









Master Spare Parts List

Part #	Title	Units	Lead Time (weeks)	Minimum Order Qty.	System	Image
30-20AB-0051	Grating Tilt Adjust Full Assembly	each	2	1	AXP, 200, 600	
30-20AB-0060	Sample Support, Adjustable Titanium Arms, AXP Oven	each	2	1	AXP	
30-20AB-0063	Uniform Area Support (UAS) Fixture - PCB Support Assembly	each	2	1	AXP	
30-20AB-0113	Rail Assembly, Y-Axis Support, AXP Oven	each	4	1	AXP	
30-20AB-0114	Rail Assembly, Y-Axis Support, PS600S Oven, Titanium, Sample Support	each	1	1	600	
30-20AB-0117	Blower, 208-230VAC, 1/35hp w/ connector	each	2	1	AXP, 600, 200	
30-20AB-0118	Camera Assembly, GigE Version, AXP	each	2	1	AXP, 600	
30-20AB-0119	Camera Assembly, GigE Version, PS200S	each	2	1	200	
30-20AB-0120	Computer Assembly, GigE Vision, Akrometrix Studio	each	3	1	AXP, 200, 600	
30-20AB-0128	Top Heater, Quartz Tubes, T Series	each	3	1	AXP 2.0	
30-20AB-0157	Light Source, Twin 30W LED	each	2	1	All	
30-20AB-0194	Sample Support Assembly, Wafer Aluminum Grid	each	3			
30-20AB-0196	100 LPI Grating (2.5um z resolution) with grating case	each	5	1	TTSM	
30-20AB-0197	200 LPI Grating (1.25um z resolution) with grating case	each	5	1	TTSM	
30-30CB-0061	Ethernet Cable, Shielded, Black, 14 ft, Cat 5	each	1	1	All	
30-20ED-0001	IR Tube, Replacement, PS88 Version	each	3	4	PS88	
30-20ED-0002	IR Tube, Replacement, PS88+ version	each	3	4	PS88+/200	
30-20ED-0003	IR Tube, Replacement, 300 Watts, 30VAC	each	3	4	200e/200S	
30-20ED-0004	IR Tube, Replacement, 400 Watts, 44VAC (15 Bulb Oven)	each	3	5	AXP	

30-20ED-0005	IR Tube, Replacement, 25"	each	3	5	600	
30-20ED-0006	IR Tube, 205W, 22VAC, 17.5" (24 Bulb Oven, Bulb# 7-16)	each	3	5	AXP	
30-20ED-0007	IR Tube, 250W, 27.5VAC, 17.5" (24 Bulb Oven, Bulb# 4-6, 17-21)	each	3	5	AXP	
30-20ED-0008	IR Tube, 325W, 36.67VAC, 17.5" (24 Bulb Oven, Bulb# 1-3, 22-24)	each	3	5	AXP	
30-20ED-0015	Quartz Heater Bulb, T Series, 917W	each	3	3	AXP 2.0	
30-20MP-0061	Aluminosilicate Glass for Sample Support (143 x 143 mm)	each	2	1	All	
30-20MP-0102	Sample Support Mount, Phasing Assembly	each	6	1	200L	
30-20MP-0126	Phase Assembly, Main Support Arms, AXP	each	2	1	AXP, 600	
30-20MP-0137	Sample Support Rod, Short, Phasing Assembly	each	6	2	200L	
30-20MP-0138	Support Arm, Front, Phasing Assembly	each	6	1	200L	
30-20MP-0139	Support Arm, Rear, Phasing Assembly	each	6	1	200L	
30-20MP-0173	Sample Support Mount, PS200	each	6	1	200	
30-20MP-0174	Sample Support Rod, PS200	each	6	2	200	
30-20MP-0175	Phase Assembly, Main Support Arm, PS200	each	6	1	200	
30-20MP-0260	Sample Support Glass, Quartz 110x110x2mm	each	3	1	All	
30-20SP-0174	Mounting Tray for LED Light Source for AXP 1.0	each	2	1	AXP 1.0	
30-20VA-0001	Calibration Block Recertification	each	3	1	All	
30-30CB-0060	Cable, Ethernet, 14 ft	each	2	1	All	
30-30ED-0003	Fuse, 400 mA, 5x20mm, Med Time Delay	Pkg5	2	1	AXP, 600	
30-30ED-0004	Trigger Box (w/ 2 Camera cables)	each	4	1	AXP, 200	
30-30ED-0013	Power Supply, 24VDC, 10A	each	3	1	AXP, 200	
30-30ED-0014	Power Supply, 12-15VDC, 50W,	each	3	1	AXP	
30-30ED-0029	K Type High Temp, Male Mini connector	each	3	4	AXP, 200, 600	

30-30ED-0030	Thermocouple, K Type, 36 inches, 36 Ga.	Pkg5	3	1	AXP, 600	
30-30ED-0032	Fuse, Time Delay, 250mA	Pkg5	2	1	AXP, 200, 600	
30-30ED-0041	Framegrabber, PCI Bus, no VGA	each	2	1	200	
30-30ED-0054	Imaged Hard Drive Replacement	each	1	1	All	
30-30ED-0060	Circuit Breaker, 2 Pole, 8 Amp, D Trip	each	3	1	AXP	
30-30ED-0061	Motor, Drive, & Controller w/ Enc. Follow	each	3	1	AXP, XL, 600	
30-30ED-0062	Motor, Drive, & Controller	each	3	1	All	
30-30ED-0063	Power Supply, 5vdc/5.5A, 12vdc/3A	each	4	1	AXP, 200	
30-30ED-0066	Fuse, 12A, 600V	each	2	4	AXP, 200	
30-30ED-0067	Fuse, 125 mA, 5x20mm, Med Time Delay	Pkg5	2	1	AXP, 200, 600	
30-30ED-0068	Fuse, 200 mA, 5x20mm, Med Time Delay	Pkg5	2	1	AXP, 200	
30-30ED-0069	Fuse, 250 mA, 5x20mm, Med Time Delay	Pkg5	2	1	AXP, 200, 600	
30-30ED-0070	Fuse, 40 A, Class J, 1.0625" x 2.375"	each	2	4	AXP	
30-30ED-0072	Light Source, 150 Watt, DCR III Light	each	2	1	All	
30-30ED-0073	Lamp, 150 watt, 20volts, Faceted Reflector	each	2	2	All	
30-30ED-0078	Relay, DPDT, 24vdc coil, 10A	each	2	1	AXP, 200	
30-30ED-0089	Mouse, Flat wheel, Optical w/ wheel, USB, Black	each	2	1	All	
30-30ED-0090	Keyboard, USB, Black, with USB 2.0	each	2	1	All	
30-30ED-0094	Relay, Safety Switch, 3NO, 1NC, 24 VDC, 2.4W	each	2	1	AXP, 200	

30-30ED-0096	Switch, Solenoid-Latching Machine Guard, 2 NC Contacts, 24VAC/DC, 10W	each	2	1	AXP, 200, 600	
30-30ED-0097	Override Key, Solenoid Bypass.	each	2	1	AXP, 200, 600	
30-30ED-0101	Relay, Control Relay, 3NO 1NC, 24VDC, 5.4W, 20A Contacts	each	2	1	AXP, 200	
30-30ED-0107	Terminal Block, Fused Disconnect, Blown Fuse	each	2	1	200	
30-30ED-0112	Temperature Controller, 8 Loop Controller	each	4	1	AXP, 600	
30-30ED-0113	K Thermocouple Cable, #6 Stud, Split Leads, 20 GA	each	2	1	AXP, 200, 600	
30-30ED-0114	OverTemperature Limit Controller, 3 EM-Outputs, 24-28 VAC/DC, 7VA	each	4	1	AXP, 200, 600	
30-30ED-0115	Relay, Power, SSR, 18A	each	2	1	AXP, 200	
30-30ED-0120	Relay, 3PDT, 24VDC coil, 10A	each	2	1	AXP	
30-30ED-0122	Relay, SPST, SCR, 3.5-32VDC Control, 50VDC Output	each	2	1	AXP	
30-30ED-0123	Relay, SPST, SCR, 3-32VDC Control, 24-280VAC Output	each	2	1	AXP	
30-30ED-0124	Relay, SPST, 24VDC coil, 10A	each	2	1	AXP	
30-30ED-0127	Firewire, Hub, 5 port, Industrial, 1394b	each	3	1	AXP, 200	
30-30ED-0129	Strap, ESD Wrist, 6' Coiled	each	2	1	All	
30-30ED-0134	Flashlight, LED, 6.625", Aluminum	each	2	1	All	
30-30ED-0136	Monitor, Flat Panel 24" Viewable, Black	each	2	1	All	
30-30ED-0146	Fuse, 100 mA, 5x20mm, Med Time Delay	Pkg5	2	1	200	
30-30ED-0147	Fuse, Class CC, 13/32" x 1.5"	each	2	4	200	
30-30ED-0153	Relay, 3PDT, 240vac coil, 10A	each	2	2	200	
30-30ED-0155	Thermocouple, K Type, 12 inches, 36 Ga.	Pkg5	3	1	200	

30-30ED-0157	Temperature Controller, RS232, 2 T/C, Single Loop, 24VDC	each	4	1	200	
30-30ED-0178	Fuse, Time Delay, 5A	each	2	1	600	
30-30ED-0247	Fuse, Time Delay, 3.15A	each	1	5	AXP 2.0	
30-30ED-0271	Power Supply, 12VDC, Hirose 12 Pin Female Plug	each	2	1	AXP, 200, 600	
30-30ED-0278	Power Supply, 5VDC/10A, 12VDC/3A	each	2	1	AXP, AXP 2.0	
30-30ED-0283	SPST Relay, 24VDC Coil, w/ Diode	each	2	1	AXP, AXP 2.0	
30-30ED-0284	DPDT Relay, 24VDC Coil, w/ Diode	each	2	1	AXP, AXP 2.0	
30-30ED-0325	Relays SSR 40A, 24-240FAC, Control 5-24VDC	each	2	1	AXP 2.0	
30-30ED-0326	Fuse, 5 x 20mm, GDC Series Time Delay	each	1	5	AXP 2.0	
30-30ED-0327	Fuse, 5 x 20mm, GDC Series Time Delay, 5A	each	1	5	AXP 2.0	
30-30ED-0342	Hard Drive, Solid State, 1TB	each	1	1	All	
30-30ED-0346	Fuse, Class RK5, 45A 250VAC, time delay	each	1	5	AXP 2.0	
30-30HW-0070	Drawer Slide, Push-to-Open, 14" Closed	each	1	1	TTSM	
30-30HW-0088	Paint, High Temperature, White (or Black)	each	2	6	All	
30-30MD-0056	Dispenser, Tape, 1" wide, 3" Core	each	2	1	All	
30-30MD-0062	Thermal Grease, Non-Silicone, 350C Max	each	2	1	AXP 2.0, AXP, 200, 600	
30-30MD-0065	Lubrication, DS-ES 6cc syringe	each	2	1	All	
30-30MD-0074	Adhesive backed silicone gasket	each	2	1	All	
30-30MD-0078	1/2" X 36 yards High Temperature Tape	each	2	2	AXP, 200, 600	

30-30MD-0082	Cross Roller Stage, 2" stroke, 0.02" pitch	each	3	1	AXP, 200	
30-30MD-0084	Sample, 27mm x 27mm, FR4	each	2	1	All	
30-30MD-0087	Carriage, Recirculating Ball, V Block	each	2	1	AXP	
30-30MD-0089	Air, Filter Regulator, with Bracket	each	2	1	AXP, 200, 600	
30-30MD-0095	Cleaner, 8 oz spray bottle, Isopropyl Alcohol and 2-Butoxyethanol	each	2	1	All	
30-30MD-0096	Tissue, Lens Cleaning, 4" x 6", 100 Sheet	each	2	1	All	
30-30MD-0097	Tools, Hex Key (U.S. Units), 0.005" to 3/8"	each	2	1	All	
30-30MD-0099	Gloves, Nomex, heat resistant to 500 F	each	2	1	AXP, 200, 600	
30-30MD-0103	Bearing, Needle, 0.25" Bore, 0.6875" OD, 0.0781 w	each	2	2	AXP	
30-30MD-0118	Lift, Torsional Spring, CB160 series	each		1	PS200	
30-30MD-0140	Cross Roller Stage, 2" stroke, 0.1" pitch	each	6	1	PS600	
30-30VD-0010	Camera, 2/3" firewire, C-Mount, 1392 x 1040, 15 fps	each	2	1	All	
30-30VD-0013	Filter, UV/IR, 40.5mm Thread	each	3	1	AXP, 200	
30-30VD-0015	Lightline, 12"	each	2	1	All	
30-30VD-0016	Lens, 12.5mm, F1.4, 1" C Mount, Fixed Stops, 49mm Threads (Requires 30-30VD-0018)	each	3	1	AXP	
30-30VD-0017	Lens, 50mm, F1.4, 1" C Mount, Lock Down screws, 40.5mm Threads (Requires 30-30VD-0013)	each	3	1	AXP	
30-30VD-0018	Filter, UV/IR, 49mm Thread	each	3	1	AXP, 200	

30-30VD-0022	Lens, 12.5-75 mm Zoom Lens, 49mm Thread (Requires 30-30VD-0023 and 30-30VD-0018)	each	3	1	AXP, 200	
30-30VD-0023	Lens, Close-up, +1 Diopter	each	3	1	AXP, 200	
30-30VD-0024	Lens, Range Extender, 1.5x	each	3	1	200	
30-30VD-0025	Camera, 1/2"	each	4	1	200	
30-30VD-0026	Lens, 8mm, F1.4, 2/3", C-Mount	each	3	1	XL	
30-30VD-0042	Calibration Flat, 75mm Square	each	4	1	AXP, 200, 600	
30-30VD-0043	Camera, GigE Vision, 1.4MP, 1392x1024, 17 FPS, 2/3" CCD	each	2	1	AXP, 200, 600	
30-30VD-0051	GigE Camera, 2 MP, 1/1.8" CCD	each	2	1	TTSM	
30-30VD-0052	Varifocal Lens, 12-36mm, 2/3" Sensor - Max FOV 276x209mm (Use with 200LPI Grating only)	each	2	1	TTSM	
30-30VD-0053	Varifocal Lens, 4.4-11mm, 1/1.8" Sensor - Max FOV 310x300mm	each	2	1	TTSM	
30-4400-8300	Fused Silica Lens for High Temp Repeatability Check (w/ case)	each	2	1	All	
30-4400-1000	12.5-75mm Zoom Lens with IR and close-up filter	each	4	1	AXP, 200	
30-4400-1200	50mm Fixed Lens with IR filter	each	4	1	AXP, 200	
30-4400-1800	TherMoire AXP, Spider Framework Option	each	6	1	AXP	
30-4400-3400	Calibration Block (8 mil) w. Certification (w/ case)	each	6	1	All	
30-4400-7200	Accuracy Check Block, 1 mil Step Height, w/ case	each	6	1	All	
30-4400-5600	Accuracy Check Block, 2.5 mil Step Height, w/ case	each	6	1	All	
30-4400-5500	Accuracy Check Block, 5 mil Step Height, w/ case	each	6	1	All	

30-4400-7300	Accuracy Check Block, 10 mil Step Height, w/ case	each	6	1	All	
30-4400-3300	Grating, 50 LPI, 18"x18" Ruling (w/ case)	each	6	1	AXP	
30-4400-3200	Grating, 100 LPI, 18"x18" Ruling (w/ case)	each	6	1	AXP	
30-4400-3900	Grating, 200 lpi, 18"x18" Ruling (w/ case)	each	6	1	AXP	
30-4400-3800	Grating, 300 lpi, 18x18", 10"x10" Ruling (w/ case)	each	6	1	AXP	
30-4400-8600	100 LPI Grating; (400mm x 400mm FOV) with Grating Case	each	6	1	AXP 2.0	
30-4400-8700	200 LPI Grating; (400mm x 400mm FOV) with Grating Case	each	6	1	AXP 2.0	
30-4400-8800	300 LPI Grating: (250mm x 250mm FOV) with Grating Case	each	6	1	AXP 2.0	
30-4400-9000	Grating, 50 LPI, PS200, 14"x9" Ruling (w/ case)	each	6	1	200	
30-4400-4600	Grating, 100 LPI, PS200, 14"x9" Ruling (w/ case)	each	6	1	200	
30-4400-4000	Grating, 200 LPI, PS200, 9"x9" Ruling (w/ case)	each	6	1	200	
30-4400-2100	Grating, 300 LPI, PS200, 9"x9" Ruling (w/ case)	each	6	1	200	
30-4400-3500	Grating, 50 lpi, 25"x25" Ruling (w/ case)	each	6	1	600	
30-4400-3600	Grating, 100 lpi, 25"x25" Ruling (w/ case)	each	6	1	600	
30-4400-4700	Grating, 100 LPI, 28"x25" Ruling (w/ case)	each	6	1	XL	
30-4400-4800	12.5mm Fixed Lens with IR filter	each	4	1	AXP, 200	
30-4400-5900	Quartz Glass Sample Support Fixture; (250mm x 250mm) with case	each	2	1	AXP, PS600	
30-4400-8400	Quartz Glass Sample Support Fixture; (300mm x 300mm) with case	each	2	1	AXP, PS600	
30-4400-6300	GigE Camera & Computer Kit, AXP (Z170)	each	4	1	AXP	
30-4400-0150	Dark Robax Sample Support fixture; (110x110mm) with case	each	6	1	All	
30-4400-9300	Dark Robax Sample Support Fixture; (250x250mm) with case	each	6	1	AXP, PS600	
30-4400-9400	Dark Robax Sample Support Fixture; (300x300mm) with case	each	6	1	AXP, PS600	
30-4400-9500	Dark Robax Sample Support Fixture; (375x375mm) with case	each	6	1	AXP, PS600	