cone plate viscometer	R-2512	\$2,800.00
Brookfield	RVDV-II+CP – Cone plate viscometer	R-2484	\$2,800.00
Brookfield	TC-500 – Temperature controlled bath for viscometer	R-2513	\$1,600.00
Brooks Instrument	5850E – 200 SCCM/10%PH3, 90%O3	R-3569	\$375.00
Brown & Sharpe	1025 – roughness gage, dual gage input, digital/analog display, 8 measuring ranges	R-1558	\$1,475.00
Bruker	– temperature controller, 2 available	R-3951	\$500.00
Bruker Optics	Matrix-F – FT-NIR designed for process applications, 6 channels, 1.5m fiber optic probe with holder	R-3541	\$45,000.00
Brumley South/MEMC	BSI-42P013H – 2.013um polystyrene latex sphere standard for calibration of KLA Surfscan type instruments	R-3428	\$900.00
Brumley South/MEMC	BSI-4P220H – 0.220um polystyrene latex sphere standards for calibration of KLA Surfscan type instruments	R-3427	\$900.00

## ETS Products Catalog (as of January 07, 2011)

Brumley South/MEMC	BSI-4P300H – 0.300um polystyrene latex sphere standard for calibration of KLA Surfscan type instruments	R-3431	\$900.00
Brumley South/MEMC	BSI-4P503H – 0.503um polystyrene latex sphere standard for calibration of KLA Surfscan type instruments	R-3430	\$900.00
Brumley South/MEMC	BSI-4P993H – 0.993um polystyrene latex sphere standard for calibration of KLA Surfscan type instruments	R-3429	\$900.00
Buehler	Fibrmct – Fiber optic polisher Cat no.69-3000-160	R-2671	\$2,300.00
Buehler	Fibrpol – Optical fiber polisher with variable speed and pressure	R-2598	\$7,500.00
Buehler	Isomet – Diamond blade cut off saw with 200-500 RPM	R-2502	\$2,350.00
Buehler	Metlap	R-3860	\$850.00
Buehler	Minimet – Minimet 69-1000-160 Polisher with variable speed and load control	R-3918	\$925.00
Buehler	Phoenix 4000 – Variable speed grinder/polisher, 12" aluminum platten, pneumatic/electrically driven head	R-3880	\$8,500.00
Buehler	Techmet – triple unit polishing table, Polimet I 8" variable speed polishers	R-1474	\$8,500.00
Buehler	Techmet/ Ecomet 3 – Techmet table with 3 flush mount 8" polishers and plattens	R-3392	\$10,500.00
Burleigh	6000ULN, 6003 – Axis 1: YAW (motor/encoder), Axis 2: Pitch (motor/encoder), 6003 joystick	R-3909	\$1,450.00
Burleigh	RS-800 – Rotary stage with 0.5um resolution and "inchworm" piezoelectric drive motor	R-2775	\$3,500.00
Burleigh	TS-100/RS-800 – Multi-axis translation stage with "inchworm" piezoelectric motors	R-2776	\$9,500.00
Burleigh	WA-7100 – Multi-line wavemeter with range 1270 to 1680nm, display resolution 0.001nm	R-2768	\$12,500.00
Busch Vacuum	Cobra DS-80 – 47cfm single stage dry screw design with 7.5 mtorr base pressure	R-3041	\$14,900.00
C.E. Johansson	8525-60 – roundness tester	R-1557	\$3,900.00
Camco Furnaces	B-1600 – Reducing/inert gas, max 1600C, vertical coldwall type, 12"diameter x 18"work area	R-4142	\$49,000.00
Canon	Gap Check Tool – Gap check tool for 4"-6" wafers	R-2236	\$1,950.00
Cascade Microtech	11101 – 11000 series Rf/microwave prober with 200mm wafer stage, Mitutoyo microscope,	R-3629	\$32,900.00
Cascade Microtech	114-338 – New never installed probe card holder for Summit 11000/12000 stations	R-3845	\$4,500.00
Cascade Microtech	MH2-B – Submicron micropositioner with <1um resolution, vacuum base,	R-3632	\$1,100.00
Cascade Microtech	MS1-44/L – Programmable high resolution micropositioner with 1" xyz travel and magnetic base	R-2802	\$3,200.00
Cascade Microtech	RF1 – Rf microwave prober, Olympus SZ-60, camera port, (2) MH5 positioners, 150mm square chuck	R-3879	\$15,900.00
Cascade Microtech	WPH-001-200 – Planarizing probe tip	R-2439	\$200.00
CEE	1100Custom – Programmable hot plate for up to 500mm x 500mm substrates	R-2668	\$12,000.00

## ETS Products Catalog (as of January 07, 2011)

CEE	200X – PC controlled 200mm resist coater, color touchscreen, Teflon bowl, 4" chuck for 5",6", and 8" wafers	R-4154	\$11,500.00
Chapman	MP 2000 plus – non-contact surface profiling system	R-499	\$15,000.00
Chatillon	DFGS2 – Digital tension and compression gauge	R-1885	\$550.00
Chatillon	DFI2 – Digital tension and compression gauge	R-1886	\$450.00
Chatillon	DPP-XXX – Analog push/pull gauges of various ranges	R-1582	\$275.00
Chatillon	HTC – 250lb capacity manual test stand with DPPH-100 0-100lb analog gauge	R-2912	\$1,650.00
Chatillon	LTC – 100 lb capacity test stand	R-1583	\$850.00
Chatillon	TCD 500-SS/ DFIS-500 – 500lbf (2500N) test stand with full digital control, slow speed option, DFIS 500lbf digital gage	R-3744	\$5,900.00
Chatillon	TCD-200, DFIS100 – Motorized stand with 200lb digital gauge	R-3864	\$3,900.00
Chatillon	TCD-200, DFIS-10 – 200lb range motorized test stand with 10lb digital force gauge and grips	R-3988	\$3,950.00
Chatillon	TCM-201 – 225lb capacity (1000N), 0.5- 12.5 in/min, 18" travel, includes 50lb x .05lb force gauge	R-4138	\$2,650.00
Cheltenham	TR1, WR1 – High frequency solid state Induction heater with power supply, water recirculator	R-3278	\$3,500.00
Chemglass	Manometer – Mercury manometer	R-3732	\$250.00
Climet Instruments	CI-400-0-2-1 – portable 0.1cfm laser diode particle counter with 0.5 micron sensitivity	R-2456	\$3,900.00
Climet Instruments	CI-6300 – particle counter, 0.1cfm, 0.19u	R-223	\$2,750.00
Climet Instruments	CI-6400 – particle counter, 0.1cfm, 0.12u	R-224	\$2,950.00
Cole Parmer	EW-05053-10 – 0.7 cu ft vacuum oven to 220C	R-1797	\$1,295.00
Colorado Video	610E – Video pointer with 2 positionable pattern generators	R-3206	\$1,250.00
Colorado Video	620 – XY crosshair generator	R-2490	\$350.00
Comdel	CX-1250S – 13.56MHz, 1250watts	R-3808	\$6,500.00
Compumetrics	AMS200A – Non contact line width measurement tool	R-437	\$9,500.00
Cookson Automation/ Speedline Tech	2800 – Liquid dispense tool for surface mount, solder paste, solder mask, or adhesives, 18"x18" area	R-3597	\$39,500.00
Cookson Automation/ Speedline Tech	3800 – XY automated Epoxy dispenser with automatic feed and vision system	R-3295	\$48,000.00
Cookson Automation/ Speedline Tech	3800 – Computer controlled liquid dispensing tool with magazine loader, positive displacement pump, laser	R-3518	\$49,000.00
Cookson Automation/ Speedline Tech	455-7A – Toggle head for Camalot 3700/3800	R-3187	\$7,900.00
Crest	xxx – ultrasonic vapor degreaser with heated tank and basket	R-4071	\$2,900.00
CS Clean Systems GmbH	CS125DC – Dual column point-of-exhaust gas purifier with end point detector and 195 liter volume columns	R-3412	\$12,000.00

ETS Products Catalog (as of January 07, 2011)

CS Clean Systems GmbH	CS195DC – Dual column point-of-exhaust gas purifier with end point detector and 195 liter volume columns	R-3411	\$12,500.00
CTI	8200 – pn 8032550G001, water cooled compressor, 220v,1	R-1712	\$4,200.00
CTI	8510 – Compressor for On-Board cryopumps	R-1925	\$5,900.00
CTI	8510 – Compressor for On-Board cryopumps	R-1926	\$5,000.00
CTI	8F OnBoard – Flat configuration cryopump with ISO flange and network module	R-3096	\$7,500.00
CTI	Cryotorr 8 – cryopump, 8", ANSI flange	R-375	\$3,500.00
CTI	Cryotorr 8 OnBoard – pn8112854 OnBoard 8 cryopump with Network module and 6" ANSI flange	R-3154	\$8,500.00
CTI	Cryotorr 8 OnBoard – cryopump pn 8112855, NW200 ISO flange, roughing valve, purge valve, TC, heater	R-3091	\$7,900.00
CTI	Cryotorr 8 On-board – cryopump, 8200 compressor	R-376	\$7,500.00
CTI	Cryotorr 8F OnBoard – On Board configuration for AMAT Endura HP PVD system	R-3390	\$8,900.00
CTI	Cryotorr-10 – ANSI flange, 9000 l/s water vapor	R-377	\$5,900.00
CTI	CTI-10, 9600 – cat no.8018275, conflat ultra high vacuum flange with copper seal and 9600 compressor	R-3094	\$12,500.00
CTI	On Board 10 – On Board 10" cryopump with ANSI flange	R-1937	\$9,200.00
CTI	On Board 10 – On Board 10" cryopump with conflat flange	R-2109	\$9,200.00
CVC Products	AST-601 – Batch type sputter tool, (4) 200mm targets, diffusion pumped, 1KW Rf generator, Leybold roughing pum	R-3783	\$34,500.00
CVI Laser	1100-05 – Rotary optics mount with 0.40" clear aperture	R-2936	\$60.00
Cybeq	Per4Mer 8000, 6100, 2831 – Per4Mer 8000 transfer robot with laser cross slot detector, 6100 controller, 2831 prealigner	R-3844	\$19,500.00
CyberOptics Corp	Cyberscan Cobra – Non contact laser profiler wit 0.125um resolution & SCAN software with 16 2D profile measurements	R-2285	\$9,500.00
Cyberscan	Vantage – motorized xy stage with 0.1um resolution, Keyence LT9010M 670nm laser sensor, AScan Ver.3.1 software	R-4088	\$39,500.00
Cybor	05026-00CL-B, 512-05, 505-05 – Pump programmable metering pump w/ options: 05026-01,-OK,-OP,-51,-T6.	R-4151	\$4,500.00
Daedal	315102S-20E – xy open frame motorized 10x10 stage	R-551	\$1,800.00
Dage	BT14 – Bond pull tester for destructive or nondestructive testing	R-2127	\$5,900.00
Dage	BT-23 – Semiautomatic ball shear tester with 200g and 2kg load cartridges	R-2850	\$4,500.00
Dage-MTI	DC-330 – Digital subminiature color 3 CCD, ultra high resolution with 750 horizontal lines	R-3674	\$3,500.00
Danielson	Tribodyn series 100 – molecular drag pump, 18cfm	R-424	\$4,500.00

## ETS Products Catalog (as of January 07, 2011)

DataPhysics	ACA 50 – Fully automatic video based measurement of static and dynamic contact angle	R-3273	\$39,500.00
DataPhysics	OCA-15 plus – Video based optical contact angle measurement instrument	R-3483	\$15,900.00
Davidson Optronics	D 266 – Angle checker accessory for D 657 autocollimator	R-3167	\$3,500.00
Davidson Optronics	D 638 – 2 axis coordinate autocollimator with 20" focal length	R-538	\$5,500.00
Davidson Optronics	D 656 – 2 axis autocollimator, dark field reticle and external display	R-3788	\$3,900.00
Davidson Optronics	D 657-109 – Tooling autocollimator measures angular deviation of 1 degree	R-3165	\$2,850.00
Davidson Optronics	D 657-109 – Tooling autocollimator measures angular deviation of 1 degree	R-3166	\$2,750.00
DCI	HM24X24 – Open frame xy stage with 24"x24" travel and stepper motor drivers	R-3280	\$6,500.00
Delatech	SD500-3 – Wet scrubber using counter current, packed bed process for exhaust gas treatment	R-2259	\$25,000.00
Delta F	FA30111 – trace oxygen, 0-1/0-10/0-100ppm	R-1332	\$3,200.00
Delta F	Series 100 – trace oxygen, 0-0.5/0-5.0/0-50ppm	R-1333	\$3,200.00
Deltasonics	DT-3HD – ultrasonic cleaner	R-773	\$1,400.00
Denton	Bench Top Turbo IV – Filament evaporator, Pfeiffer turbon pump, Inficon XTM/2 deposition monitor	R-3685	\$35,000.00
Despatch	Ecosphere EC-335 – Test chamber with zero ozone depleting refrigerant	R-2034	\$12,500.00
Despatch	LCC1-16-3 – Stackable clean process ovens, HEPA, 1.6cu ft, max 260C	R-4139	\$6,250.00
Despatch	LCCI-87-2 – 260C/500F, HEPA, 22.5"w x 24"h x 22.75d, Watlow digital, 240v/1/60hz, 42A, 4 shelves, overtemp	R-4177	\$4,200.00
Despatch	LXD1-42-2 – Chamber 20x18x20, max temp 316C/500F, digital temp display, 208v/1	R-3479	\$1,850.00
Diamond Wire Technology	Millenium 205540 – Dicing saw with 4"x4" worktable, horizontal cutting wire, programmable	R-4037	\$11,000.00
Digital Instruments	LS-SPM – large scanning sample stage	R-1560	\$18,000.00
Direct Optical Research	ZX-1 mini – Zoom interferometer	R-2715	\$2,500.00
Disco	DFD-2D8 – dual spindle auto dicing saw	R-184	\$25,000.00
Disco	DZA F0009 – spec 1070, (52x.07x40)	R-1596	\$40.00
Disco	DZA F0012 – spec 1070, (52x.09x40)	R-1597	\$45.00
Disco	DZA F0039 – spec 1070, (52x.03x40)	R-187	\$25.00
Disco	DZA F0082 – spec 1070, (52x.05x40)	R-1595	\$34.00
Dover Instruments	DMM-1000 – Controller for air bearing motor	R-2206	\$3,500.00
Dryden Engineering	QIII – Surface particle detector with probe and ULPA filter	R-2964	\$14,500.00

## ETS Products Catalog (as of January 07, 2011)

Drytek	Megastrip 6-PP – Parallel plate asher with endpoint detection	R-1765	\$15,900.00
Dukane	2170, DPC-III – 2170 (Model 220) 20KHz, 1700W, welder, Millenium DPC-III controller, sound enclosure	R-4178	\$18,500.00
Dupont	303 – trace moisture monitor	R-1334	\$2,500.00
Dupont	983 – dynamic mechanical analyzer (DMA)	R-1371	\$14,900.00
Dymatix	860 – Manual 8" wafer prober with Leica stereozoom	R-2563	\$13,500.00
Dymatix	880 – 200mm semiautomatic prober with Olympus stereozoom, probe card holder, and Temptronics heated chuck	R-3532	\$21,900.00
Dymax	PC-3 UV – epoxy curing system with timer and light guide	R-779	\$1,650.00
Dynapert	MT-10 – bond wire tester, 0-200g tensile, digital, printer	R-734	\$3,200.00
Dynatex	DX III-L – Wafer scribe configured for manufacturing of laser diodes with Cognex pattern recognition	R-3326	\$22,900.00
Dynatex	DXB – Bonds die to WaferGrip film, 15-45s cycle, maximum wafer size 10", temp range 60-80F(15-27C)	R-4085	\$2,500.00
Dynatex	GST-150 – 150 mm Scriber Breaker for silicon and GaAs	R-3501	Call
Dynatronix	PDPR20-30-100 – Programmable pulse periodic reverse power supply	R-1959	\$5,900.00
E.A. Fischione Instruments	3000 – Tabletop precision Ion milling/ polishing system for TEM samples	R-4110	\$17,500.00
Ebara	A07V – 30 cfm, ultimate pressure 7x10 <sup>-3</sup> torr	R-2267	\$4,950.00
Ebara	A10S – 42.2cfm N <sub>2</sub> , ultimate pressure 3.00-2torr, 200-240v/3	R-4086	\$7,500.00
Ebara	A30W – 125cfm, NW50 inlet, NW40 exhaust, 200-220v	R-4032	\$8,500.00
Ebara	A70W – 300cfm, 0.001 torr ultimate pressure, 6 stages, water cooled	R-4031	\$11,000.00
Ebara	AA10N – 1200l/m N <sub>2</sub> , DN40KF inlet, outlet, water cooled, 200v	R-3852	\$9,500.00
Edwards	100/300P – Standard Diffstak with pneumatically actuated high vacuum valve and 280l/s N <sub>2</sub> pumping speed	R-2884	\$3,200.00
Edwards	1105 – vacuum gage for Pirani and Penning cold cathode	R-282	\$1,150.00
Edwards	1800 – Pressure controller with display and input for capacitance manometer	R-3671	\$1,450.00
Edwards	63/150P – Standard Diffstack with pneumatically actuated high vacuum valve and 135l/s N <sub>2</sub> pumping speed	R-2883	\$2,500.00
Edwards	CP-25K – Edwards Vacuum Gauge Head Penning CP25K D145-37-000	R-3142	\$325.00
Edwards	D150S – dual Gas Reactor Column automatic changeover	R-204	\$19,750.00
Edwards	DP-80 – rebuilt with warranty	R-1711	\$7,500.00

## ETS Products Catalog (as of January 07, 2011)

Edwards	E2M18 – 14.7cfm, 2 stage rotary pump, 3/4hp	R-3266	\$1,600.00
Edwards	E2M2 – Brand new 2 cfm, 2 stage roughing pump	R-2045	\$1,000.00
Edwards	E2M28 – 20cfm, 2 stage, rotary pump	R-3267	\$1,800.00
Edwards	E2M80 – 2 stage 57cfm, rebuilt	R-1710	\$2,800.00
Edwards	ETM80S/EH500 – 80-cfm, 2 stage roughing pump with 300cfm blower,	R-390	\$9,500.00
Edwards	EXT 6/200 EXC – hybrid bearing, 6" conflat, 200lps	R-425	\$4,200.00
Edwards	GVI 050M – 2" Manual gate valve, stainless steel, NW50 flange,	R-3086	\$700.00
Edwards	GVI100P – Pneumatic bellows sealed ISO100 stainless steel gate valve	R-2411	\$1,400.00
Edwards	IL70 – Dry pump rated at 49 cu ft/min at 60hz	R-2346	\$12,500.00
Edwards	IQDP40 – 32.0 cfm dry pump with I designation for external control	R-2627	\$12,500.00
Edwards	P150S – P150S GRC preheat station with control unit	R-205	\$3,500.00
Edwards	QDP-40 – 32.0 cfm, ISO 40 inlet, enclosure, diagnostics	R-1648	\$9,500.00
Edwards	RV12 – 8.4cfm rotary vane pump	R-2885	\$1,500.00
Edwards	RV3 – 2.6cfm rotary vane pump	R-2886	\$1,100.00
Edwards	Spectron 5000 – L18310010, 240v, 50hz, CE marked for European operation, LN2 trap, Cup for component testing	R-3057	\$17,500.00
Edwards	Superpump E2M40S – 30cfm, corrosive application, fomblin,	R-389	\$5,900.00
Edwards	W-75 – Wet scrubber for exhaust streams with water soluble and water reactive gases	R-3397	\$19,500.00
EFD	1500DV – epoxy dispenser with pick and place tool and digital timer	R-2180	\$975.00
EFD	Valvemate 7000 – Dispense valve controller, digital display of time and pressure, 120/220v	R-3757	\$775.00
EFOS	Novacure – Epoxy cure unit with onboard radiometer, LCD display, and light guide	R-2199	\$2,650.00
EFOS	Ultracure 100ss – spot UV curing system, 100w Hg short arc lamp	R-782	\$1,625.00
EG&G	1421 – gated diode array detector, blue enhanced, 1024 element	R-573	\$9,500.00
EG&G	5207 – lock in amplifier single phase	R-1443	\$1,900.00
EG&G	5210 – Lock in amplifier	R-4096	\$2,995.00
EIT Instrumentation	Uvicure – UV bandwidth 320-390nm (UV-A), 5mW/cm2 to 5W/cm2	R-3025	\$850.00
Electroglass	2001X – semiautomatic prober with table, Olympus SZ30, 150mm chuck	R-1756	\$15,000.00
Electron Vision/ AMAT	Electron Cure 3C-PM – 300mm electron beam cure tool with Asyst SMIF loaders	R-3385	Call
ELGA	UHQ-II-MK3 – Produces 18.2MegOhm water,	R-3968	\$2,400.00

## ETS Products Catalog (as of January 07, 2011)

	TOC<20ppb, 0.05u filtration, dispense rate of 0.75l/min		
Elliot Scientific	DALi 2100 – 3 axis piezo autoalign controller for alignment of single mode fibers and photonic devices	R-3151	\$4,500.00
Elliot Scientific	MDE 881Gold Series – Alignment station with 6-axis manipulation	R-2500	\$9,500.00
Engineering Laboratory Design	403 – Eiffel type 12" low speed open circuit wind tunnel for characterizing semiconductor devices and pack	R-2569	\$12,500.00
ENI	ACG-10T – 1000w, 13.56mhz, air cooled Rf power supply	R-3123	\$3,900.00
ENI	ACG-4 – 13.56mhz @50 ohms, 400 watts, air cooled, 110v	R-340	\$2,500.00
ENI	DCG-100 – 10kw DC plasma generator with full front panel control	R-2694	\$8,900.00
ENI	Genesis GHW 85A – 13.56mhz, 8500 watts, water cooled	R-1779	\$29,500.00
ENI	LPG-6AM8, LPT-6T – 90-460Khz, 600watts Rf @ 60 ohms	R-3263	\$4,200.00
ENI	NOVA-25A-01 – 2500w, 2.0MHz, water cooling, software ver.3.7	R-3854	\$7,500.00
ENI	OEM-10B-7 – Rf power supply, 1000w, 13.56mhz, water cooled	R-2015	\$7,900.00
ENI	OEM-12B – 13.56mhz Rf, 1250w, water cooled	R-339	\$4,200.00
ENI	OEM6XL – 0-750w, 13.56mhz, water cooling, type N Rf output, 0-10vdc ext control	R-3865	\$1,800.00
Eppendorf	5415C – micro-centrifuge, 18 x 1.5ml 45 degreerotor, 14000 rpm	R-1424	\$1,150.00
Eppendorf	5417C – 16,400rpm, digital time and rpm display, 45-30-11 fixed angle 30 place (2ml) rotor	R-3662	\$2,150.00
Equilaser	EDWS-15 – Laser workstation for spot or seam welding of metal parts with 15w nd:YAG laser and GUI interface	R-3261	\$29,500.00
Equipe Technologies	ATM-104-I, ESC-212B-SMIF, PRE-1679 – single arm wafer handling robot with ESC-212B controller, PRE prealigner and interconnect cables	R-3351	\$14,900.00
Equipe Technologies	ATM205-1-S,ESC-200 – Atmospheric single arm wafer handling robot with ESC-200 controller	R-3232	\$12,900.00
Equipe Technologies	ATM205-1-S,ESC-200 – Atmospheric single arm wafer handling robot with ESC-200 controller	R-3233	\$12,900.00
Equipe Technologies	ATM-4545, ESC-212, PRE-1679 – Single arm wafer handling robot with ESC-212B controller, PRE prealigner and interconnect cables	R-3350	\$14,900.00
ESEC	CT-2000 – Die attach tool with placement accuracy of 2mil.	R-2169	\$42,500.00
ESI	9100 – IR laser assembly from ESI 9100, 500mW, 200uJ/3.0ns, 1.0um wavelength	R-4100	Call
Espec	PCR-3SP – Temperature and humidity chamber with range of -20C to 100C, 30-98%Rh	R-3642	\$8,500.00
Espec	PH201M – 7.6 cuft oven with 200C max temp and E-bus	R-2747	\$3,600.00
Espec	PVC-330 – ambient +60C to 200C, 31.5"w x 26.8dx	R-682	\$4,900.00

ETS Products Catalog (as of January 07, 2011)

	42,5"h,		
Estek	WIS 8000D – Detects particles, scratches, and haze on 100–200mm bare silicon wafers	R–3229	\$16,500.00
ETS Lindgren Acoustic Systems	SD2 – small device test enclosure,	R–4141	\$8,900.00
Eurotherm	1 zone – single zone temperature controller, 240v, 70a	R–3949	\$750.00
Eurotherm	3 zone – 3 zone temperature controller, 240v/25a per zone	R–3950	\$1,500.00
EV Group	501 – 100mm wafer fixturing, aligns and bonds double/triple stack wafers up to 150mm.	R–3523	\$149,000.00
EV Group	620 – Bond aligner with 1um accuracy and high resolution bottom side splitfield microscope	R–3530	\$85,000.00
EV Group	EV620 – Topside mask aligner with autoloader for 4–6" wafers and 0.5micron accuracy	R–2146	\$95,000.00
EXFO	Acticure 4000 – Epoxy UV cure system, 100w Mercury lamp provides >20Kmw/cm2	R–3024	\$2,950.00
EXFO	Omniculture 2000 – lamp 012–6400, filter option 320–500nm(019–01049), 1m liquid light guide, 200w Hg lamp, 100–240v	R–4160	\$3,400.00
EXFO	OWA–9500 – Refractive index profiler for integrated optics devices with waveguide scan	R–3283	\$29,500.00
EXFO	X–Cite 120 – Metal halide fluorescence illuminator with 3m liquid filled light guide	R–3646	\$2,950.00
Express Test	HAST.LAB Series III – chamber 11.8"dia x24"depth, temp range 105–179C, pressure 56psig, humidity 50–100%Rh, 208–240v/1	R–4038	\$12,500.00
Exttech Instruments	407738 – 25db–135db range, up to 99 readings in memory, max/min, fast/slow response, LCD display, AC/DC	R–4148	\$200.00
F&K Delvotek	5430 – manual/semiauto wedge bonder for Au or Al wires 18–75um	R–2707	\$23,900.00
F&K Delvotek	5432 – Deep access manual and semiautomatic ultrasonic bonder for wire and ribbon	R–3031	\$29,000.00
FAS Technologies	W2501VS01/ W2501CC01 – Stainless Thermoelectric cooling vessel for resists with digital controller	R–3816	\$4,950.00
Fein focus	FSX 100.23 – realtime x–ray microscope for non destructive failure analysis,	R–1548	\$42,500.00
Fisher	282A – 1.5 cuft vacuum oven with temp to 280C(536F)	R–2672	\$2,850.00
Fisher	Lab–Jack 14–673–53 – 12"x12" lab jack	R–3647	\$225.00
Fritsch Gmbh	Pulverisette 14 – Variable speed rotor mill for grinding soft to medium–hard materials, 6k–20k rpm, stainless rotor	R–3255	\$5,400.00
Frontier Semiconductor Measurements Inc.	128L C2C – 300mm tool for stress measurement and wafer bow with Asyst FOUP loaders.	R–3792	Call
Frontier Semiconductor Measurements Inc.	FSM 900TC–VAC–200mm – Film stress to 900C, configured for 200mm wafers, integrated RGA, vacuum to 1x10E–6	R–3780	\$95,000.00

## ETS Products Catalog (as of January 07, 2011)

Frontier Semiconductor Measurements Inc.	FSM128 – tool with auto cal, auto-intensity, motorized 200mm stage, 8s scan	R-3789	\$24,900.00
FTS Systems	FC-00016A – Immersion cooler with probe	R-1636	\$950.00
FTS Systems	FTS Systems RC50-CO210 – recirculating chiller, 6825 btu's@20c	R-209	\$2,500.00
FTS Systems	RC00433A – Recirculating chiller, temp range -15 to 35C, 4 liter reservoir,	R-2999	\$2,800.00
FTS Systems	Turbojet TJ80C-2 – Delivers 15cfm air, pneumatic arm, temp range -30C to 230C, 1 deg C accuracy, 208v	R-3853	\$9,500.00
Fuji	VG-400C-10W – New impulse sealer, 200v, 2.6kw, 50/60hz	R-3279	\$4,900.00
Fuji Electric Co. Ltd.	ZFM – Infrared type 0-500ppm CO2 analyzer with analog display	R-2896	\$1,200.00
Furukawa Electric Co.	S323 – Cleaves single fiber and up to 12 ribbon fibers	R-2377	\$1,250.00
Fusion	LC6E, I300MB, 300MT – LC6E Benchtop UV conveyor with 6" belt, I300B microwave UV irradiator assembly	R-3848	\$5,900.00
Gaertner	L115C – Mapping ellipsometer with 200mm motorized and PC controlstage	R-2246	\$21,900.00
Gaertner	L115S – Variable angle Stokes ellipsometer with Waferscan high speed mapping capability	R-2228	\$29,500.00
Gaertner	L115S-8 – 200mm mapping ellipsometer with Stokes detector	R-2137	\$26,000.00
Gaertner	L115S-8 – Variable angle Stokes ellipsometer with Waferscan high speed mapping capability, 200mm wafer stage	R-3638	\$26,000.00
Gaertner	L116S – Variable angle Stokes ellipsometer with single wavelength, 200mm wafer stage, and software	R-3285	\$23,900.00
Galileo	DSR003 – specular reflectance remote sensor 1meter path	R-1361	\$4,500.00
Gamma Scientific	191C – gonioreflectometer head	R-576	\$1,200.00
Gamma Scientific	DC-51C – photomultiplier detector	R-575	\$9,500.00
Gardner	Glossgard II/20 – Glossmeter, specular reflectance, 60 degree	R-1525	\$425.00
Gastech	1314 – trace oxygen monitor	R-1335	\$1,200.00
Gatan	601 – Tuned piezo cutting tool , dial indicator with 10um resolution	R-3692	\$5,500.00
Gatan	623 – Produces parallel sided disks of 50um thickness up to 9mm diameter	R-3693	\$825.00
Gatan	691 PIPS tm – Precision ion polishing system for TEM specimens,	R-3922	\$12,900.00
Genmark Automation	Gencobot 4 robot – 2 link arms, 24"maximum reach, 4 axis,	R-266	\$8,500.00
GGB Industries	Picoprobe 12C – high input impedance active probe	R-1776	\$725.00
GGB Industries	Power Supply – power supply for Picoprobes	R-1777	\$350.00
Glassman	LV300-3.5 – DC power supply, 0-300v, 0-3.5 amps	R-2077	\$1,500.00

ETS Products Catalog (as of January 07, 2011)

Glendale	W2204 – goggles, Argon OD15 @488nm	R-1461	\$75.00
GMD	Autostep 930-01 – HF detector 0-2ppm	R-1318	\$1,200.00
Gould	BR-60020/BR-60050-00 – XY plotter	R-1428	\$1,400.00
Grant	W14-ZD – heated water bath, 13"x12"x6",	R-1402	\$650.00
Granville Philips	303 – ion gage/TC	R-283	\$2,500.00
Granville Philips	340	R-3878	\$1,200.00
Granville Philips	340 – Controller with digital display including 2 ion gauges and 2 convecron tubes	R-2880	\$1,200.00
GSI Lumonics	LuxStar LX-50 – 50w Nd:YAG IR precision welding laser with multiple focus heads and external share boxes	R-3580	\$47,500.00
GSI Lumonics	Maintenance kit for Wafermark II – Maintenance tool kit for Wafermark II/III including Bird Wattmeter	R-2980	\$2,500.00
Haake	RV-20-M5 – Roto-viscometer, viscosity range 10-105 mPa-s	R-1516	\$4,500.00
Hanovia	C2523321 – UV conveyor with 25" wide belt and 3 power levels	R-2286	\$12,900.00
Harvard Apparatus	44 – syringe pump 0.5ul to 140ml	R-1493	\$1,200.00
Headway	LS510 MII SPL – Large substrate coater, 22"ID bowl, vacuum chuck, auto-dispense, 1hp servomotor	R-3448	\$12,900.00
Heidenhain	VRZ 720B – 2 axis XY digital display with multiple functions	R-2933	\$900.00
Heraeus	UT6200 – 300C forced air oven, 21.75w x 19.75d x 25.25h, 2 shelves, 230v	R-3915	\$2,750.00
Hermann Ultraschalltechnik	PS Dialog PSAC	R-1734	\$4,900.00
Herrmann Ultrasonics	HS Dialog – 2000w, 20khz ultrasonic welder, LCD operator interface,	R-3549	\$7,900.00
Hewlett Packard	1037A – refractive index detector	R-1344	\$1,200.00
Hewlett Packard	10770A – Angular reflector for HP laser interferometer	R-1640	\$2,800.00
Hewlett Packard	10777A – optical square and mount for HP laser interferometer	R-1564	\$1,800.00
Hewlett Packard	11570A – Agilent 11570A accessory kit allows measurements in a 50 ohm system	R-3943	\$650.00
Hewlett Packard	16047A	R-3620	\$350.00
Hewlett Packard	16048D	R-3923	Call
Hewlett Packard	4085M/4084B – 4085A switching matrix, 4084B switching matrixcontroller	R-477	\$19,500.00
Hewlett Packard	5517B/ 10780C – Laser interferometer head with 10780C receiver for positioning system	R-3416	\$2,500.00
Hewlett Packard	55283A – straightness measuring kit for HP laser interferometer	R-1566	\$3,900.00
Hewlett Packard	5890A Series II	R-4091	\$4,900.00
Hewlett Packard	6525A – high voltage power supply 4000kv, 0-50mA	R-1526	\$1,500.00

## ETS Products Catalog (as of January 07, 2011)

Hewlett Packard	7046A – XY recorder	R-3442	\$400.00
Hewlett Packard	MSD 1100 – single quadrupole with a mass range from 1–3000 Da. Electrospray ionization (ESI)	R-3542	\$24,900.00
Hiac Royco	8000A/ MC-02S/ AFCS – MicroCount 02S laser diode sensor range of 0.2–5.0 microns, 8 channel controller/display, auto samp/	R-3802	\$17,900.00
High Vacuum Systems Inc.	Custom – 10KVA power supply, 4 pocket E gun, diffusion pumped, Inficon XTC deposition monitor	R-3622	\$25,000.00
Highwave Optical Technologies	HWT-L-BS-B1-2-APC – Dual output L band source with erbium doped broadband laser	R-3122	\$5,500.00
Hirox Ltd.	KH-1000/MX-2005C/MX5030RZ II – 200x–4000x zoom lens with coaxial lighting mounted on stand	R-2709	\$12,500.00
Hitachi	KP-D50 – 1/2" color CCD camera, 430 lines, 2:1 interlace, 682h x 492v pixels, 12VDC power supply	R-2965	\$825.00
Hitachi	VR16L-K – 2 stage, 5.9cfm, 110v	R-2097	\$1,100.00
Horiba	u-Series G-350E – CO monitor for measurement of high purity semiconductor gases	R-1319	\$4,900.00
Horiba	u-Series G-350E – CO2 monitor for measurement of impurities in semiconductor high purity gases	R-1320	\$4,900.00
Houston Instruments	B-5000 – laboratory chart recorder	R-1430	Call
HPS div. MKS Instruments	315 – New Pirani digital micro controller with gauge tube and interface cable	R-3489	\$850.00
Hughes	ERS-32-55-TC	R-4009	Call
Hughes	ERS-32-75-TC	R-4007	Call
Hughes	HTT-1000A – Programmable solder reflow power supply	R-2067	\$3,200.00
Hughes	HTT-550 – solder reflow power supply	R-811	\$700.00
Hughes	HTT-650 – solder reflow power supply	R-812	\$1,250.00
Hughes	HTT--EL-1000/2 – Dual goalpost mounted resistance reflow soldering system	R-1845	\$9,500.00
Hughes	MCW-550, HTA-66, SZ4 – Constant voltage DC power supply, medium force parallel gap weld head, base plate, stereozoom 4	R-2094	\$5,900.00
Hughes	MLS-500-125H	R-4008	Call
Hughes	MLS-500-125H-TC	R-4005	Call
Hughes	MLS-900-F-125W-TC – 5 available	R-4006	Call
Hughes	VTA-66 – medium force parallel gap welding head	R-802	\$1,275.00
Hughes	VTA-70/HTT-650-CO6 – opposed electrode, 2-100lbs.pneumatic actuation	R-814	\$3,200.00
Hughes	VTA-96 – lite force microweld head	R-804	\$1,500.00
Hypervision	Chip UnZip – Backside Preparation System	R-3851	\$12,900.00
IEC	#958 – centrifuge rotor	R-1426	\$300.00
IEC	HT – 17,000RPM centrifuge	R-1425	\$2,800.00
IGC APD Cryogenics	Aqua Trap – provides assistance to turbopump for	R-1693	\$8,500.00

## ETS Products Catalog (as of January 07, 2011)

moisture removal from high vacuum systems

Illinois Instruments	3000 – ppm Oxygen analyzer with digital display	R-2480	\$975.00
Illinois Instruments	410 – Moisture/dew point hygrometer, temperature range of –110C to +20C	R-3686	\$3,650.00
Illinois Instruments	6000 – ppm oxygen analyzer with RS-232 and analog output	R-2481	\$1,750.00
Illinois Instruments	830/410 – 19" rack mount with 830 ppm Oxygen monitor and 410 moisture monitor	R-3669	\$6,650.00
ILX Lightwave	LPH-6708B – InGaAs power head with 100nW to 100mW wavelength range 800-1600nm	R-2614	\$650.00
ILX Lightwave	SPW, 110M-PS – Diode laser with power supply removed from ESI 9250	R-3417	\$3,950.00
Imada	I8 – Torque tester for power drivers and wrenches, includes 2 adaptors	R-3872	\$850.00
Indigo Systems	Phoenix NIR – NIR camera with spectral response of 0.9u-1.7u	R-2667	\$12,900.00
Inficon	019-101-G2 – electron multiplier/Faraday cup sensor	R-331	\$3,900.00
Inficon	CM-100 – 0-10 torr capacitance manometer	R-287	\$425.00
Inficon	Diavac K no.89599 – diaphragm gauge, analog, 0-760torr	R-289	\$750.00
Inficon	IPC-2 – pressure converter	R-329	\$1,200.00
Inficon	IPC50A Basic – sampling system, transport cart, 50lps NT50 turbo	R-330	\$4,900.00
Inficon	IQ-100 – quadrex 100 controller/display, faradaycup, 0-100amu	R-326	\$4,500.00
Inficon	IQ-200 – IMC-2 printer, (2)D8 RP, TMP-150 turbo	R-327	\$5,900.00
Inficon	PM410 – cold cathode ion gauge	R-290	\$450.00
Inficon	Quadrex 200/ IPC-50 – mobile mass spectrometer/ RGA	R-1731	\$8,500.00
Inficon	QX-2000	R-328	\$2,900.00
Inficon	TM220 – Pirani gage, 2 station	R-291	\$375.00
Inficon	Transpector CIS system – ppm analysis during sputtering, closed ion source	R-324	\$12,000.00
Inficon	Transpector XPR – in situ gas analyzer	R-325	\$7,500.00
Instec	HCC-204, STC 200 – 100mm x 100mm –40 to 200C temperature controlled vacuum stage with digital controller	R-3701	\$4,500.00
Instron	1122 – 1000 lb capacity tension/compression loadcell	R-1586	\$3,500.00
Instron	2511-102 – 2000g capacity tension load cell	R-3302	\$1,500.00
Instron	2511-103 – 50lb tension load cell	R-3508	\$1,500.00
Instron	2511-202 – 50lb compression load cell	R-3506	\$1,500.00
Instron	2511-325 – 5000lb reversible load cell for tension or compression	R-3301	\$2,500.00
Instron	2518-804 – static load cell, 10KN (5KG)	R-4106	Call

ETS Products Catalog (as of January 07, 2011)

Instron	2518-805 – static load cell, 5KN (5KG)	R-4105	Call
Instron	2518-807 – static load cell, 100N (2KG)	R-4107	Call
Instron	2518-808 – Static load cell, 10N (2KG)	R-4104	Call
Instron	2530-445 – 50KN load cell	R-4173	\$6,500.00
Instron	2716-020 – 50KN wedge action grips	R-4174	\$8,500.00
Instron	2820-023 – 90 degree constant angle peel test fixture	R-2007	\$1,600.00
Instron	3111 – temperature chamber heating, CO2 cooling	R-1590	\$8,500.00
Instron	3342 – 500N (50Kg/112.5lbs) load capacity, includes 2519-102 50N tension/compression transducer	R-3536	\$19,500.00
Instron	4201 – 500 kg capacity	R-1587	\$18,000.00
Instron	4502 – Electromechanical tester with 2200 lbs (1000kg) capacity	R-1801	\$21,500.00
Instron	5544 – 2KN testing machine with load cell	R-3197	\$14,900.00
Instron	AR7484-2 – 2.5N (2KG)	R-4108	Call
Integral Technologies	Flashpoint – Pentium PC with Integral Tech frame grabber card	R-2013	\$1,200.00
Integrated Dynamics Engineering GmbH	– Isolation enclosure for atomic force microscope	R-2226	\$14,900.00
Integrated Dynamics Engineering GmbH	Type TC – Active isolation system, 32"x32"	R-4003	Call
Intertest	1014 –CII – Gross/fine leak pressurization tool with 6" diameter chamber and 7cfm vacuum pump	R-3824	\$18,500.00
Ion Laser Technology	5400B-100-00C, 5450ASL-00C – 25mw argonion laser, air cooled, with power supply	R-3108	Call
Ion Systems	6430 – Benchtop anti-stat blower, 49cfm	R-2852	\$220.00
Ion Systems	6442 – adjustable 2 speed fan, auto clean system, DC ion emission	R-4034	\$250.00
Ion Systems	Z Stat 6412A – 44" Precision SC overhead ionizing blower for extremely static sensitive environments	R-3936	\$575.00
Ion Systems	Z-stat 6412 – 32" Precision SC overhead ionizing blower	R-1624	\$475.00
Ion Tech	MPS-3000, GFC-1000, 3-1500-100 – 3cm Ion beam source with power supply, gas controller, 2 MFC's	R-3834	\$14,000.00
IPG Photonics	PYL-1-1206-R – CW single mode fiber laser with random polarization output power of 1 watt @1206nm	R-3345	\$4,900.00
IPG Photonics	PYL-1-1209-R – CW single mode fiber laser with random polarization output power of 1 watt @1209nm	R-3346	\$4,900.00
Ircon	Maxline plus – MX-M602-0000-20-/000 IR temperature monitor	R-1501	Call
Ircon	Modline plus – IR temperature displays 80c-200c	R-1500	Call
Ircon	MX-M702 – IR thermometer with BCL-081C controller	R-1502	\$2,950.00
ISI	SR-50A – 0.5-30kv accelerating voltage SEM	R-642	Call
Iwashita	AD3000V – epoxy dispenser	R-784	\$850.00

## ETS Products Catalog (as of January 07, 2011)

J.A. Woollam Co.	EC-270 – Electronics control module for M-88 ellipsometer	R-4123	\$3,500.00
JDS UNiphase/Cyomics	2214-25 MLUP – Air cooled Argon ion laser, multiline output, 25Mw TEM 00	R-3073	\$2,500.00
JEOL	JWS-7700 – Thermal field emission SEM for defect inspection and CD with 200mm wafer full scan capability	R-3349	\$14,500.00
JJ Lloyd	T5502 – 1000lb capacity tensile and compression tester	R-1593	\$7,500.00
JMAR	Mirage – Non-contact automatic 3-axis vision and laser based tabletop measurement tool	R-2033	\$27,500.00
Jobin Yvon-SPEX/Horiba	Triax 320 – 320mm focal length spectrograph with optional IR camera	R-3978	\$9,500.00
Jobin Yvon-SPEX/Horiba	UVISEL – UVISEL spectroscopic phase modulated ellipsometer with 200-800nm range and wafer handler	R-2957	\$59,000.00
Julabo	FP 50 – -50C to 200C with 0.01C stability, proportional cooling control,	R-3178	\$5,200.00
Kashiyama	HC30B – 15cfm (460lpm) horizontal screw drive dry vacuum pump	R-3039	\$6,500.00
Keithley	192 – Programmable DMM	R-2973	\$400.00
Keithley	196	R-3869	Call
Keithley	220 – programmable current source	R-1527	\$2,495.00
Keithley	230 – Programmable voltage source with IEEE-488 interface	R-2972	\$1,500.00
Keithley	595 – Measures quasistatic capacitance (10 fF-20 nF) and DC current (1 fA-200 micro Amps)	R-4152	\$3,250.00
Keithley	619 – Electrometer/multimeter	R-2974	\$1,200.00
Keithley	7001 – High density switch system with 2 slots and up to 80 channels	R-2622	\$850.00
Keithley	705 – scanner	R-1614	\$1,950.00
Keithley	Quantox 64000 – Oxide charge measurement tool configured for 150mm wafers	R-3472	Call
Kensington	6000-3x3 – Precision stage with 0.25 micron resolution, Maxon DC motors, and 3"x3" xy travel	R-3085	\$3,900.00
Kensington	CSMT-3 – multi-station wafer handler & sorter with 3 stations	R-1916	\$4,500.00
Kensington	WFH4C TT/LR – Transfer robot including controller and interface cables	R-3408	\$12,500.00
Keyence	LC-2400A – Controller for LC laser displacement meters	R-2192	\$2,500.00
Keyence	LS-3034 – Laser scan micrometer	R-2193	\$3,500.00
Keyence	LT-8110, LT-V201, LT-8105 – Confocal laser non-contact surface profiler	R-2756	\$10,900.00
Keyence	VH-6300 – High resolution digital microscope with 900,000 pixel CCD and additional wide range zoom lens	R-2258	\$11,500.00
Kinetic Ceramics	KC1000-70-2 – KC1000-70-2 Dual channel PZT Driver/Amplifier	R-4175	\$4,995.00
Kinetic Systems	1206-200-6 – set of 4 active isolation pneumatic isolators	R-3078	\$800.00

ETS Products Catalog (as of January 07, 2011)

Kinetic Systems	2212-01-14 – 20x24 vibration isolation platform, self leveling active air design	R-3858	\$1,150.00
Kinetic Systems	400200-01-0054 – Set of 4 pneumatic isolation supports 6x6x12	R-3420	\$1,600.00
Kinetic Systems	9101-01-24 – Labmate I workstation 30x36 stainless laminated top	R-3897	\$2,350.00
Kinetic Systems	Isomax1206 – Isomax OEM isolation mounts, set of 4	R-3375	\$975.00
Kipp & Zonen	BD70 – 1 channel chart recorder	R-1429	\$1,200.00
Kistler	8636B50M05 – Low impedance accelerometer	R-2200	\$225.00
KLA-Tencor	AIT 1 – Defect inspection tool for patterned wafers, configured for 200mm wafers at up to 30wph, 0.10um sens	R-3193	\$75,000.00
KLA-Tencor	P11 – Long scan profiler with MicroHead SR low force measurement head	R-2327	\$37,500.00
KLA-Tencor	SM300 – Thin Film mapping tool for up to 200mm wafers, display s 3-D plots, diameter scans, and wafer maps	R-3195	\$14,500.00
KLA-Tencor	UV-1080 – Thin film measurement tool with broadband UV optics and dual beam spectrophotometry	R-3196	\$35,000.00
Klinger	BG 120PP – motorized translation goniometer	R-557	\$1,850.00
Klinger	BG 80 PP – motorized translation goniometer	R-558	\$1,250.00
Klinger	CC1.2 – 2 axis controller with digital display	R-2282	\$1,950.00
Klinger	CD4.4 – 4 channel motro controller with IEEE and GPIO interface	R-4097	\$1,950.00
Klinger	MC4/MD4 – Stepping motor controller for 4 axes	R-1897	Call
Klinger	MR 50 – Manual multiaxis positioner with theta	R-1901	\$750.00
Klinger	MT160-100 – MT series stage with 250mm travel	R-1903	\$2,500.00
Klinger	MT160-125-2 – 2 axis linear positioner, 125mm travel	R-553	\$4,500.00
Klinger	MT160-150 – 1 axis linear positioner, 150mm travel	R-552	\$2,500.00
Klinger	MT160-150-2 – 2 axis linear positioner	R-554	\$4,700.00
Klinger	MT160-250 – Single axis translation table with 250mm travel	R-1895	\$2,900.00
Klinger	TCB 200-600 – Single axis translation stage with 60cm travel	R-1896	\$9,500.00
Klinger	TCB200-600 – Single axis translation stage with 60cm travel, 200KgF load capacity, 10um resolution, UE72-PP motor	R-3948	\$7,500.00
Klinger	UT 100-100PP – motorized linear positioner with 100mm travel	R-1855	\$2,500.00
Klinger	UT 100-50PP – motorized linear positioner with 50mm travel	R-1856	\$2,700.00
Klinger	UT 100-75PP – motorized linear positioner with 75mm travel	R-1854	\$2,800.00
Klinger	UZ 80 – Small motorized Z axis positioner for vertical movement	R-1902	\$2,200.00

## ETS Products Catalog (as of January 07, 2011)

Koolant Coolers Inc.	HCV 2,000-PR-NF-MB – Air cooled chiller, 24,000 BTU's, 3gpm@50psi, 460v	R-3579	\$5,500.00
KP Technology	Ambient Kelvin Probe – Ambient Kelvin probe with NI-DAQ software	R-4093	Call
Kratos	LH-151N/3 – Arc lamp housing with 1000w UV quartz lamp and 3" condensing lens	R-2864	\$2,100.00
Kratos	LHM 150/1S – Lamphousing accomdates 35-200w lamps, f/1.5 focusing condenser lens, Hanovia 510C-1 lamp	R-3045	\$975.00
KSV Instruments	CAM 200 – 0-180 degree contact angle range, LED lighting, Firewire camera with telecentric lens, auto dispense	R-4159	\$22,900.00
KSV Instruments	SV10 – Sine wave vibro viscometer, range 0.3 to 10000mPa-s, Software WinCT-Viscosity	R-4158	\$5,000.00
Kulicke & Soffa	7100Ad – Precision dicing saw for silicon wafers and thin substrates up to 200mm diameter	R-3533	\$59,000.00
Kulicke & Soffa	8068 Triton – Fully automatic and programmable wedge bonder with pattern recognition system	R-3822	\$49,500.00
Kulicke & Soffa	982-6 Plus – 2" air bearing spindle, max 40,000rpm, 150mm vacuum chuck, vision system, rebuilt	R-3801	\$32,500.00
Kulicke & Soffa	Heated Workholder – 4"x4" Hot chuck for 4500 series bonders with vacuum hold down	R-3527	\$1,750.00
Labsphere	LPMS – Laser power measurement system with 4" sphere, SC-5500 power supply,	R-3155	\$4,500.00
Lakeshore Cryogenics	DRC-81C – temperature controller	R-1503	\$1,500.00
Lam Research	2600562 – 1Kw, 13.56mhz, dual Rf channel power supply	R-2266	\$4,900.00
Lam Research	590 – Oxide autoetcher remanufactured by Aspect Systems August 2000.	R-2711	Call
Lasertec	MPM157 – Phase shift mask measurement system with 157nm high power F2 excimer laser and image recognition	R-3379	Call
Lasertec	VL-2000 – 408nm blue laser confocal microscope with 0.14u resolution for CD measure and surface profiling	R-3672	Call
Lauda	KS-20D – recirculating bath, 45C-250C	R-1403	\$1,400.00
Lauda	MS5 – Immersion circulator	R-3047	\$550.00
Lauda	RCS-20D – refrigerated bath	R-1405	\$2,950.00
Lauda	RE206 Ecoline Star Edition – 6 liter bath, 1330 btu/hr, RS232, -20C to +200C, 110v	R-3402	\$2,200.00
Leica	705202 – Knifemaker for microtome	R-3577	\$1,800.00
Leica	Auto Abbe – Auto refractometer with LCD display and temperature compensation	R-1497	\$2,500.00
Leica	DM4000M – Reflected light with brightfield, darkfield, and fluorescence modes	R-3639	Call
Leica	DMRXA – IC inspection microscope with electronic focus, wafer loader and brightfield, darkfield inspection	R-2324	Call
Leica	GZ6 – Binocular stereozoom with boom stand, 6.7-40x	R-2198	\$1,450.00

## ETS Products Catalog (as of January 07, 2011)

zoom, 10x eyepieces

Leica	GZ7 – Stereozoom with 10x–70x range, camera adaptor, Fluorescent light	R–2934	\$3,200.00
Leica	GZ7 – 10–70x, 10x eyepieces, camera adaptor, reflected light stand	R–3730	\$2,800.00
Leica	INS1000i/ INM200 – 200mm inspection station with dual cassette handling, macro/alignment station, INM200 microscope	R–3303	\$19,500.00
Leica	M8 – Stereozoom with 8:1 zoom ration and total magnification from 12.6x–100x	R–2951	\$4,500.00
Leica	MZ 9.5 – 9.5:1 zoom ratio, 10x/21B eyepieces, DI dual horizontal arm boom stand, 150w fiber illuminator	R–4048	\$6,500.00
Leica	MZ12 – Stereomicroscope with 12.5:1 zoom range, tilting ergotube, boom stand	R–2567	\$7,500.00
Leica	MZ6 – Stereozoom with Ergohead and fiber optic illuminator	R–1847	\$4,900.00
Leica	MZ6 – MZ6 binocular stereozoom with 10x eyepieces, boom stand, and 1.0x objective	R–3304	\$1,900.00
Leica	MZ8 – Stereozoom with 8:1 zoom range, boom stand, Ergotube, and fiber optic illuminator	R–2958	\$6,500.00
Leica	RM2065 – Motorized sectioning microtome with stereozoom microscope	R–3540	\$7,500.00
Leica	S6 – Stereomicroscope with 6.3–40x zoom, ESD coating	R–2398	\$1,550.00
Leica	S6E – Stereomicroscope with 6.3–40x zoom, 10x eyepieces, and stainless boom stand	R–3728	\$1,900.00
Leica	SZ4 – Stereozoom 4 microscope with boom stand, 10x eyepieces and tungsten illuminator with power supply	R–2473	\$1,250.00
Leica Wild	M3Z – Research stereozoom with 6.5–40x range, camera tube, stand with 4x4 stage	R–3641	\$5,200.00
Leica Wild	M8 – stereozoom with 10x eyepieces and 1.0x objective, zoom range 6.0–50x	R–3954	Call
LeicaZeiss	custom – Custom inspection microscope, Zeiss optics, Leica frame	R–4072	\$15,900.00
Lesco	Superspot – Stainless enclosure, >6000mw/cm2, digital timer, liquid filled light guide	R–3133	\$1,950.00
Lesco	Superspot MK II – UV spot cure with digital timer	R–1986	\$2,500.00
Leybold	150V – 150/360 power converter, 145l/s	R–429	\$2,500.00
Leybold	151C, NT–20 – 145lps turbo pump with ceramic bearing	R–427	\$3,500.00
Leybold	282–03 – right angle stainless bellows valve	R–270	\$400.00
Leybold	287 73 V2 – Right angle aluminum bellows valve with electro solenoid control and KF40 flanges	R–3067	\$800.00
Leybold	297 22 B2 – right angle pneumatic bellows valve	R–269	\$250.00
Leybold	360V – 400lps, 4" ASAflange, vertical orientation, water cooled, oil bearing	R–430	\$2,500.00
Leybold	50P – 27cfm, 45–55m3 /hr, ultimate pressure 1.5x10–2 mbar, 5.3hp, 208v/1	R–3585	\$6,500.00

## ETS Products Catalog (as of January 07, 2011)

Leybold	89600B2 Quiktest – (accessory for Ultratest F or M), 220v, includes probe	R-313	\$1,500.00
Leybold	900-070-P1/900-031-P – heating jacket for Leybold IPC-2	R-271	\$550.00
Leybold	ARS40/65 – Exhaust filters for Leybold D40B and D65B pumps	R-2151	\$850.00
Leybold	CF4-25 – cat no.10196 chemical oil filter/element	R-411	\$250.00
Leybold	D1.6 – 1.6cfm, 2 stage	R-391	\$900.00
Leybold	D16A – 14cfm, 2 stage	R-393	\$1,400.00
Leybold	D16BCS – 13.4cfm, corrosive service, chemical oil filter	R-397	\$1,900.00
Leybold	D25BCS – 20.9cfm, corrosive service, chemical oil filter	R-398	\$2,800.00
Leybold	D25BCS – 20.9cfm, full modular pump system for corrosive service	R-402	\$3,500.00
Leybold	D30A – 26.8cfm, 2 stage	R-394	\$1,650.00
Leybold	D30AC – Chemical pump, 26.58 cfm	R-1963	\$2,100.00
Leybold	D40BCS – 32.5cfm Fomblin charged pumping system with oil filter and exhaust pump on base	R-2698	\$4,500.00
Leybold	D40BCS – 32.5cfm, corrosive service, chemical oil filter	R-399	\$4,200.00
Leybold	D40BCS – 32.5cfm, full modular pump system for corrosive service	R-403	\$7,200.00
Leybold	D40BCS – D40BCS 32.5cfm modular pumping system with Foblin charge, oil filtration, exhaust filter	R-2683	\$4,500.00
Leybold	D60A – 36.7cfm, two stage	R-395	\$1,800.00
Leybold	D65BCS – D65BCS pumping system with Fomblin charge, exhaust filter, oil filtration, controller	R-2682	\$6,500.00
Leybold	D65BCS – 53.0cfm, corrosive service, chemical oilfilter (CFS40-65)	R-400	\$5,950.00
Leybold	D8A – 7cfm, 2 stage	R-392	\$650.00
Leybold	D90AC – Chemical pump, 55cfm, two stage	R-396	\$2,200.00
Leybold	Leybold – WAU251 blower and D40B pump package	R-1784	\$6,500.00
Leybold	M100S – 59cfm, 5hp	R-408	\$6,500.00
Leybold	NT1000/1500VH – Frequency converter for TMP600 and 1000 pumps	R-3452	\$2,900.00
Leybold	NT-20 – power converter	R-1682	Call
Leybold	OF-1000 – Single canister OF-1000 filtering system with new Aluminum oxide element	R-412	\$850.00
Leybold	RST-25KF – foreline trap, refillable	R-413	\$375.00
Leybold	ST100 – Standard probe for Ultratest UL100	R-4095	Call
Leybold	TMP-050, NT10 – Turbovac 50, 55lps, ISO-63 flange, oil bearing	R-426	\$2,900.00
Leybold	TMP-150 – turbo pump	R-1683	\$3,600.00
Leybold	TMP-1501, NT-1500 – 1450lps air, LF250inlet	R-434	\$4,800.00

ETS Products Catalog (as of January 07, 2011)

Leybold	TMP-340M – 270 lps, magnetic bearing, NT340M/I power converter	R-428	\$6,500.00
Leybold	TMP-360, NT360 – 345lps, ceramic bearing, water cooled	R-431	\$3,500.00
Leybold	TNP-450, NT-360 – 450lps, watercooled, oil bearing	R-432	\$2,600.00
Leybold	UL 500 – Fully automatic leak detector with turbopump, D25B roughing pump	R-2654	\$17,500.00
Lightnin	L1203 – 1/30hp, 1800 rpm mixer	R-1530	\$550.00
Lightnin	L1208 – 1/10 hp, 1800 rpm mixer	R-1531	\$850.00
Lightwave Electronics	SPW1047 – 1047nm diode laser, pn78034	R-4180	Call
Lindberg	58434 – 3 zone digital temperature controller	R-707	\$2,900.00
Lindberg	controller – 1 zone, 1000c tube furnace	R-706	\$1,800.00
Lindberg/Blue M	RWB3220A-2 – Refrigerated/heated water bath, 0-100C, 0.1C uniformity, chamber 12x18x7.5", 120v	R-3976	\$4,500.00
Lindgren Rf	? – Dark box with Rf and EMI shielding	R-1907	\$2,250.00
Lindgren Rf	6064 – Monoaxial type, 23.9" coil radius, 56 turns/coil, 65.25 amps, maximum continuous field 16.5 Gauss	R-4111	\$8,900.00
Linear Instruments	2500 – 3 channel chart recorder	R-1432	\$1,200.00
Linear Instruments	555/585/595 – laboratory chart recorder	R-1431	\$500.00
Ling Dynamic Systems	V556 – vibration generator on trunnion base	R-753	\$9,500.00
Ling Electronics	420B – shaker, max 100lb sine force, trunnion base	R-755	\$2,900.00
Ling Electronics	AGM 4000-4001 – four channel digital signal conditioning amplifier	R-754	\$950.00
Linkam Scientific Instruments	FDCS196, TMS94, VC94, LNP93/2 – Freeze drying system including stage, temperature and vacuum controller, LN2 cooling pump	R-3548	\$9,750.00
Loctite	M205A – pneumatic dispenser cyanoacrylate	R-787	\$1,600.00
Loctite	Zeta 7000 – ultraviolet curing system	R-790	\$1,400.00
Loctite	Zeta 7050 – ultraviolet curing system with digital timer	R-791	\$2,300.00
Logitech	1ACCS-0100 – New unused rotary vacuum adaptor	R-3965	\$850.00
Logitech	1PLE1-0700 – 30cm (12") stainless platten with expanded polyurethane, liftoff, PP6	R-3855	\$2,500.00
Logitech	1PP56 – 1PP56 polishing jig for Lithium Niobate with standard accessory kit	R-3329	\$8,500.00
Logitech	1WBT2 – 3 station fully automatic wafer bonder for II-VI and III-V substrates	R-2592	\$19,500.00
Logitech	PP5/PSM1 – Programmable sample monitor and digital linear guage.	R-2596	Call
Logitech	PP5D – Polishing jig for PM5 or PM50 lapping and polishing tools	R-2702	\$5,900.00
Logitech	PP5D – Polishing jig with adjustable angle and programmable sample monitor	R-3138	Call

## ETS Products Catalog (as of January 07, 2011)

Logitech	xxx – 350mm stainless platten with Poly for PM50 lapping machine	R-4055	\$1,850.00
Logitech	xxx – 300mm aluminum platten for PM5 lapping machine	R-4056	\$1,100.00
Logitech	xxx – 300mm stainless steel polishing platten with glass for PM5	R-4069	\$1,400.00
Lucas	A400VDS – (vacuum diagnostic system) base station	R-332	\$6,500.00
Ludl	MAC 2000 – Automated wafer inspection tool for up to 150mm substrates with Leitz Ergolux microscope	R-3026	\$19,500.00
Ludl	Polylite 88 – 200mm automated inspection station with Reichert PolyLite 88 microscope and Ludl wafer handling	R-3205	Call
Lufan	065-CE-480-100-U-CE – flow through flash deionized water heater	R-207	\$19,500.00
Luxtron	100C – Optical fiber temperature control system	R-4117	\$950.00
Luxtron	750 – Fluoroptic thermometer with 4 channels and temp range of 200c-450c	R-1504	\$1,500.00
Luxtron	755 – 4 channel fluoroptic thermometer with -200c to +450c range, precision 0.1c RMS	R-1505	\$2,500.00
Luxtron	755HG – fluoroptic thermometer 4 channel	R-1506	\$3,500.00
Luxtron	MSA, MEL, ASC, MHA, MIHR – probes, MEL-02-10530/	R-1507	\$250.00
Lytron Corp	RC022J02BB2 – Chiller with 2200w capacity and 1.3gpm positive displacement pump	R-2391	\$1,800.00
Macbeth	RD912 – Reflectance densitometer	R-2251	\$1,450.00
Mactronix	T16-500D – Flat finder for A72-50M cassette	R-2865	\$350.00
Malcom Instruments	PCU-201 – Laboratory digital spiral viscometer for solder paste	R-1813	\$4,800.00
March Instruments	PX-250 – Plasma cleaner with 300w power at 13.56mhz	R-2277	\$21,500.00
Mariam Instruments	JLP2000I – Pressure display with 0.1% accuracy and 2000in H2O range	R-3946	Call
Material Development	CSM/2 – CV plotter, 8512 duochuck with dual 6"chucks	R-443	\$9,500.00
MDC Vacuum Products	GV-1500V-P – New unused high vacuum stainless 1.5" gate valve, Viton seal, pneumatic, MDS pn 301001	R-4077	\$675.00
MDC Vacuum Products	LGV-4000V-P – 4" pneumatic high vacuum gate valve, ISO port flange, metric thread, Viton seals, pn307005	R-3087	\$1,000.00
MDC Vacuum Products	RGV-110P – High vacuum gate valve with C-lock, stainless steel, Viton O-ring, electro-pneumatic	R-3093	\$2,500.00
Mechanical Technology	MTI 1000 – fonic sensor MTI-3808plug in/KDP-062R optic probe	R-756	\$2,150.00
Mechanical Technology	MTI-1000/02 – fonic sensor	R-757	\$2,400.00
Mechanical Technology	MTI-2000 Fonic Sensor – Fiber optic displacement and vibration sensor with dual channel input and 1 2125R input modules	R-3030	\$3,200.00
MEI	779 – Manual pick and place/ epoxy die attach, tip weight 0-150grams, small dot dispenser	R-3111	\$3,250.00

## ETS Products Catalog (as of January 07, 2011)

MEI	907 – manual wedge bonder with heated tip for Au and Al wire	R-723	\$4,500.00
MEI	Vari-Q (CVQ-200ISO-SM) – throttling valve,	R-272	\$1,800.00
Meiji	EMZ-TR – Inspection station with stereozoom on boom over large stage with 10"x15" xy travel	R-2022	\$2,900.00
Melles Griot	05-LLR-851 – 632.8nm, HeNe, 5mw, beam diameter 0.8mm, random polarization, 110v	R-1451	\$400.00
Melles Griot	06-DLD-03 – Diode laser driver	R-1452	\$1,950.00
Melles Griot	07 TRS 501 – Rotation stage with micrometer adjustment +/-5 degrees	R-2937	\$350.00
Melles Griot	07 LHJ 003 – self centering lens holder	R-560	\$185.00
Melles Griot	07 MAD 005 – Gimbal type mirror mount	R-561	\$425.00
Melles Griot	07 MBS 005 – bracket type mirror mount	R-562	\$175.00
Melles Griot	07 TAC 004 – Aluminum translation stage	R-2061	\$125.00
Melles Griot	07 TEZ 004 – 65mm x 65mm vertical translation stage, 10mm travel, 5Kg load capacity, 1/4-20 mounting holes	R-4062	\$475.00
Melles Griot	07 TNC 027 – 2 axis stage with Nanomovers, 25mm travel, 10nm resolution	R-3746	\$2,500.00
Melles Griot	07 TRT 002 – stage	R-563	\$250.00
Melles Griot	07 TSZ 004 – Vertical translation stage with micrometer	R-1952	\$400.00
Melles Griot	07TEC507 – Steel 120mm x 120mm single axis translation stage with 0-40mm micrometer	R-3710	\$310.00
Melles Griot	09 LBM 015 – 20x beam expander	R-564	\$825.00
Melles Griot	11 NC 001 – Nanomover control system with 4 outputs	R-3747	\$2,700.00
Melles Griot	17 AMA 061 – Table mounting plate for 17 LNR 001 linear stages	R-2499	\$115.00
Melles Griot	17 AMA 062 – Vertical mounting bracket for 17 LNR 001 linear stages	R-2498	\$125.00
Melles Griot	17 DRV 001 – Stepper motor driver for NanoMax-HS flexure stages	R-2486	\$350.00
Melles Griot	17 DRV 002 – Differential micrometer for 17 MAX 300/600 (NanoMax-HS) stages, 8mm travel x 50u resolution	R-4027	\$275.00
Melles Griot	17 LNR 001 – 1 axis linear long travel translation stage	R-2497	\$3,200.00
Melles Griot	17 MAX 302 – Nanomax-HS 3 axis flexure stage with internal piezo drivers and 3 differential micrometers	R-3711	\$2,900.00
Melles Griot	17 MAX 605 – NanoMax-HS six axis flexure stage with active position feedback on all axes	R-2488	\$3,500.00
Melles Griot	17 MDU 001 – Nanostep 1 axis motor controller with IEEE-488 interface	R-2496	\$850.00
Melles Griot	17 NTT 101 – NanoTrak autoalignment system, IEEE-488	R-3714	\$6,500.00
Melles Griot	17 PCW 001 – Piezoelectric controller without feedback, 3 channels 0-75vdc, 75ma per channel	R-3713	\$1,950.00

## ETS Products Catalog (as of January 07, 2011)

Melles Griot	17 PCZ 013 – 3 channel piezoelectric controller with feedback and IEEE-488 interface	R-2494	\$2,900.00
Melles Griot	17DRV517/R – Piezoelectric driver for 17 MAX 300/600 stages, closed loop with feedback, 20um travel, 5nm res	R-4028	\$750.00
Melles Griot	StabileTop 350, Superdamp Isolators – set of (4) 24" self leveling vibration isolators	R-4089	\$5,950.00
Met One	229 – 0.3 micron, 1cfm	R-2360	\$1,250.00
Met One	3313 – 1cfm particle counter with 0.3–10u, AC/battery, 6 channels, laser diode source	R-3966	\$9,800.00
Met One	A237B-.3-.1-1 – Particle counter with 0.3u sensitivity, 0.1cfm flow rate, printer	R-2791	\$2,800.00
Met One	A2400-1-115-1 – Particle counter with 0.3u sensitivity, 1cfm flow, printer	R-3257	\$3,800.00
Met One	HHPC-2A – 0.3micron sensitivity, flow rate 0.1cfm, 2 channel, handheld, rechargeable	R-3955	\$1,750.00
Metricon	2010 – Prism coupler with 633nm HeNe laser, PC, monitor, Seiko printer	R-2397	\$11,500.00
Metricon	2010 – Prism coupler with 532nm green laser and 633nm red laser	R-2431	\$12,900.00
Metricon	2010 – Prism coupler with 633nm and 1550nm laser sources	R-2450	\$14,900.00
Metricon	2010 – Prism coupler with 633nm HeNe laser, PC, monitor, Seiko printer	R-2954	\$11,500.00
Metricon	2010 – Prism coupler with 633nm HeNe laser, PC, monitor, Seiko printer	R-3008	\$12,000.00
Metricon	2010	R-3820	\$11,500.00
Mettler	DL-40RC – Karl Fischer titrator	R-1382	\$2,500.00
Mettler	FP62 – Temperature range to 300C, 0.1C accuracy, requires 1–3mg sample,	R-4172	\$2,150.00
Mettler	PG503-SDR – 510g capacity delta range, .01/.001g resolution	R-3684	\$1,650.00
Mettler	TA72 – thermal analysis software	R-1374	\$2,400.00
Microautomation	1006A – Dicing saw for up to 150mm substrates, split field video	R-2514	\$12,500.00
Microautomation	MA1100 – Programmable dicing saw for up to 150mm wafers, split field video, and service unit	R-2796	\$14,000.00
Microautomation	MA1100, 2006 – Programmable dicing saw for up to 150mm wafers, split field video, and service unit	R-2797	\$14,000.00
MicroJoin	HTT-1000-115-0 – Programmable reflow solder power supply	R-3867	\$3,500.00
MicroJoin	HTT-1000-115-OA	R-3868	\$3,500.00
MicroJoin	RSM 4000 – Dual hot bar solder reflow system with flux dispense and pneumatic operation	R-3618	\$8,500.00
MicroJoin	VTA-66-B-B-A – New medium force parallel gap electrode welding head	R-2706	\$1,800.00
MicroJoin	VTA-90-B-B – Light force weld head with opposed electrode conversion kit	R-2705	\$2,450.00

ETS Products Catalog (as of January 07, 2011)

MicroJoin	VTA-96 – Light force weld head with stand, microscope, and fiber illuminator	R-2910	\$3,150.00
MicroJoin/ McGregor	VTA60, VTA66, MD10VR230NF – Linear DC power supply with MicroJoin VTA-66 and VTA-60 weld heads	R-4119	\$10,950.00
Micromanipulator	2250 – Large area display manual probe station with Mitutoyo microscope	R-2511	\$23,500.00
Micromanipulator	450/550 – submicron micropositioner with vacuum base	R-1774	\$975.00
Micromanipulator	6150 – 150mm wafer chuck, 6x6 stage xy, Mitutoyo microscope with 2/10/20x M Plan	R-4155	\$18,500.00
Micromanipulator	6700/TPO317B5-1 – Motorized stage with joystick control, B&L Microzoom microscope with 150w fiber optic light source	R-2145	\$12,900.00
Micromanipulator	7A, 7B, 7G – Disposable tungsten probe tips	R-1877	\$50.00
Micromanipulator	7F, 7X – Disposable tungsten probe tips	R-1878	\$90.00
Micromanipulator	FET-PS4 – Active probe, high impedance	R-1905	\$1,250.00
Micromanipulator	FPC-FRX – probe card holder for 6100/6200 probers	R-1775	\$850.00
MicroMetric	Microline 300 – Critical dimension measurement tool with Olympus MX-50 microscope,	R-2757	\$49,500.00
Micronics Japan Ltd.	705A – Manual prober with 150mm wafer chuck, XY microscope mount, B&L stereozoom 7	R-3394	\$8,900.00
Microtronic	custom – Sorter with dual cassette handling, laser cross slot detection, macro station, dual arm Ludl robot	R-3335	Call
Miller Design & Equipment	2006 – 6" manual probe station with Leica Monozoom and CCD color camera	R-2736	\$12,500.00
Millipore	Cartridge filter – stainless steel crossflow filter	R-1534	\$1,200.00
Millipore	FC-2900V – 1000 SCCM/N2	R-3570	\$650.00
Millipore	XX 440-4700 – 80mm stainless filter holder	R-1532	\$450.00
Mitutoyo	APO SL 50X – Apo 50x long working distance objective with 0.42NA and 20.5mm working distance	R-2848	\$2,000.00
Mitutoyo	AR-10 – Rockwell hardness tester no. 810-200E, force range 10kg(98.07N), dial display	R-4075	\$3,500.00
Mitutoyo	BD Plan APO 50 – Apochromatix 50X brightfield/darkfield objective lens	R-2829	\$1,950.00
Mitutoyo	BH-303 – coordinate measuring machine 12"x12"x12", air bearing	R-1571	\$9,500.00
Mitutoyo	FN-303 – Air bearing coordinate measurement tool with PH9 Renishaw probe	R-2212	\$18,000.00
Mitutoyo	M Plan NIR-100x (378-826) – Long working distance, brightfield field, visible to 1800nm	R-3360	\$3,100.00
Mitutoyo	M Plan NIR-20X (378-8241) – Long working distance objectives for visible to NIR applications	R-2828	\$1,900.00
Mitutoyo	M Plan NIR-50x (378-8251) – Long working distance, brightfield field, visible to 1800nm	R-3359	\$2,400.00
Mitutoyo	M Plan NIR-5X (378-822) – cat no.378-822, 5x, NA 0.14, working distance 37.5mm	R-3776	\$875.00

## ETS Products Catalog (as of January 07, 2011)

Mitutoyo	MVK-H300 – Microhardness tester with digital reticle and 50g–2kg force range	R-3525	\$14,500.00
Mitutoyo	PJ-3005F-100 – optical comparitor with 12" screen and xy stage	R-2152	\$4,900.00
MKS	1258B-00100SK – 100 SCCM	R-3564	\$375.00
MKS	1259C – 200 SCCM/ N2	R-3566	\$450.00
MKS	146B – Vacuum gauge controller	R-2574	\$1,675.00
MKS	147B – Mass flow programmer	R-3556	\$2,900.00
MKS	152-0025K – Right angle bellows valve, KF25, air operated, new	R-3573	\$175.00
MKS	167 – Digital MFC flow display with interface cables	R-3571	\$425.00
MKS	220BHS-2AI-A-1 – capacitance manometer 0–1 torr	R-293	\$600.00
MKS	2258A-00100RV – 100 SCCM	R-3565	\$350.00
MKS	2259C-00050RV – New 50 SCCM mass flow controller calibrated for Nitrogen	R-2446	\$850.00
MKS	250B-1-A – mass flow display	R-1803	\$500.00
MKS	250B-1-D – mass flow controller	R-294	\$700.00
MKS	252-1-VPO – exhaust valve controller	R-296	\$800.00
MKS	252C-1-VPO – Exhaust valve controller	R-3063	\$800.00
MKS	253A-1-2CF-1 – 2 3/4" conflat, viton flapper seal	R-1979	\$1,450.00
MKS	260 – modular flow controller	R-297	\$3,900.00
MKS	270C-5 – digital display for signal conditioner	R-299	\$1,400.00
MKS	290B-01 – ion gauge controller	R-301	\$625.00
MKS	GBR1A – 2–2000sccm gas box Rate of Rise In Situ flow verifier	R-3560	\$4,500.00
MKS	Optima OPT-200 – 20kW DC power supply for PVD processes	R-3790	\$11,500.00
MKS	Orion – process monitoring system closed ion source	R-333	\$15,000.00
MKS	PFTS1A-24678 – Precision flow measurement system with base cabinet and MKS 167 controller. Range 2SLM, 20SLM	R-3913	\$24,500.00
MKS	PPT-1A-100FC	R-3469	Call
MKS	Type 120AA-00001RAJ – Absolute pressure transducer, Range 1 Torr	R-2110	\$1,500.00
Motorguard	317300 – oil filter, 1.9 lpm, 3 filters, 0.1micron	R-414	\$950.00
MRL Industries	Helix II – Helix II element with 400–1300C range, stainless steel shell, 13"ID large bore	R-3141	Call
MRL Industries	SBR200355 Bandit 218 MS LH – LPCVD furnace, 2 tubes, 200mm, gas cabinet, vacuum pumps and piping	R-4136	Call
MRSI	MRSI-505 – DOS based operating system, left and right conveyors,	R-3378	\$85,000.00

## ETS Products Catalog (as of January 07, 2011)

MRSI	PR-53 – 150mm vacuum chuck, B&L stereozoom 7	R-1939	\$14,900.00
MTS Systems Corp	643.20A-01 – Pair 200mm (8") compression plattens for Alliance RT tester	R-3935	Call
MTS Systems Corp	MTI-1000 – Non contact measurement of displacement and vibration	R-3932	\$1,500.00
MTS Systems Corp	MTI-1000 – Non contact measurement of displacement and vibration	R-3933	\$1,100.00
Multichannel Instruments	Raptelle 20000 – Optical spectrum analyzer for DWDM spectral test and measurement	R-2676	\$18,500.00
Multicore	Multicore solder tester – solder wetability analyzer	R-800	\$1,800.00
Multicore	MUST system II – Precision solderability tester for SMD, PCB, Hybrids	R-1824	\$21,000.00
N&K Technology	1200 – Broadband Spectroscopic film analyzer	R-1851	\$7,500.00
Nanometrics	181 – Automatic film thickness gauge for measures 11 film types	R-2943	\$6,500.00
Nanometrics	4150 – Tabletop film thickness measurement tool with autofocus and mapping stage	R-3510	\$36,000.00
Nanometrics	8300X – 200mm/300mm film measurement tool with spectroscopic ellipsometer and UV capability	R-3526	\$95,000.00
National Instruments	777141-01 – New TBX-68 I/O connector block with DIN rail mounting	R-2634	\$75.00
National Instruments	777309-91 – New 5B series 8 CH backplane Rev 1, no cable	R-2630	\$150.00
National Instruments	777481-01 – New PXI-6040E and NI-DAQ software for Windows NT	R-2631	\$650.00
National Instruments	777484-01 – CCA, PXI-6040E	R-2639	\$750.00
National Instruments	777711-04 – New PXI-7314 4-axis open loop step controller	R-2635	\$775.00
National Instruments	777802-01 – New PXI-6527 48 bit, isolated digital I/O	R-2632	\$300.00
Navitar	Zoom 6000 – motorized zoom 6000 lens with coaxial lighting	R-2867	\$1,475.00
NEAT	XYR-1111 – XYZ low profile stage with 8" travel and 20u positional accuracy and <1u repeatability	R-3068	\$12,000.00
NEAT	XYR-1511, 700 – XYZ-theta stage with 200mm wafer stage, 4-axis servo amplifier, and Galil servo controller	R-2842	\$12,000.00
Neslab	EN850 – flo thru chiller, 860 btu's,	R-216	\$800.00
Neslab	EX-410 – heated recirculating bath ambient to 130c	R-1407	\$975.00
Neslab	EX-411 – Temperature bath, digital display, ambient to 100C, 5.8gal bath volume	R-3615	\$1,500.00
Neslab	HX+150 – 11250 BTU/hr, CP-25 positive displacement pump 3.5gpm at 50PSI, +5 to 35C, 1.5hp, 208-230v	R-3678	\$4,950.00
Neslab	HX+75A – New unused chiller, 6820BTU@ 20C, range 5-35C, 5 gal reservoir	R-3945	\$5,950.00
Neslab	RTE-221D – Recirculating bath with -25c to 150c operating range	R-2242	\$1,750.00
Neslab/Brookfield	EX-100 – heated bath, temp range -30C to 120C,	R-3962	\$750.00

## ETS Products Catalog (as of January 07, 2011)

0.01C stability, 110v			
Neslab/Brookfield	EX-200 – temperature range –30 to 120C, analog control, stability .01C	R-1512	\$900.00
Neslab/Brookfield	TC-500 – –10C to 130C, stability 0.03C, 800 watts, 5 liter capacity, work area 6x7x5", 110v	R-4087	\$1,150.00
New Focus	9095 – 5 axis multimode fiber launcher with 4.4u resolution	R-4130	\$200.00
Newport	150 – low profile heavy duty magnetic base with 200lb capacity and 1/4–20 mounting holes	R-4001	\$225.00
Newport	271 – Lab jack, platform 4.375"x 6.5", operating range 2.5" to 4.25"	R-3773	\$475.00
Newport	2832C	R-2416	\$1,950.00
Newport	2832C	R-2417	\$1,950.00
Newport	423 – xy stage with 1"x1" travel, SM-25 micrometers, 35lb load capacity	R-3885	\$185.00
Newport	460A – Low-Profile Integrated Ball Bearing Linear Stage, 0.5 inch X Travel	R-3942	\$145.00
Newport	460P-XYZ – 3 axis stage with 460P-BA baseplate, 1/4–20 holes	R-3715	\$550.00
Newport	461-XYZ – XYZ stainless steel crossed roller bearing stage,	R-4063	\$650.00
Newport	481A – manual rotation stage with 360 degrees of motion and 5 degrees of fine motion	R-3583	\$250.00
Newport	561D – 561D 3 axis stage with 561-TILT-LH, option: (3)AD-100/ AD-30 actuators	R-3941	\$1,100.00
Newport	561GON – Miniature goniometer with 20 degrees of motion	R-1950	\$400.00
Newport	818-IR – 850–1700nm Broadband fiber optic germanium detector	R-2422	\$350.00
Newport	818-IR – 850–1700nm Broadband fiber optic germanium detector	R-2420	\$350.00
Newport	818-IS-1 – InGaAs/Si universal fiber optic detector, 400–1650nm range	R-2421	\$1,650.00
Newport	850F, 436, TGN80 – Single axis stage (436)with motorized actuator (850F) and tilt table (TGN80)	R-2561	\$1,150.00
Newport	850G – Closed loop precision DC actuator, 50mm travel, 40–500um/s speed, accuracy 1% of travel	R-3410	\$775.00
Newport	910 – Five axis spatial filter includes M-10x objective lens and 25um pinhole	R-3422	\$400.00
Newport	AD-100 – Ultra high resolution electrostrictive actuator, 13mm course travel, 100u fine travel	R-3409	\$875.00
Newport	AD-30 – Ultra high resolution electrostrictive actuator, 13mm course travel, 30u fine travel, drive using c	R-3940	\$775.00
Newport	CMS – Cable management system for breadboard mounting	R-2727	\$100.00
Newport	D-100ir-ST – High speed detector, 950–1650nm, 100ps pulsewidth, 4Ghz bandwidth	R-3251	\$1,200.00

ETS Products Catalog (as of January 07, 2011)

Newport	DM-13 – differential micrometer with 12mm travel	R-4064	\$300.00
Newport	DMH-1 – 1um resolution, 1.0" travel, compatible with all 461/462/561/562 Newport stages	R-4065	\$175.00
Newport	ESA-C – 3 Axis controller with submicron positioning capability and GPIB interface	R-2179	\$2,500.00
Newport	ESA-CX – udrive controller	R-2492	\$650.00
Newport	ESA-CXA – 3 axis microdrive controller	R-2917	\$900.00
Newport	ESP6000-10 – PC based motion controller card with 100 pin UNIDRIVE interface cable	R-3982	\$1,400.00
Newport	ESP-7000 – Universal motion controller with driver cards for 6 axes	R-4170	\$4,500.00
Newport	LW4500 – 3 beam YAG laser component welding workstation with PCS platform automation design software	R-3424	\$139,000.00
Newport	LW4500 – 3 beam YAG welding workstation for laser welding of both active and passive photonic components	R-3486	\$149,000.00
Newport	M-426 – Single axis linear translation stage with SM-25 micrometer (0-1")	R-3200	\$325.00
Newport	M-433 – Low profile precision ball bearing translation stage, 1.8" travel, actuator not included	R-4132	\$150.00
Newport	M-436 – Crossed roller bearing translation stage, 0-2" travel, actuator not included	R-4133	\$350.00
Newport	M-BGM 160MS – Manual drive goniometer with 160mm diameter and .001 degree angular resolution	R-3292	\$6,500.00
Newport	MM3000-OPT – 4 axis controller	R-1993	\$3,500.00
Newport	MM4005 – Multi-axis motion controller with 1 motor driver card (opt.7F)	R-2801	\$3,500.00
Newport	MM4006 – Multi-axis motion control and driver with 6 axes of DC and stepper motor control	R-2239	\$5,500.00
Newport	MM4006 – Multi-axis motion control and driver with 6 axes of DC and stepper motor control	R-2798	\$5,500.00
Newport	M-MFN25CC – Stepper motor driven single axis translation stage	R-2433	\$875.00
Newport	M-TSW150 DC-S10-P1 – Precision linear xy stage, 6" travel, 12"x12" work surface, Heidenhahn 473	R-3389	\$4,200.00
Newport	M-URM80PP – Motorized rotation stage with 80mm diameter stage, UE41PP motor	R-3604	\$2,150.00
Newport	M-UTM25PP1HL – Linear translation stage with 25mm (1") travel, UE41PP stepper motor driver	R-3606	\$1,750.00
Newport	M-UTM25PP1HL – Linear translation XY stage with 25mm (1") travel each axis, UE41PP stepper motor driver	R-3607	\$3,500.00
Newport	M-UTM50PP1HL – Linear translation stage with 50mm (2") travel, stepper motor driver, 1um resolution (HL)	R-3605	\$1,950.00
Newport	Orion FX-3 – Semiautomated 3 axis fiber alignment system	R-2953	\$12,900.00
Newport	PM500-16LW.100 – Ultra precise crossed roller bearing 7075 aluminum stage with 12" linear motion and 0.1um	R-2555	\$12,000.00

ETS Products Catalog (as of January 07, 2011)

	resolution		
Newport	PM500-1A.100 – Ultraprecision motorized closed loop DC actuator	R-2724	\$2,500.00
Newport	PM500-1L – Ultra precision compact linear stage with PM500C controller	R-2436	\$5,900.00
Newport	PM500-1V.50 – Ultra precision compact linear stage with vertical movement and 0.05u resolution	R-2587	\$5,950.00
Newport	PM500-33LR0120 – Precision xy-theta stage with 80mm x 80mm x 360 travel,	R-3905	\$14,000.00
Newport	PM500-4L.100 – Ultra-precision linear stage with Newport PM500C6 controller	R-2435	\$7,500.00
Newport	PM500-4L-OPT-10-10-02 – New ultra-precision 4"x4" xy stage with 100nm resolution	R-3215	\$9,500.00
Newport	PM500-C6 – Brand new 6 axis controller/driver, 1-6 axes closed loop control of PM500 DC motor drivers	R-4042	\$3,200.00
Newport	RS-3000-48-8, I2000-N28 Stabilizer – 48"x96"x8" breadboard with set of (4) 28" high Stabilizer isolation legs	R-4169	\$5,720.00
Newport	RS4000-55-8 – Vibration isolation workstation with 60"x60"x8" research grade breadboard	R-2617	\$4,200.00
Newport	RTM350PP – Rotation stage with 28cm internal diameter, UE63PP 60vdc stepper motor, ESP compatible	R-3608	\$6,500.00
Newport	RV120CCHL – New RV series rotation stage, DC servo high torque, 0.001deg resolution, maximum speed 16deg/s,	R-3977	\$3,200.00
Newport	SG-24-2 – 2'x3'x2 3/8" breadboard with 1/4-20 holes 1" OC	R-3898	\$900.00
Newport	SG-25-4 – Scientific grade 2'x5'x4" breadboard	R-2211	\$1,100.00
Newport	SG-34-2 – 24"x36" x2" breadboard with 10"diameter hole in center	R-2535	\$700.00
Newport	SR-170-CF – High resolution, high transmission optical spectrum analyzer, 1520-1580nm, 6GHz spectral range	R-3708	\$6,950.00
Newport	TBM600PE10 – 24" travel, UE62PP stepper motor U=60VDC	R-3612	Call
Newport	TBMC600 10um – 24" travel, UE62PP stepper motor 5V	R-3611	Call
Newport	TGN80 – single axis tilt platform, travel range 2.5 degrees, 44 lb load capacity	R-4134	\$320.00
Newport	TS100X100DC.5 – Precision linear XY stage with 100mm travel and 0.5 micron resolution	R-2579	\$7,500.00
Newport	TST150DC.1X150DC.1 – Transmitted light XY stage with 6"x6" xy travel and 0.1micron resolution	R-2844	\$16,500.00
Newport	TSW150DC1 – xy stage with 1.0 micron resolution and 6x6 travel	R-2001	\$8,500.00
Newport	TSW300DCxTSW300DC/RTM160CC – Wide platform precision linear XY-theta stage with 12"x12" XY travel and 360 rotation	R-2618	\$16,500.00
Newport	TSX-1D – (2) Dovetail linear stages TSD-1X in XY configuration	R-4002	\$200.00

ETS Products Catalog (as of January 07, 2011)

Newport	UM5.16, UTR46A – 2 axis translation stage with theta and baseplate	R-1951	\$800.00
Newport	UNIDRIVE 6000 – PC based motion controller including UniDrive6000, software, and PCI motion controller card	R-3276	\$3,400.00
Newport	URM80MS – Manual rotation stage with 80mm diameter stage, .001 degree angular resolution	R-3293	\$1,300.00
Newport	UTM100CC.1 – Single axis stage with 100mm travel and 0.1um resolution, DC servo drive	R-2560	\$2,500.00
Newport	UTM100CC/HL – Single axis stage with 100mm travel and 0.1um resolution	R-2620	\$2,500.00
Newport	UTM150CC1DD – Linear stages with 150mm travel and 20Kg load capacity	R-3277	\$2,000.00
Newport	UTM50CC – Linear translation stage with 50mm travel, DC motor drive	R-3511	\$1,750.00
Newport	UTM50CC 1HL – Linear translation stage with 50mm travel	R-3903	\$1,750.00
Newport	UZM80PP.1 – Vertical translation stage with 0.1u resolution	R-2432	\$2,500.00
Newport	VH3030-SP – 30"30"x 2" breadboard top with 1/4-20 holes 1"OC, pneumatic vibration isolation, casters	R-4041	\$2,100.00
Newport	X95 – Structural support fabricated of X95 extruded aluminum rails and connectors	R-3053	\$950.00
Newport	XYZ positioner – xyz positioner with vacuum base and micrometer adjustment	R-3049	\$1,400.00
Nicolet	Magna 550 series II – FTIR spectrometer with NIC Plan IR microscope	R-1362	\$17,500.00
Nicolet	NIC Plan – IR microscope for Nicolet FTIR spectrometers	R-2062	\$11,900.00
Nicolet/ Spectra-Tech	Continuum – IR/visible microscope with Spectra-Tech 15x ReflAchromat objective	R-2680	\$15,000.00
Nikon	CFI LU BD Epi Plan APO 150X – CF Plan, brightfield, darkfield, 150x, APO, NA 0.90, 0.40mm WD	R-4021	\$3,800.00
Nikon	Eclipse L150 – Brightfield, darkfield, DIC microscope with 6x6 stage and LU ELWD objectives	R-3727	\$13,500.00
Nikon	Eclipse L-200 – 200mm inspection microscope with BF, DF, and DIC observation	R-2787	\$21,500.00
Nikon	Eclipse L200, 860TMB – IC inspection microscope, 200mm loader with macro and backside inspection	R-4068	\$39,500.00
Nikon	ELWD 100x – 100x ELWD, 0.80NA, 2.0mm WD, 2.04mm FL	R-3516	\$3,500.00
Nikon	MM-11 – Measurescope with xy digital display	R-1881	\$7,500.00
Nikon	MM-11 – Measuring microscope with 2"x4" xy stage, 5x objective, camera port, and coaxial reflected light	R-2780	\$9,500.00
Nikon	MM-40 – Measuring microscope with reflected and transmitted light, brightfield, darkfield	R-4121	\$14,900.00
Nikon	MS-550 – Large panel inspection tool, max 23"x23" substrate, Nikon optics for BF,DF,DIC	R-3793	\$65,000.00
Nikon	NEXIV VMR 3020 – Video and vision based measuring	R-3823	\$45,000.00

ETS Products Catalog (as of January 07, 2011)

	system, 300mm x 200mm stage, Type 3 optical head 2–30x		
Nikon	NWL–641M – Wafer loader with macro–tilt, rotation, and flutter for 4"–6" wafers, base plate, 6x6 stage, adaptor	R–2987	Call
Nikon	NWL–851 – Automatic loader for 6"–8" wafers including base plate and microscope platform	R–2608	\$14,900.00
Nikon	NWL–851M – 200mm wafer loader with macro and micro inspection	R–1992	Call
Nikon	Optiphot 150 – Inspection microscope with programmable motorized 6x6 xy stage	R–2136	Call
Nikon	Optiphot 150 – Nomarski inspection, 6x6 xy stage with digital display, CCDcamera, x–hair gen, monitor	R–3348	Call
Nikon	Optiphot 150S – Reflected light microscope with brightfield, darkfield, Nomarski, 6x6 stage	R–2177	Call
Nikon	Optiphot 66 – Reflected light inspection microscope with 6x6 xy stage	R–2021	\$4,500.00
Nikon	Optiphot 66 – Transmitted and reflected light, binocular, 4 place nosepiece, 6x6 xy stage	R–3513	\$5,900.00
Nikon	Optistation V – Automated inspection station with Nikon Confocal BF/DF microscope, macro mode, 5"–8" wafer handling	R–3150	\$85,000.00
Nikon	Optistation VII – 300mm automated wafer inspection tool with FOUP loaders, robotic wafer handling, ULPA filtration	R–3919	Call
Nikon	SMZ–645 – 0.8–50x stereozoom with boom stand, 10x eyepieces, fluorescent illuminator	R–4057	\$1,550.00
Nikon	SMZ–U – Biomedical research stereozoom with transmitted and coaxial light and 10:1 zoom	R–3297	\$9,750.00
Nikon	UM–2 – 2x2 stage with Nikon 0–2" micrometers, trinocular viewing head, brightfield objectives	R–3709	\$12,900.00
Nikon	V12 – 12" screen, 20x lens	R–549	\$4,900.00
Nikon	V12A – 12" optical comparitor with 20/50/100x lenses and Metronics 3200 display	R–2131	\$7,900.00
Nikon	V12A – 12" optical comparitor with 5x, 20x, 50x lens turret, Nikon xy stage and digital display	R–2904	\$8,500.00
Nikon	XD–20 – Large substrate inspection station with programmable 16x16 stage.	R–2557	Call
Nikon	Y–IDP – New dual video port module for Nikon L200 Eclipse	R–2774	\$1,400.00
Nikon	Z Scope – Measuring microscope with Nikon optics, EXFO illuminator, BD/DF/DIC/FLuor., video system	R–3636	Call
Nippon	NA–62D – parallel gap, medium force weld head	R–815	\$1,250.00
NM Laser Products	LST400 – Process control shutter, 8mm aperture, up to 25W, safety interlock, cycling to 3Hz, 20ms switching	R–4129	\$350.00
Novapure	400–20 – Effluent gas scrubber with dual resin bed	R–1846	\$18,500.00
Noyes Instruments/ Alcoa	OPM4–4C – Digital meter with InGaAs detector, measurement range +25 to –50dBm	R–3088	\$450.00
NSK Precision	XY–HRS0132RS106/XYHRS050ZRH206	R–4076	Call

## ETS Products Catalog (as of January 07, 2011)

NTA Industries	1063C3 – Electropolished stainless steel, C frame table, 36"w x 30"d x 34"h, rod top	R-3079	\$700.00
Nu Vacuum Systems	Custom – Dual chamber vacuum laminator	R-3113	\$15,900.00
OAI	30-10 – Flood exposure tool with auto wafer handler, 500w Hg lamp, 365/400nm, ADE transfer robot	R-160	\$29,500.00
OAI	311 – Exposure meter with 4" or 6" sensor each with 9 point measurement	R-2703	\$2,900.00
OAI	354 – Single point 400nm exposure meter	R-2576	\$600.00
Ohashi	08-102 – Chip bonder with heated platten, dual cameras and monitors	R-3886	\$2,500.00
Ohaus	Galaxy 400 – top loading, 400g capacity	R-1395	\$600.00
Ohaus	TP400D – Top loading balance, dual range 400g x 0.01g/ 80g x 0.001g	R-3832	\$750.00
Olympus	AL100-L6 – Wafer loader with maximum 6" capacity	R-1899	\$11,500.00
Olympus	AL100-LMB6 – Automated wafer loader configured for 150mm wafers with Macro and Backside inspection	R-3871	\$18,500.00
Olympus	BH3MJL-LCD – Large area inspection microscope with Epi/Dia illumination and 16"x16" xy stage	R-2571	\$12,500.00
Olympus	BX51-TRF – Reflected and transmitted light, 5 brightfield objectives, trinocular head, 4x4 stage	R-3657	\$17,500.00
Olympus	BX-60F – Polarizing microscope with transmitted light, Bertrand lens, and infinity corrected optics	R-2807	\$15,900.00
Olympus	McBain Custom – XY measuring microscope with Z stand	R-1887	\$4,500.00
Olympus	MX-50A-F – Inspection microscope with 200mm stage, brightfield, darkfield	R-2809	\$21,900.00
Olympus	MX61-F – brightfield, darkfield, reflected light, 8x8 stage, optional Fluorescence	R-3634	\$32,500.00
Olympus	PM10-AD, PMCBAD – 3x4 polaroid back, adaptor, auto exposure body with controller	R-3443	\$975.00
Olympus	SZX9 – Research grade stereozoom microscope with 6:1 zoom and coaxial illumination	R-2644	\$6,500.00
Olympus	ULWD MS Plan 100 IR – Brightfield IR objective, 100x, ULWD, f=180, 0.80NA, type 100972	R-4128	Call
Omega	HHP-520 – digital pressure meter 0-19.99psig	R-1508	\$175.00
Omega	LHS-722A – Digital programmable hot plate	R-2382	\$475.00
Omega	OM503-F – Multi-trend data logger with 12 channels	R-3440	\$1,450.00
Omega	OM-550 – 4 channel programmable temperature recorder with inputs for Type J,K,T,E thermocouples	R-3490	\$350.00
Omega	Omnical 8A-110 – temperature calibrator	R-1509	\$1,200.00
Omega	TL-WELD – welds wires up to 1.1mm(0.043"), includes flow meter and regulator,	R-4162	\$1,550.00
Omegaline	600A – 6 channel recorder	R-1433	\$1,900.00
Optem	Optizoom cat. 27-70-03 – OptiZoom for Nikon microscopes with finite optics and 0.8x-2.0x	R-2902	\$850.00

ETS Products Catalog (as of January 07, 2011)

	magnification		
Optical Gaging Products	OQ-14A – 14" contour projector, 20x and 50x lenses, motorized stage with 8" travel, edge detector	R-3763	\$6,500.00
Optronics	CS-450 – camera with real time high resolution digital imaging	R-632	\$2,900.00
Optronics	DEI-750D – 3 CCD digital camera with 750 lines horizontal resolution	R-631	\$3,200.00
Optronics	LE-Digital – Digital video camera with 470lines, 1/2" interline transfer, C-mount	R-3058	\$2,750.00
Orec	03-dm-110 – ozone monitor	R-1325	\$2,800.00
Oriel	66056 – Housing with Ushio 100w USH-102D Hg lamp	R-2442	\$750.00
Oriel	68742 – 200w mercury lamp power supply with built in ignitor drive	R-2857	\$1,000.00
Oriel	68806, 60000 – 50-200w Hg arc lamp power supply, 60000 lamphouse for 30-250w lamp	R-3557	\$2,750.00
Oriel	68840 – Radiometric deuterium power supply, 200-850mA current output with preset	R-3497	\$1,100.00
Oriel	77101(I-1024) – Instaspec diode array detector 180-1100nm	R-579	\$525.00
Oriel	77501 – Radiometric broadband VIS-NIR fiber optic source	R-3127	\$1,100.00
Oriel	84360 – digital timer/integrator photofeedback	R-535	\$3,200.00
Oriel	8510-2	R-3576	\$850.00
Oriel	87301 – Deep UV lamp housing 220-260nm with 2"x2" beam size and 500w Hg-Xe lamp	R-2394	\$5,900.00
Oriel	87370, 68810, 84350 – Exposure source with 10"x10" lens, 200-500w Hg power supply, 68810 timer	R-3839	\$22,900.00
Orthodyne	20B – Ultrasonic large wire bonder for wire sizes 4 to 20mil	R-4020	\$7,500.00
Osaka	TG551B – New 550lps turbo pump with oil bearing	R-2166	\$9,500.00
Palomar Products	2470-V – Automatic wedge bonder	R-2361	\$24,900.00
Palomar Products	MLS-900	R-4012	Call
Palomar Products	MLS-900-F-125H-TC	R-4010	Call
Palomar Products	MLS-900-TC	R-4011	Call
Panasonic	GP-KS102 – microcamera	R-633	\$1,850.00
Panasonic	LQ-D5500 – digital video disk recorder	R-1888	\$3,500.00
Particle Measuring Systems	CLS-600 – corrosive liquid sampler	R-234	\$1,800.00
Particle Measuring Systems	Lasair 1001(12) – 0.1-2.0 microns, flow rate .012cfm	R-1850	\$4,900.00
Particle Measuring Systems	Lasair 1001(8) – Particle counter with 0.01 cfm flow, 0.1-2.0u range	R-2577	\$4,900.00
Particle Measuring Systems	Lasair 1002-BB(6) – 0.1-2.0 microns, .002 cfm flow	R-231	\$4,900.00

## ETS Products Catalog (as of January 07, 2011)

Particle Measuring Systems	Lasair 1002–BB(6) – 0.1–1.0 microns, flow rate .002cfm	R–2183	\$4,900.00
Particle Measuring Systems	Lasair 1004–(6)–NS – 0.1–2.0microns, flow rate 0.3cc/second	R–2185	\$3,500.00
Particle Measuring Systems	Lasair 110–(6) – 0.1–1.0microns, flow rate 1cfm aerosol particle counter	R–3786	\$4,900.00
Particle Measuring Systems	Lasair 210	R–3753	Call
Particle Measuring Systems	Lasair II 310 – Portable counter, 1cfm, 0.3–25 micron sensitivity, printer, color LCD display	R–3455	\$4,200.00
Particle Measuring Systems	Lasair II 310H – Portable counter, 1cfm, 0.3–25 micron sensitivity, printer, color LCD display	R–4137	\$4,200.00
Particle Measuring Systems	Lasair uLPC–1001 – 0.1–2.0 microns, 0.01cfm	R–1721	\$3,900.00
Particle Measuring Systems	Lasair uLPC–3001 – 0.3–1.0 microns, 0.01 cfm	R–1722	\$3,900.00
Particle Measuring Systems	SO2	R–3721	Call
Particle Measuring Systems	uLPC–1001	R–235	\$3,500.00
Particle Measuring Systems	uLPS–16/ CLS–600/IMOLV 0.2 – liquid particle counter for volumetric sampling	R–233	\$7,500.00
Particle Measuring Systems/ Siemens	2BH4 – 100 cfm vacuum pump for the AM–12 or AM–24 sampling manifolds	R–1723	\$450.00
PCB Piezotronics	Impulse Hammer – Impulse hammer, 086 B01 tip, 307A (sn 8031), 303 A03 (sn20360), 070 A03	R–3734	\$1,200.00
Perkin Elmer	– Hollow Cathode lamps for 5100PC	R–2044	\$175.00
Perkin Elmer	3110 – Dual beam spectrophotometer, high and low slit heights,	R–3371	\$7,500.00
Perkin Elmer	3B – UV–visible dual beam, scanning190–900nm	R–1368	\$950.00
Perkin Elmer	5100PC/ HGA–600/AS–60 – Dual beam spectrometer with HGA–600 dedicated Zeeman furnace and AS–40 autosampler.	R–1357	\$19,500.00
Perkin Elmer	AS60 – New unused in original packing computer controlled autosampler for HG–600 graphite furnace	R–2882	\$1,950.00
Perkin Elmer	DMA7e – Dynamic mechanical analyzer with 500C furnace, 8000mN/6500nM force range, .01–51hz frequency	R–3323	\$17,500.00
Perkin Elmer	HGA–400 – graphite furnace	R–1356	\$1,500.00
Perkin Elmer	System 2000	R–1363	\$6,500.00
Pfeiffer	TPH 270 – Type PM P01160/A541, 270 l/s	R–4116	Call
Pfeiffer Vacuum	DCU–200 – Display/control unit for Pfeiffer TMU–521 turbo drag pump	R–2300	\$1,000.00
Pfeiffer Vacuum	TCP 380 – Controller	R–3902	\$1,800.00
Pfeiffer Vacuum	TMH 1600P – Turbo pump with 1100l/s N2 pumping speed and DN200 ISO–K inlet	R–2892	Call

ETS Products Catalog (as of January 07, 2011)

Pfeiffer Vacuum	TMH 260 – 200l/s, Inlet DN 100 ISO–K, 2P	R–3901	\$3,900.00
Pfeiffer Vacuum	TMU 071P/ TC 100 – New unused, 60l/s turbo pump with TC–100 electronic drive unit, DN 63 CF–F, 3P, mod Nr. PM P02 981 C	R–4022	\$3,200.00
Pfeiffer Vacuum	TMU 1001P – 950l/s N2, input flange DN 200 CF–F, output flange DN 40 ISO–KF	R–3900	\$12,500.00
Pfeiffer Vacuum	TMU261 – Turbo drag pump with 210lps N2 pumping speed	R–2298	\$4,200.00
Pfeiffer Vacuum	TMU521 – Turbo drag pump with 300lps N2 pumping speed	R–2299	\$9,500.00
Pfeiffer Vacuum	TPH 170 – 170 lps, ISO inlet flange	R–3169	\$2,400.00
Pfeiffer Vacuum	TPH–330, TCP–300 – turbo pump	R–420	\$3,500.00
Pfeiffer Vacuum	TPU 060 – pumping speed 56lps N2, DN63CF inlet, with TCP121 drive unit and fan cooling option	R–3066	\$3,700.00
Pfeiffer Vacuum	TPU–330 – Type Pm P01 240 H574,	R–3119	\$6,500.00
Philips	Impulse 300 – Non destructive film thickness and uniformity on metal films	R–3481	Call
Philips	TREX 610T – TXRF spectrometer for measurement of metal contaminants on 4"–8" wafers using dual x–ray sources	R–3312	\$29,500.00
Photon Inc.	XYGE/10hz	R–3613	\$4,900.00
Photon Inc.	XYLA/LL – Large area dual axis scan head with Si detector for Vis/near IR, increased low light level response	R–3203	\$4,900.00
Photon Technology Inc.	TM–2/2003 – Fluorescence lifetime spectrometer with steady–state and phosphorescence add–on packages	R–2559	\$25,000.00
Photron	Fastcam Ultima 40k (Ultima SE) – Records up to 4500 frames/s or 40,500 partial frames/s, SCSI output for PC based motion analysis	R–3731	\$19,500.00
PI	C–844.40 – Multi axis precision motion controller with 4 axis control boards	R–2931	\$2,750.00
PI	E463.00 – HVPZT amplifier, 1500v, 3 channels, 5W	R–3343	\$1,975.00
PI	E501.00, E509.X1, E505.00, E515.0X – Modular PZT controller with LPVZT amp, servo controller, and 3 axis display	R–4044	\$4,500.00
PI	E501.10, E612.C0 – E501.10X chassis with (2) E612.C0 PZT servo controllers	R–4045	\$4,950.00
PI	F206.01/F–206B0001 – Hexalign 6–axis micromotion robot and alignment system	R–3185	\$14,900.00
PI	M–035.D01/M222.20 – DC–Motor driven precision tangent–arm rotation stage	R–3183	\$1,450.00
PI	M–044.D01 – 2 axis Tip/Tilt stage with DC motor drivers and sub–urad resolution	R–2929	\$2,500.00
PI	M511.DBX – single axis XY linear stage with 4" travel, DC motor direct drive, and 0.1um linear encoder	R–2926	\$3,900.00
PI	M511.DBX(2), M521DBX – Three axis XYZ linear stage with 4" travel, DC motor direct drive, and 0.1um linear encoder	R–2927	\$11,900.00

ETS Products Catalog (as of January 07, 2011)

PI	M511.DBX(3) – 3 axis XYZ linear stage including (3) M511.DBX linear stages with 4" travel	R-3930	\$11,900.00
PI	P-621.2CD – XY piezo nanopositioning stage, 100um x 100um xy open loop travel	R-4043	Call
PI	P720.00 – PIFOC scanner for small objectives, 100u travel, 0.5 nm resolution,	R-4127	\$1,450.00
PKG Equipment	custom – Megasonic cleaner for maximum 200mm wafers	R-2167	\$12,500.00
Plasma-Finish GmbH	V55G – Microwave plasma cleaner with aluminum chamber, 2.45 Ghz power supply, 3 gas inputs	R-2811	\$37,000.00
Plasmatherm	790-10-RIE – RIE tool with CH-11 electrode and turbopumped main chamber	R-2525	\$129,500.00
Plasmos	SD2000 – Automatic mapping ellipsometer with scanning stage	R-1874	\$19,500.00
Plasmos	SD2000 – Mapping ellipsometer with 632.8nm microspot, motorized xy stage, and autofocus	R-3624	\$24,500.00
Polaris	Accuweld5100 – AC resistance welding system with stainless glove box	R-3894	\$12,500.00
Polytec	OFV-039-HDD – Tip tilt fixture on theta rotation base for laser doppler vibrometer measurements	R-2303	\$1,950.00
Polytec	OFV-070 – Microscope adaptor for vibrometer beam	R-2302	\$8,500.00
Polytec	OFV-3000/OFV-502 – Differential fiber vibrometer	R-2217	\$16,500.00
Polytec	OFV-3001/OFV-512 – Vibrometer controller	R-2305	\$24,000.00
Polytec	PSV-200, OFV-055 – Scanning vibrometer includes OFV3001SF vibrometer controller, OFV 055 laser scanning head	R-3191	\$16,500.00
Power Technology	PFS-310 – Single mode fiber splicer	R-2992	\$1,500.00
PPL	3012-05 – XYZ coordinate video based measuring tool with 12"x8"x8" XYZ travel	R-2314	\$18,500.00
PRI/ Equipe Technologies	ATM205-1-S, ESC-200 – Atmospheric single arm wafer handling robot with 10" Z travel including ESC-200 controller	R-3231	\$12,500.00
Prior Scientific	500-HR05SPN, H129V4, CS152V2, CS152KB – Motorized scanning stage for Nikon 641 wafer loader	R-3729	\$14,500.00
Prior Scientific	H101E600 – xy motorized stage with 3x4 travel, controller, joystick	R-4050	\$6,500.00
Prior Scientific	HR05/5, CS152KB, H129V4 – Motorized XY 6x6 shuttle stage for interface with Nikon wafer loader	R-4051	\$14,500.00
Prior Scientific	HR05/5H128PNU4/ H152KB – Motorized stage configured to interface with Olympus wafer loader, includes controller and joystick	R-3046	\$14,900.00
Probing Solutions	400LS-US-V0 – Manual prober with 200mm wafer chuck, xy precision coaxial leadscrew stage with 1um resolution	R-3175	\$12,900.00
Probing Solutions	WM42 – mask inspection station with birghtfield/darkfield illumination and 6x6 stage	R-449	\$5,900.00
Probotech	P11-LX6x9 – Dual sided flying microcircuit prober for substrate 6.6" square x .04" thick	R-2466	\$21,500.00

ETS Products Catalog (as of January 07, 2011)

Process & Cryogenic Services	Gas Cabinet #23 – HCl 1 bottle cabinet	R-1664	Call
Process & Cryogenic Services	Gas cabinet #38 – Hydrogen Bromide 2 bottle cabinet	R-1671	\$2,500.00
Process & Cryogenic Services	Gas cabinet #Leaker – 1 bottle cabinet without panels	R-1669	Call
Prometrix	FT-700 – mapping system patterned wafer	R-514	\$14,900.00
Pulsefeeder	680-S-E – metering pump diaphragm, 0.7gal/min, 630psi	R-1494	\$1,500.00
Pyrometer Instrument Company	Pyro Micro-Optical Pyrometer – Brand new unused with case, analog display meter, filter set, tripod mount, and power supply	R-4018	\$2,900.00
Q Panel	Q-Sun /3000 – Xenon test chamber for accelerated weathering	R-3985	\$18,000.00
Quantum Logic	QL3500C-1B/S50 – Microcomputer controlled pyrometer, 0.90 microns, 1100-1300C	R-3077	\$2,150.00
Quintel	Q2001CT/Q4000 – This aligner is used to expose photoresist-coated silicon wafers to 365 nm UV light. The typical pow	R-3989	\$34,900.00
Radiant Technology Corp	PR-1530AR – radiometer/ spot photometer with MS-55 macrospectar lens	R-581	\$7,900.00
RAM Optical	RamScope – Z stand with multilevel focus, Olympus BF/DF/DIC Neo S Plan objectives, Seprex 200mm motorized stage	R-3807	Call
RAM Optical/Newport	1100 – Electronic video crosshair generator	R-2240	\$975.00
RAM Optical/Newport	OMIS II 6x9 – Video based measurement and inspection tool	R-2207	\$21,500.00
Rame-Hart	100-00-115 NRL-C.A. – Manual goniometer with viewing eyepiece, 20" rail, and syringe dispenser	R-3143	\$4,500.00
Rame-Hart	100-22-100 – Automated dispensing system, software driven, creates single or dynamic drops	R-3828	\$1,650.00
Ransco	7207-1 – Vertical 2 zone temperature cycling chamber	R-2296	\$16,500.00
RD Automation	CB5 – Automatic flip chip aligner/ bonder with 5u placement accuracy and vision system	R-2031	\$15,000.00
RECIF SA	IDLW8 – Lot and Wafer ID reader configured for 200mm wafers	R-3228	\$8,500.00
RE'EM Electronics Ltd (Microassembly Technologies Ltd)	6497 – Semiautomatic die bonder for flip chip applications with 25u placement accuracy	R-2106	\$21,500.00
Reichert	Abbe Mark II – Digital refractometer	R-2427	\$2,800.00
Reichert	Polylite 88 – Brightfield, darkfield, DIC, 8x8 xy stage, Plan Flour 5x/10x/50x LWD,100x LWD,Plan Apo 150x	R-4168	\$17,500.00
Retsch	BBO – laboratory jaw crusher, maximum sample particle size 40mm, 0-10mm adjustable discharge slit, 220v	R-1486	\$5,500.00
Retsch	RMO – Mortar grinder	R-1489	\$6,500.00
Retsch	ZM-1 – centrifugal mill for soft, medium hard, and brittle materials,	R-1487	\$3,900.00

## ETS Products Catalog (as of January 07, 2011)

Revco	REL-2304A14 – Upright 23.3cuft, interior 29x24x58, factor preset 4C, forced air circulation, 115v	R-3911	\$2,600.00
Revco	ULT-1340-3/A4013U12 (VWRcatno.) – Value Series -40C freezer with 5 shelves and internal doors, 50.5h x 19.5F-Bx23.5w	R-3994	\$3,600.00
Revco	ULT2140-5-D30 – Elite series upright freezer, -10C to -40C, 20.2cuft, interior 50.5h x 28.5w x 24.25d, 208v	R-3980	\$3,600.00
Revco	ULT-350-5-AUA – -40C Chest type, 3.1cuft, 17x17x19w, 110v	R-3993	\$3,400.00
RF Power Products	LF10 – 10KW, 50-460Khz, 208v/ 1 phase, 50/60hz	R-3477	Call
RF Power Products	LF-5WC – 500watts, 50-460khz, water cooled, 208v	R-3468	\$1,800.00
Rigaku	GXR2 – Grazing incidence X-ray reflectometer	R-1872	Call
Rippey Corp	Smart DI – Ultrapure DI water heating system	R-1924	\$1,950.00
RMS Systems/ Hologenix	NGS 3500 – Advanced dimensional metrology and defect detection system for parts/wafers up to 200mm	R-3781	Call
Royce	550 – Die shear tool with load cell and B&L 4 microscope	R-3022	\$7,500.00
Royce	552 – Multi function tester configured with 2Kg die shear module	R-3517	\$12,900.00
Royce	MP-3 – XY-theta manipulator stage for wire pull and bond shear up to 500gr	R-3514	\$1,850.00
Rucker & Kolls	680A – Semiautomatic prober with 6" vacuum chuck	R-1982	\$12,900.00
Rucker & Kolls	681A – semiautomatic prober with B&L 5 microscope and 6" Ni plated vacuum chuck	R-466	\$8,900.00
Rudolph	EL 3, SS292 – Ellipsometer with automatic scanning stage	R-3694	\$19,500.00
Saes Pure Gas	Monotor PS3SP2R1 – 5liters/min Ar	R-3829	Call
Saes Pure Gas	PS4-MT50-H – Hydrogen gas purifier with H2 sensor, UPS, MODBUS com port	R-2994	\$21,500.00
Samco	PD-200D – DLC deposition and etching tool	R-1871	\$59,000.00
Samco	UV-660 – UV ozone stripper, cleaner,	R-2476	\$16,500.00
Sartorius	12000D	R-1400	\$975.00
Sartorius	4503 MP6 – 4g capacity x 0.001mg (1ug)	R-3748	\$3,750.00
Sartorius	MC5 – microanalytical balance, capacity 5.1g, readability 1ug	R-3859	\$8,500.00
Sartorius	PT1200-00V1	R-3815	Call
Savant Group	TBR (Tannas Basic Rotary) – Tannas rotary viscometer for analysis of lubricants	R-3528	\$5,900.00
SC Fluids	MEMS Dryer – Supercritical CO2 MEMS dryer for single wafer drying	R-3290	\$34,900.00
Schott-Fostec	KL1500 LCD – 150w light source with LCD display of bulb temperature	R-2256	\$750.00
Scientech	365 – power meter	R-1464	\$975.00
Scientific	autospot 3061 – toxic gas detector	R-1321	\$1,200.00

ETS Products Catalog (as of January 07, 2011)

Scientific Sealing Technology	HVWB-2200-HYD – Programmable high vacuum anodic wafer bonder for MEMS,,silicon to glass, & sensor apps	R-3325	\$39,500.00
Scott	Omnigas – 3 bottle cabinet with purge panels	R-1642	\$16,000.00
SDL	FL20-4211-002 – 800-1200nm Infrared fiber laser with output fiber, collimating optics, and FL20-4211 diagnostic unit	R-3551	Call
SEC	4400 – Removes rejected epoxy bonded die	R-2108	\$1,500.00
SEC	KTM-83A – Semiautomatic pick and place with die ejector probe stage, cross hair alignment system, and B&L pod	R-2990	\$8,500.00
SEC	KTM83B – Manual pick and place to transfer die from trays to device	R-2103	\$4,800.00
SEC	KTM83B/4800 – manual pick and place to transfer die from wafer tape to device surface	R-2102	\$5,950.00
Secac	Atlas T25 – Programmable 25 Ton hydraulic press for XRF and IR sample preparation	R-3535	\$6,200.00
SELA LTd./ Camtek Ltd.	MC-500 – Fully automatic micro cleaving tool for wafers using method of scribe and cleave, Olympus microscope	R-4078	\$75,000.00
SELA LTd./ Camtek Ltd.	MC-600 – Fully automatic cross section/micro cleaving tool for wafer fault analysis or process monitoring	R-3519	\$119,500.00
Semiconductor Diagnostics Inc.	MC/PDM/SPV 3030-P – plasma damage monitor for 200mm wafers	R-1744	\$23,500.00
Semiconductor Technologies	Dolphin – megasonic cleaner configured for maximum 6" wafers	R-218	\$9,500.00
SemiTest	SCA-2500 – Real time surface charge analyzer	R-2092	\$24,500.00
Semitool	240F – Spin rinser dryer for 2"-4" wafers, PSC-101 digital controller	R-3318	\$5,500.00
Semitool	270S – Spin dryer with 150mm rotor, floor stand, resistivity monitor, static eliminator	R-2389	\$7,900.00
Semitool	840S – Dual stack SRD for 100mm wafers	R-1866	\$14,500.00
Semitool	870S – Dual spin rinser dryers with new S style cabinet and PSC-101 controllers	R-258	\$16,500.00
Semitool	870S – Dual stack spin rinser dryer with PSC-102 controllers	R-2235	\$16,000.00
Semix Tazmo	TR-6133U – SOG coater configured for 150mm wafers with 3 hot plates and U track configuration	R-176	\$35,000.00
Semprex	12-9068.20 – 1 micron accuracy X axis, .025 degree accuracy theta, digital display with RS-232, reflected light	R-1715	Call
Semprex	12-9248.00 – 1 micron, 0.025 degree, manual y axis, motorized x and theta	R-3723	Call
Semprex	KDL-66 – Motorized X-theta stage with 5 micron resolution encoders	R-1716	\$7,450.00
Shimadzu	AGS-500A – 500kg capacity, (1100lbs), load cell	R-1594	\$8,500.00
Shimadzu	RF-5000 – fluorescence scanning 200-700nm	R-1370	\$4,200.00
Shimadzu	UV-1601 – uv-visible spectrophotometer with	R-3924	\$4,200.00

ETS Products Catalog (as of January 07, 2011)

	190–1100nm range, external printer		
Shimadzu	UV-3600 – UV-VIS-NIR, 185nm–3,300nm(1.3u), MPC-3100 large sample compartment	R-4090	\$42,500.00
Shrader	150mm – 6" aluminum target	R-4098	Call
Shrader	Custom	R-1733	\$5,500.00
Shrader	SSIF-100 – inlet filter	R-415	\$425.00
Shrader	SSIF-250 – inlet filter	R-416	\$550.00
SHS	SHS1200 – RIE etcher with 12" bottom electrode, 600 watts @13.56Mhz, 4 gas inputs, Edwards E2M40	R-2392	\$34,900.00
Sierra Instruments	903C-PS-BM-11/ 741-ST – Thermal mass flow meter with digital display of 0-50SCFM	R-2011	\$1,500.00
Signatone	Custom – 20"w x 19"d x 20"h	R-3102	\$350.00
Signatone	S463	R-4126	\$14,900.00
Signatone	S-926-PLV/ S-926-PRV – Analytical micropositioner with vacuum hold down, pivot head, and 100TPI	R-3298	\$700.00
Signatone	XXC5S-A70ELA – Semiautomatic prober with 200mm vacuum chuck, Rf and light shield, temperature chuck	R-2995	\$29,500.00
Signatone	XXC5TS-NOV – 200mm semiautomatic prober with SA-Zoom microscope, Kinetic Systems isolation table, GUI interface	R-3000	\$17,500.00
Simco	Aerostat XC – Benchtop deionizer with heater and 3 fan speeds	R-4079	\$350.00
Simco	D167QG – Includes air gun and HV power supply for blow off of static elimination from surfaces	R-3947	\$375.00
Simco	H-164G – Includes air gun and HV power supply for blow off static elimination from surfaces	R-239	\$250.00
Sloan	Dektak 1A – Thin film profiler with recorder and leveling module	R-2089	\$6,500.00
Solid State Measurements	SSM 490i – Automatic mercury probe mapping tool, wafer capability up to 200mm, ProCap v6.10	R-3831	\$39,000.00
Solomat	Solomat 2000 – Multipurpose meter for pressure, temperature, Rh, RPM, air velocity	R-2002	\$1,800.00
Soltec	1241 – 1 channel strip chart recorder	R-1434	\$950.00
Soltec	1242 – 2 channel strip chart recorder	R-1435	\$1,200.00
Soltec	DS-8606 – strip chart recorder, 6 continuous channel,	R-1436	\$2,500.00
SONIX	HS1000 – Hi speed, Hi resolution scanner with SAM enclosure and 15"x12" scan area	R-4053	\$29,500.00
Sonoscan	FACTS 2 C-SAM – Automated acoustic imaging of parts loaded in JEDEC trays, Waterfall transducer, Time Domain Imaging	R-3771	\$89,500.00
Sonotek	PS55 – PS88 with atomizer nozzle, interface cables, unused	R-3944	\$3,500.00
Sony	CAST DH-2/UBM, NJ23	R-3470	\$5,500.00
Sony	DXC-390 – 3 CCD color camera with C-mount and 800TV lines horizontal resolution	R-2413	\$1,850.00

## ETS Products Catalog (as of January 07, 2011)

Sony	DXC-750MD – 3 CCD color camera	R-636	\$1,250.00
Sony	DXC-930 – 3 CCD color camera with bayonet mount	R-3226	\$2,300.00
Sony	DXC-950 – 3 chip camera with 1/2" CCD's	R-3306	\$1,200.00
Sony	DXC-970MD – 3 CCD color camera with 750 horizontal lines	R-639	\$1,700.00
Sony	PVM-1354Q – Trinitron monitor, with 600 lines	R-640	\$1,100.00
Sony	UP-2100 – New color video printer with Y/C and composite video inputs	R-2584	\$1,200.00
Sony	UP-2900MD – Color video printer	R-2306	\$1,500.00
Sony	UP-5600MDU – color video printer	R-641	\$1,800.00
Sony	UP-811 – B&W video printer	R-634	\$850.00
South Bay Technology	350 – abrasive slurry drill	R-1482	\$1,250.00
Space Electronics	KR02A/D5000 – Moment of inertia instrument with 0.2lb payload range	R-2190	\$9,500.00
Spectra Diode Labs	SDL800 – Diode laser driver, 110/240v	R-3403	\$2,950.00
SSEC	2300 – Parallel seam sealer for welding or soldering in linear or rotary mode, with power supply	R-3186	\$17,500.00
SSEC	2300 Auto – Parallel seam sealer with vacuum oven, dry vacuum pump, interchange box, & PC Windows controller	R-3515	Call
SSEC	300ML – Evergreen Series III mask cleaner with brush	R-2164	\$49,000.00
SSEC	300ML – Evergreen Series III mask cleaner with brush and megasonic spray	R-2356	\$65,000.00
SSEC	M200 – Brush scrubber with dual dispense arms	R-2060	\$9,500.00
Stanford Research Systems	SR510 – Single phase Lock-In amplifier	R-2056	\$1,600.00
Static Prevention Inc.	Linear Ionizer – Linear ionizers (2)	R-3937	\$425.00
STEC	SEC-4400SC – 100SCCM/ N2	R-3563	\$300.00
Stokes	540 – 40cfm dry pump	R-1654	\$3,500.00
Superior Electronics	AFPP-500 – Automatic resistivity mapping tool with 200mm vacuum chuck	R-2082	\$16,500.00
Suruga Seiki	B54-40L – Manual goniometer with +/-15 degrees rotation and 0.1degree angular resolution	R-3319	\$275.00
suruga seiki	BS11-40D – 3x BS11-40D linear stages in XYZ configuration with differential micrometers	R-4061	\$2,150.00
Suss MicroTec	MA150 – Mask alignment and exposure tool for wafer up to 150mm, rebuilt by Suss Microtec 2000	R-3314	Call
Suss MicroTec	MA6 Bond Tooling – Mask aligner tooling including mask holder with quartz window and wafer chuck	R-3219	\$10,000.00
Suss MicroTec	PA 200 – Vision system for high speed probing of non-planar devices	R-461	Call
Suss MicroTec	PA 200 – 200mm prober/ laser trim with NewWave Quicklaze 532nm laser, A-Zoom, Proberbench	R-3445	\$75,000.00

## ETS Products Catalog (as of January 07, 2011)

	software, dark box		
Suss MicroTec	PH150 – Submicron positioner has X, Y and Z linear travel with 10 mm range on X and Y axes	R-480	\$1,950.00
Suss MicroTec	PH400 – Submicron positioner with resolution below 0.2micron and vacuum base	R-2806	\$4,200.00
Suss MicroTec	RC8 MS3 – 200mm spin coater with GYRSET system, stainless base cabinet, and 1 Cybor pumps	R-2350	\$32,000.00
Suss MicroTec	RC8 MS3 – 200mm spin coater with GYRSET system, stainless base cabinet, and 1 Cybor pumps	R-2376	\$32,000.00
Suss/MFI	Vibsense – Environmental measurement and monitoring system	R-3929	\$4,500.00
Sycon Instruments	STC-200 – Thin film deposition rate controller	R-1815	\$1,950.00
TA Instruments	903-H – high temp moisture evolution analyzer	R-1541	\$5,500.00
TA Instruments	CSL500	R-1941	Call
TA Instruments	SDT2960 – Simultaneous DGA-DTA for thermal analysis	R-2475	\$16,500.00
Taber Industries	5155 – Rotary platform abraser for accelerated wear testing	R-4146	\$7,500.00
Taber Industries	5750 – Linear abraser for contoured surface testing	R-4147	\$4,900.00
TECA	AHP-301CP – Thermoelectric cooled cold plate with -10 to 70C range	R-2383	\$550.00
Teca Thermoelectric Cooling America Corp	TLC-700 – Compact benchtop thermoelectric chiller, 215w @0C, Ambient to +50C, PID temp control	R-3791	\$1,975.00
Techne	TE-10D – New Stainless bath and recirculator with digital display and low level sensor	R-3811	\$1,000.00
Technical Instrument	TI Z stand#1 – Z stand with motorized xy stage and Leitz optis	R-455	Call
Technical Instrument	TI Z stand#3 – Z stand with motorized xy stage and Leitz optics	R-454	Call
TechnoOrg Linda	IV5 Gentle Mill – Low energy ion mill, 100 –2000eV, Pfeiffer turbo pumped, milling angle 0-45 degrees, PC control	R-4144	\$49,000.00
Tegal	915 – Batch etcher with ENI 1000w 13.56mhz generator, 2 gas inputs, D30AC vacuum pump	R-2661	\$35,000.00
Tek Temp	TKD-100/8200 – Air cooled, 5-35C, stability 1C, 2.5gal reservoir, 4.6gpm	R-4047	\$3,600.00
Tektronix	HC01 – Black & white thermal video printer	R-2276	\$850.00
Teledyne	356WAMX – 0-1/10/100 ppm, includes new electrochemical cell	R-1337	\$3,200.00
Teledyne	P-53 – semiautomatic prober, 6" vacuum chuck	R-471	\$14,000.00
Temptronics	SA76440 – Thermochuck air dryer used to prevent condensation	R-3104	\$2,700.00
Temptronics	TPO3000A-2300-1	R-3588	\$7,500.00
Tenney	JR – 16x11x12 chamber, -70C to 170C, LN2 boost option, 24hr. Honeywell circular chart recorder	R-4049	\$5,500.00
Tenney	T20 C-3 – 20cuft, chamber 30w x 32d x 36h, -73C to	R-4060	\$11,500.00

## ETS Products Catalog (as of January 07, 2011)

	+200C, 2x1.5hp compressors, 208v		
Terra Universal	1580-00 – 21 3/4 x18 1/4 x 3" stainless steel vibration isolation platform	R-3857	\$975.00
Terra Universal	1600-51-01/1600-54 – purge control, dual, 0-60psi	R-662	\$825.00
Terra Universal	1600-53 – 4 channel gas distribution box	R-664	\$350.00
Terra Universal	2003-01 – ionizing power supply	R-663	\$250.00
Terra Universal	3650-36 Adjust-A-Shelf – 10 chamber dessicator, overall dims 45"w x 24"d x 60"h, acrylic with 304 SS door frames, floor stand	R-4167	\$3,900.00
Terra Universal	9500-00 NitroWatch – Humidity controller, requires sensor (not included)	R-4066	\$500.00
Terra Universal	9906-22 Series 200 – Series 200 3 chamber dessicator with stainless stand and casters	R-4059	\$5,725.00
Terra Universal	Series 300 – Series 300 dual port glovebox with right hand antechamber and vacuum oven	R-4073	\$2,900.00
Terra Universal	various – Stainless steel clean room tables– various sizes	R-3060	Call
Testing Machines Inc. Buchel BV	Bekk – smoothness testing instrument using the Bekk method	R-3561	\$4,900.00
Thales Optem	Telecentric Zoom 100 – Telecentric zoom 100 optical system	R-3461	\$6,500.00
Thermal Care	Accuchiller AQ0A0102X – Dual loop chiller, 30-60F range, air cooled, 1hp compressor, 1/4hp recirculating pump, 208v/1ph	R-3806	\$3,500.00
Thermawave	OP 5300P – 300mm film metrology tool with multiple measurement techniques: BPR, BPE, AE, RCSE, BB	R-3381	\$49,500.00
Thermo Electron	CFT-33 – 3240 BTU/hr, 5-30C, PD-2 pump, air cooled, digital temperature display	R-3667	\$3,100.00
Thermo Fisher Scientific	Genesis 10UV – catno.335-907, dual beam,190-1100nm range, USB connectivity	R-4161	\$2,275.00
Thermo Neslab	Merlin M100 – -15 to 35C, 15 liters/min, 0.1/1.0C resolution, 208-230v/1, CFC free	R-4176	\$4,950.00
Thermo Neslab	RTE-740 – -40 to 200C, 1.9gal reservoir, digital display, 110v	R-3809	\$2,950.00
Thermo Nicolet	FT RAMAN 960-ESP – FT-RAMAN instrument with diode pumped 1064nm solid state laser, Ge LN2 cooled detector	R-3537	\$42,000.00
Thermonics	T2500S-85 – Precision temperature forcing system, 18cfm flow rate, 1.5m output hose, temp range -85C to 225C	R-4000	\$12,500.00
Thermoseparations	0206-0102-21 (SP 206) – programmable scanning uv-vis diode array det	R-1348	\$2,500.00
Thorlabs	590250-2448-21 – 2' x 4' x 2" breadboard	R-2528	\$750.00
Thorlabs	590250-3648-21 – 3'x4'x2" breadboard	R-2533	\$950.00
Thorlabs	590250-3660-21 – 3' x 5' x 2" breadboard	R-2529	\$1,200.00
Thorlabs	GM-200 – Gimbal mirror mount with 2" mirror and post	R-1949	\$275.00

## ETS Products Catalog (as of January 07, 2011)

Thorlabs	MDT616 – 3 axis flexure stage with 2mm xyz travel, >0.3u sensitivity for micromanipulation	R-3384	\$975.00
Thorlabs	MDT616, SDL 5432 – XYZ flexure stage, 2mm travel/axis, SDL diode laser 830nm/200mw	R-4067	\$1,500.00
Thorlabs	PT-102 – angle bracket	R-4083	\$50.00
TMC	63-1878101 – Micro g isolation table, 41x30 stainless top	R-3838	\$2,500.00
TMC	63-27-99001 – electropolished stainless table, air isolation, 30x47 surface with 2 x 2" holes	R-3896	\$3,500.00
TMC	63-631 – Class One 35"x30"x30"h electropolished stainless vibration isolation table for clean room applicati	R-3221	\$2,950.00
TMC	63-671 – 60"x36" Class 1, stainless steel	R-2274	\$3,600.00
TMC	77-115-02R – CleanTop II, 24"x36" x2" breadboard, holes 1"OC,	R-4153	\$650.00
TMC	77-136-02R – Cleantop II series, 3'x5'x2" breadboard	R-2532	\$1,100.00
TMC	784-447-02EGR – 48"x48" CleanTop II optical table with 4 post isolated support system	R-2182	\$4,350.00
TMC	Cleantop II, 14-41H-34 – 6'x4'x8" CleanTop II isolation table with stand	R-2732	\$4,900.00
TMC	Micro-g – ClassOne 38"x30" stainless steel isolation table	R-1999	\$2,950.00
TMC	Micro-g 63-543 – Vibration isolation table with 47"x30" stainless top	R-2134	\$2,250.00
TMC	Microg 63-671 – Stainless steel vibratin isolation table with 36"x60" work surface	R-2616	\$3,500.00
TOA Electronics	AM-271A	R-3846	\$1,200.00
Tomita Engineering	TOM-100 – Peristaltic type precision dispenser with handheld needle	R-792	\$1,100.00
Topometrix	Accurex II – Atomic force microscope with Accurex II SPM scan head, 100u scanner, optical microscope with camera	R-2437	\$25,000.00
Transducer Techniques	GSO-250 – 250gram tension/compression load sensor	R-2205	\$575.00
Transducer Techniques	RTS-25 – Reaction torque sensor, 25 in-oz	R-2204	\$800.00
Trebor	Quantum series 30Kw – 30kw ultra high purity DI water heater	R-4082	\$25,000.00
Trio Tech	Arctic 60 – Individual IC characterization using thermoelectric cooling and heating	R-2914	\$7,900.00
Trio Tech	Arctic TC4600RS – 6" high temperature chuck with rapid cooldown	R-1804	\$14,000.00
Trio Tech	Arctic TC4600RS – 6" high temperature chuck with rapid cooldown	R-1805	\$14,000.00
Trio Tech	G-203A/G233F – 1 gallon capacity gross leak bubble tester with digital temp display, magnifier, filtration acces.	R-2991	\$4,200.00
Trio Tech	G233-F – filter/ recirculating pump	R-743	\$1,200.00
Trio Tech	G254-A/G-233F/G-245/G-236 – Bubble tester with 2.5	R-2710	\$7,500.00

ETS Products Catalog (as of January 07, 2011)

	gallon capacity includes filtration unit		
Trioptics	D100 – Precision tilt table with rotation for measurement of wedges, deflection angles, plane parallel plat	R-2750	\$1,400.00
Tropel	122879 – Optical reference flat-100mm diameter	R-2831	Call
Tropel	8225-B – 150mm diameter wafer chuck for 2"-6" wafers	R-2833	Call
Tropel	8240-FSI – 100mm diameter wafer chuck	R-2832	Call
TSK	– Digital time and temp	R-1840	\$1,500.00
Tumi	custom – Transportable clean storage with active HEPA filtration and back up power supply	R-2899	\$2,800.00
Tylan	FC-260 – 20 SCCM, 50 SCCM	R-3567	\$200.00
Tylan General	CMH-11V, CMH4-M11V – Capacitance manometer, 1-1torr, 0-10torr, or 0-1000mtorr	R-3038	\$475.00
Tylan General	FM3911V – N2, 30 SLPM	R-4163	Call
Tylan General	FM3926V-J – N2, 1000SLPM	R-4164	Call
Ultra-T	FSC-132 – Spray cleaner for large substrates with IR lamp, auto-lid opener and programmer	R-2570	\$19,500.00
Ultra-T	PSC 122M – Photomask and substrate submicron cleaner	R-2270	\$23,900.00
Ultra-T	SWC 111M – Sawed/scribed wafer high pressure wafer cleaner	R-1876	\$19,500.00
Ultratech	504 – Positive resist develop/rinse station for wafers and photomasks	R-181	\$6,500.00
Ultron	UH-101C – UV curing system for 200mm wafers	R-2284	\$9,500.00
Ulvac	Heliot 307 – Dry leak detector with turbopump and scroll backing pump	R-2686	\$18,500.00
Unit Instruments	Unit Custom – Bank of 8 Unit mass flow controllers with valves and bypass loops	R-3100	\$9,500.00
Unitek	MP3 – Wire pull tester, destruct/nondestruct modes range 0-0.9/0-99.9g, Catno. 6-095-06	R-3591	\$3,900.00
Unitek	Phasemaster IV (PM4B) – cat no. 1-231-03,	R-3971	\$2,350.00
Unitek	X2/230 AC – welding transformer	R-823	\$600.00
Unitek Miyachi	250DP/115, 80F – microprocessor controlled 250ws dual pulse stored energy power supply	R-3260	\$5,750.00
Unitek Miyachi	Unibond II – cat no. 1-191-02 bonds fine wire or thin ribbon to substrates, constant voltage or voltage plus cur	R-3341	\$4,250.00
Unitron	15159 – comparison/alignment microscope	R-612	\$3,500.00
Unknown	Custom – dessicator dims: 24"w x 16"h x 24"d , 3 stainless dessicators with floor stand	R-4165	\$3,200.00
US Filter Corp	UHP-10, 42-240-BN – Reverse osmosis and DI water treatment system with Aquafine UV sterilizer	R-3683	\$27,500.00
Uthe	10G	R-2065	\$650.00
UTI	QT MKIII	R-2623	Call
UV Source Inc.	Greenspot – UV spot cure with digital timer and	R-2312	\$1,950.00

ETS Products Catalog (as of January 07, 2011)

	footswitch		
UVEXS	16338/14092 – Belt curing oven with 12" belt	R-2213	\$8,500.00
Vacuubrand	MD4 – Oil free dual viton diaphragm pump with 2.3cfm	R-2629	\$1,850.00
Vacuubrand	MZ 2C – 1.2cfm@60hz, dual cylinder, ultimate vacuum 9mbar, 120v	R-3051	\$1,250.00
Vacuubrand	RP8B30/ MD8C – Roots blower pumping system, base pressure 2x10 <sup>-1</sup> mbar, pumping speed 30m <sup>3</sup> /hr (17.6cfm)@208v, MD8C	R-3960	\$6,500.00
Vacuum General	80-6/CM-01-10 – capacitance manometer	R-305	\$950.00
Vacuum General	AC-2, MCVS060 – AC-2 power supply, ACR-28 valve controller	R-3062	\$3,200.00
Vacuum Generators Ltd.	MD6 – Right angle variable leak valve with conflat flanges	R-3044	\$500.00
Valco Vici	Valco Vici valve – HPLC valve	R-1349	\$475.00
Valley Precision	MultiMeasure II – Z stand with multilevel focus, Zeiss microscope, Metronics Quadracheck 2000 xy display	R-3601	Call
Valley Precision	MultiMeasure II – 3 axis measurement system with Olympus microscope, 4x4 travel XY stage, Mitutoyo long objectives	R-3578	Call
Valley Precision	Multi-Measure II – High precision Z stand with course and fine focus	R-3487	\$4,200.00
Varian	936-40 – Portable Trapless leak detector capable of detecting leaks as small as 10 <sup>-10</sup> cc/sec	R-2238	\$6,500.00
Varian	956D – portable leak detector	R-319	\$21,900.00
Varian	L6280-302 – Aluminum right angle block valve, NW25, stainless steel bellows	R-3006	\$125.00
Varian	L6281-303 – Aluminum right angle block valve, air operated, NW40	R-3005	\$200.00
Varian	Multigauge – Multigauge controller configured for multiple TC's and Bayard-Alpert gauge	R-2575	\$1,500.00
Varian	Unknown – Ion pump with cables	R-3599	\$800.00
Varian	V450A – 470lps turbo pump with ISO 160 flange and power supply	R-3007	\$4,500.00
Varian	V550 – 550lps N2, ISO 160 inlet, inlet screen, 969-9544 controller and cable	R-4074	\$5,500.00
Varian	V60 – New pump, cat no.969-9002 with 4.5" CFF, pumping speed 65 l/s N2	R-3386	\$1,900.00
Varian	V70LP Macro Torr – Macro Torr turbopump with CF 4.5" inlet flange, 68l/s N2 pumping speed, and V-70 controller	R-2895	\$3,500.00
Varian/ C-Technologies	Cary 50 – Fiber optic dissolution test system, Cary Win UV software, C-Technologies Cassini 12Ch	R-3545	\$18,900.00
VAT	02010 BA241003 – Aluminum rectangular gate valve with 1.8"x9.3" opening	R-3095	\$3,000.00
VAT	02010-AA24-1009 – Stainless steel slit/transfer valve	R-2083	\$3,500.00
VAT	03010- – Load lock gate valve with pneumatic operation	R-3009	Call

ETS Products Catalog (as of January 07, 2011)

	and position indicator		
VAT	10848-UE24 – Series 10 double acting stainless steel gate valve	R-1694	\$3,950.00
VAT	20040-CE14-AAS1/0009 – DN-100 stainless steel pneumatic vatterfly valve with CF-F metric threads	R-3145	\$1,500.00
VAT	20044-PA44-1006 – 6" Vatterfly valve, aluminum body, pneumatic actuation	R-3010	\$1,200.00
VAT	20046-PA14-1001 – Aluminum Vatterfly valve, pneumatic actuation, DN200 (8")flange, position indicator	R-3092	\$2,200.00
VAT	64250-CE52-A1F1 – Stainless electrically actuated gate valve for CTI 10 with conflat flange	R-2111	\$3,500.00
VAT	PM-4 – New unused valve controller with remote interface	R-3587	\$1,800.00
VAT	series 12 – vacuum gate valve	R-273	\$750.00
VAT	Series10, 10848-UE44-0004 – VAT Series 10 UHV stainless steel gate valve with DN250 flange	R-3106	\$3,600.00
Veeco	CP II – Motorized Z stage, scans up to 100um, low voltage signal access module option	R-3655	\$36,000.00
Veeco	MS-170 – leak detector uses LN2	R-322	\$5,500.00
Veeco	MS30-T – Leak detector with turbo pump and color display screen	R-2977	\$9,250.00
Veeco	MS-40 – Full auto operation, internal roughing pump and calibrated leak	R-4109	\$12,000.00
Veeco	TMS-2000W – Surface texture measurements on wafers up to 200mm, non contact, up to 50 data points/second	R-3559	\$21,900.00
Veeco	V200-Si – Stylus profiler for up to 200mm substrates. Windows interface.	R-3222	\$49,500.00
Veeco/ Digital Instruments	Nanoscope III SPM, LSSF, DMLS – Scanning probe microscope with Nanoscope III controller, enclosure, DMLS, large scanning stage	R-3899	\$95,000.00
VERE	VERE 42248 – Honeycomb table 42"x24"x8" with 18" high nonisolating supports	R-2849	\$1,200.00
Verteq	1600-55A – Single spin rinser dryer with 6" rotor, automatic door, cabinet	R-2113	\$7,900.00
Verteq	1600-55A – Single spin rinser dryer with 4" rotor, automatic door, cabinet	R-2855	\$7,900.00
Verteq	1600-55A – Spin rinse dryer with automatic door, resistivity monitor, 4" rotor	R-2856	\$7,900.00
Verteq	1600-55M – Dual stack spin rinser dryer with resistivity monitors and customer choice of rotors	R-2371	\$16,500.00
Verteq	1600-55M – Dual stack spin rinser dryers with resistivity monitors, electropolished bowls, rotors	R-2597	\$16,500.00
Verteq	1800-6AR – 200mm spin dryer, bowl heater, static eliminators, auto-door, A192-81M 200mm rotor	R-3850	\$12,500.00
Verteq	A192-50M – rotor for 125mm wafers	R-1968	\$1,200.00
Verteq	Cobra-SAWS – Semiautomatic megasonic wet process tool with HF chemical tank, VcS tank, robot, and	R-3353	\$149,000.00

ETS Products Catalog (as of January 07, 2011)

	touchscreen		
Verteq	ST600-41TL – Megasonic cleaner for maximum 150mm wafers	R-1913	\$14,500.00
Verteq	Superclean 1600-55M – dual stack, microprocessor control, 6" rotors	R-1783	\$14,500.00
VG Instruments	326A	R-2232	Call
VIC/ Veeco	MS-40B – Full auto operation, internal roughing pump and calibrated leak	R-4112	\$14,000.00
View Engineering (div General Scanning)	Voyager 1000(V6x12) – benchtop non contact metrology tool	R-1730	\$17,500.00
View Engineering (div General Scanning)	Voyager V1800 – Non contact PC based dimensional metrology tool	R-1798	\$32,500.00
Vision Engineering	TS3 Dynascope – Dynascope with 3D stereo optics, 6-40x zoom, fiber ring lite, 150w halogen top light	R-3704	\$4,500.00
VLSI Standards	SHS-1.8QC – Step height standard	R-4039	\$2,500.00
Volpi	AS14/50 – video microprobe with 30x magnification and 50mm working distance	R-647	Call
VWR	1173 – -5 to 40C, 5.5psi @10gpm, 1/3hp, 780w @10C, 120v	R-3691	\$1,150.00
VWR	1450D – Vacuum oven with 18x18x24 chamber and 40-240C temp range	R-3338	\$3,950.00
VWR	1450M – max temp 225C, 4.5cuft, interior 18x24x18, PID controller with digital display	R-3974	\$4,500.00
VWR	1601 – high temp clean oven, 20x20x19, 2 shelves, 40-300C, Watlow digital display, nitrogen purge	R-3447	\$4,750.00
VWR	1601HEPA – HEPA oven with horizontal air flow, 40-200C, nitrogen purge, Watlow controller, 208v	R-3750	\$4,250.00
VWR	HAFO 1675 – floor model horizontal air flow, 40-325C, Watlow 24 step ramp and soak controller, 230v	R-4025	\$4,200.00
Walker Magnetics	HF12HB, HS1575-3SS – High temperature magnetic vacuum annealing furnace with Walker electromagnet	R-1707	\$42,500.00
Waters	6000A – high pressure pump	R-1352	\$1,900.00
Waters	HPLC – Complete HPLC system with ternary pump, 3 detectors	R-1351	\$9,500.00
WEB Technology	NID 7200 – Gross leak test system for small hermetic packages	R-748	\$4,500.00
Wei Min Industrial	LED-625 – LED tester	R-4125	Call
Wentworth	MP-1100 – Semiautomatic prober with 4" wafer chuck, Mitutoyo FS-50 microscope, (4) submicron positioners	R-3882	Call
Wentworth	MP-2000 – 200mm semiautomatic probe station with Labmaster 5.1 software and 2 computer aided probes	R-2761	\$35,000.00
Wentworth	MP-2300 – 200mm semiautomatic probe station with Labmaster 5.1 software and 2 computer aided probes	R-2758	\$35,000.00
Wentworth	MP-2300 – 200mm semiautomatic probe station with Labmaster 5.1 software and 2 computer aided probes	R-2759	\$35,000.00
Wentworth	MP-2300 – 200mm semiautomatic probe station with Labmaster 5.1 software and 2 computer aided probes	R-2760	\$35,000.00

ETS Products Catalog (as of January 07, 2011)

Wentworth	MPO908V – Manual prober with Zeiss Axiotron microscope and custom xy stage	R-2851	\$8,500.00
Wentworth	PR-0195/ PR-0195R – submicron positioners, 50tpi leadscrews, magnetic base, left hand	R-3718	\$850.00
Wentworth	PR-195 – 1 pair submicron positioners, 50tpi leadscrews, magnetic base	R-3719	\$850.00
Wentworth	PR-240 – 3 axis dovetail slide micropositioners with probe arm, magnetic base	R-3370	\$650.00
Wentworth	PVS-195 – "Superprobe", submicron positioner, vacuum base, X,Y micrometers have course (50tpi)/fine (1270tpi)	R-3717	\$3,500.00
Wentworth	PVS-195 – "Superprobe" with X,Y course/fine travel	R-3720	\$1,050.00
Westbond	5700B – Ball & wedge or wedge to wedge bonder with motorized Z bond head	R-4102	\$14,900.00
Westbond	7448C – Insulated ultrasonic wire bonder	R-2186	\$5,900.00
Westbond	K1200D – Heated workstage with digital temperature controller	R-3423	\$1,500.00
Wild	M3Z, pn445233 – Stereozoom microscope with oblique 360 degree viewing attachment	R-4099	\$7,900.00
Wild	M420 – macroscope, 16–80x zoom or 6.3–32x	R-616	\$3,500.00
Wild	M420 – Macroscope with Boekeler xy measuring stage	R-1820	\$7,500.00
Wild	M8 – Stereozoom with 8:1 zoom ratio, 20x eyepieces, 1xAPO objective, 4x6 xy stage, fiber ring light	R-3336	\$4,500.00
Wilson	B555-T – Rockwell digital hardness tester with automatic updrive and front panel controls	R-1576	\$5,900.00
Xinix	1015SS – plasma endpoint controller with monochromator	R-1646	Call
Yamato	DP-43 – Vacuum oven with 17"x17"x17" chamber, microprocessor control andAlcatel pump	R-2426	\$6,500.00
Yamato	SM-32 – Microprocessor controlled fully auto autoclave	R-1826	\$2,500.00
Yamato	SM-52 – Microprocessor controlled fully auto autoclave	R-2804	\$2,500.00
Yield Engineering	15 – Class 1 compatible vapor prime oven	R-2375	\$21,900.00
Yield Engineering	6112A – Vacuum bake/vapor prime oven with capacity for 4 cassettes of 8" wafers or 8 cassettes of 5/6" wafer	R-2404	\$15,900.00
Yield Engineering	CV-100PZ – downstream plasma resist stripper	R-1609	\$42,000.00
Yield Engineering	R1/PE-1000 – Advanced Energy PE-1000 Rf power supply with LM1.25K	R-3928	\$17,500.00
Yield Engineering	R3C – Plasma cleaner for hybrid devices, microprocessor control with 500w 50khz power supply and Alcatel	R-3666	\$21,900.00
Yield Engineering	YES 5PE – HMDS vapor prime oven, 16"x16"x16" chamber, new style controller with LCD display	R-3148	\$22,900.00
Yield Engineering	YES-310D – Dual function HMDS vapor prime/ NH3 image reversal bake oven	R-3796	\$26,000.00
Yield Engineering	YES-310D – Dual function HMDS vapor prime/ NH3 image reversal vacuum bake oven	R-3963	\$27,500.00

ETS Products Catalog (as of January 07, 2011)

Yield Engineering	YES-3DR	R-3970	\$21,000.00
Yokogawa	MT110 – digital manometer	R-1641	\$2,900.00
Zeiss	(CAM) – contact angle microscope	R-498	\$4,950.00
Zeiss	AxioCam HRc – ultra high resolution color CCD camera with image capture card for fluorescence	R-3998	\$7,500.00
Zeiss	Axiocam MRc – Medium resolution digital CCD camera for fluorescence and color imaging, 1.4 megapixel	R-3999	\$2,950.00
Zeiss	Axioplan 2 – Axioplan 2 configured for brightfield, darkfield, and DIC, programmable 4x4 xy stage	R-3675	\$24,900.00
Zeiss	Axioplan 2 – Reflected light with brightfield, darkfield, fluorescence, 5/10/20/50/100 Epiplan HD objectives	R-3640	\$16,500.00
Zeiss	Axiospect 300 – Automated 300mm inspection/review station, 2 FOUP minienvironment load ports, Axiotron 300 microscop	R-3920	Call
Zeiss	Axiosprint – Automated inspection station with Zeiss Axiotron 2 confocal microscope, , BF/DF/DIC	R-3194	\$79,500.00
Zeiss	Axiotron – Wafer Inspection microscope with trinocular tilt head	R-659	\$14,900.00
Zeiss	C-400 – 1518-12, manual, air bearing CMM 1518-12, manual, air bearing	R-1573	Call
Zeiss	MSM 193 – Microlithography simulation tool, 193nm Excimer laser, Photometrics Quantix CCD imaging camera	R-3631	Call
Zeiss	Stemi 1000 – Stereozoom microscope on boom stand with 17.5x-87.5x magnification range	R-2326	\$1,850.00
Zygo	AMS 310T – Performs inspection & measurement of photomasks, magnetic heads, and wafers	R-2665	\$28,500.00