

Build better with genuine Universal Instruments performance and reliability enhancements

LIST PRICE RANGE (\$K): Low (L) < 5, Medium (M) 5–10, High (H) 10+

LEAD TIME (WEEKS ARO): Standard (S) 4–6, Extended (E) 6–12, Custom (C) 12+

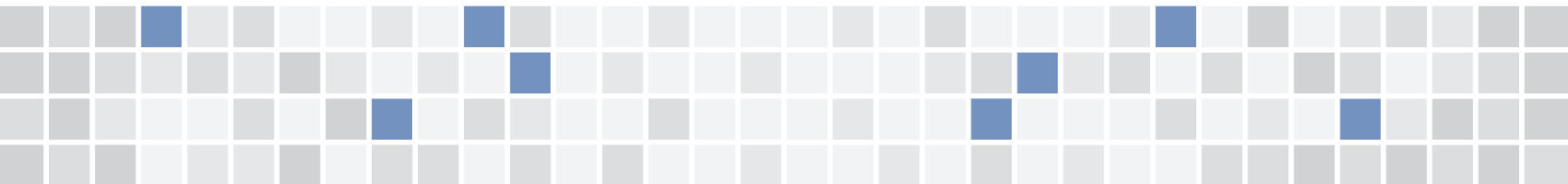
(#s) indicate which row the item is located in within the reference document



General Upgrades & Retrofits	Description	Prerequisites/Notes
Extended Warranty (1)	Protect your investment with an additional warranty package. A variety of warranty packages are available covering parts, labor and/or both.	ROI analysis; Machine in active, standard or reduced support phase. (M, S)
eLearning (2)	Train operators on a variety of subjects efficiently and cost-effectively online. Classes available 24 x 7.	(L, S)
OFA Capability (4)	Upgrade your existing platform for precise handling of odd-form components with available cameras, spindles, nozzles, tooling, and more to meet your specific odd-form challenges	Fuzion 3.11 Software; RFQ required. (H, E)
Instant Recovery Kits (11)	Reduce downtime with critical spare parts that allow you to quickly recover after a machine issue – may include boards, motors, etc.. A variety of kits are available.	(L, S)
Preventative Maintenance Kits (13)	Extend your machine life by maintaining its critical components. Kits include the tools required to perform routine platform PM: lubricants, machine zero fiducial fixture, grease gun and attachments, cleaning cloth.	A minimum of one kit per site is recommended (L–M, S–E)
RAID Drive (17)	Increase MTBF and leverage an additional drive for mirror image or backup	(L, S)
SSD Drive (18)	Increase MTBF and leverage an additional solid-state drive for mirror image or backup	Fuzion B-block and higher; Fuzion 3.x+ Software. (L, S)
Quick-tool Board Support Kits (34-37)	Establish a consistent component placement plane and streamline changeover. The kit includes a main control box, power supply, distribution manifold and everything needed to get started. Includes one high-density module.	Multiple kits available: Quirk-tool™ 21.0" Board Support Kit Quirk-tool 18.0" Board Support Kit Large PCBs may require multiple kits. (L, S)
Quick-tool Individual Module (38-39)	Expand board size handling capabilities and reduce changeover time with additional high-density board support modules	Multiple modules available: Quirk-tool 21.0" Individual Module Quirk-tool 18.0" Individual Module (L, S)
Large and Heavy Board Kits (40)	Expand your large board handling capability by supporting larger boards up to 1.3 m (51.8 ") and heavier boards up to 3.17 kg (7 lbs).	Multiple kits available; Block and model dependent. (L, S)

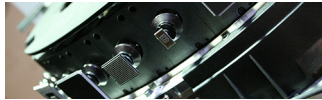


Software Upgrades & Retrofits	Description	Prerequisites/Notes
Genesis Series 2 Fuzion 3.x Software Upgrade (5)	Upgrade your platform to the latest software revision level to leverage a host of programming, NPI and changeover tools. Upgrade protects critical parts availability such as: currently supported MB, Vision Card, MCOS. Common inventory for spares for Series II and Fuzion 3.x machines and ion feeder compatibility.	Windows®7 upgrade included; Genesis Series 2; UPS 8.x Software; PC Vision. (H, C)
Fuzion 1.x to 3.x Software Upgrade (6)	Upgrade your platform to the latest software revision level to leverage a host of programming, NPI and changeover tools. Upgrade protects critical parts availability. Leverage common inventory for spares for Series II and Fuzion 3.x machines. New software functionality and enhancement support, license-based options such as. LTFA support and more.	Windows 7 upgrade included; Software upgrade checklist. (H, C)





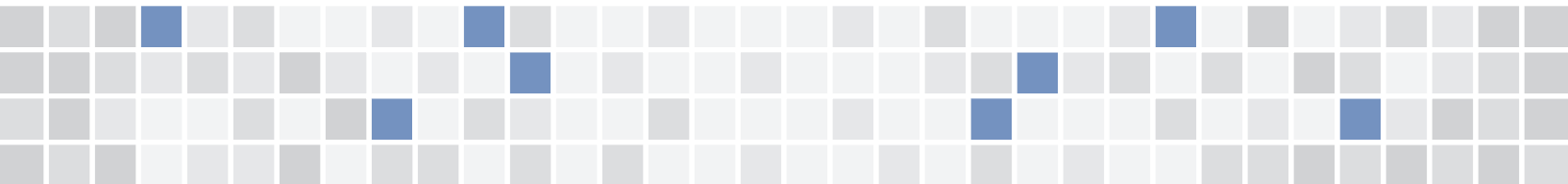
Software Upgrades & Retrofits (cont.)	Description	Prerequisites/Notes
Fuzion 2.x to 3.x Software Upgrade (7)	Upgrade your platform to the latest software revision level to leverage a host of programming, NPI and changeover tools. Upgrade protects critical parts availability. Leverage common inventory for spares for Series II and Fuzion 3.x machines. New software functionality and enhancement support, license-based options such as LTFA support and more.	Windows 7 upgrade included; Software upgrade checklist. (H, C)
Line Chart 3.x Upgrade (9)	Improve factory control with a host of monitoring and analytics enhancements, including full-line data correlation	Genesis or Fuzion customers must register on Line Chart vendor website (M, S)
Equipment Assessment/E-Log (20)	Improve utilization and performance with an on-site assessment, including: verification of machine configuration and software, inspection of major mechanical and electrical systems and subsystems, evaluation and reporting on possible machine enhancements and worn parts in need of replacement	(M, S)
Factory Data Collection Software License (10)	This additional software license allows you to use machine-side enhanced data collection	Fuzion 3.5x Software; Machine software upgrades must be purchased separately. (L, S)



Head Upgrades & Retrofits	Description	Prerequisites/Notes
Nozzle Cleaning Kits (12)	Maximize nozzle performance and extend use with all of the tools necessary to clean and maintain your nozzles, including: ultrasonic cleaner and cleaning solution, nozzle remover tool, nozzle hanger, and wire cleaning kit (sold separately).	(L-M, S)
30-Spindle Head Performance Kit (21)	Optimize the performance of your Lightning Head. The kit provides all required parts to rebuild all 30 spindles, including poppet valves, pre-loaders, venturis, washer plates, filters, and more. One kit per head. Replacement is recommended every 5 million cycles.	Multiple kits available: Lightning Series 1 Performance Kit Lightning Series 2 Performance Kit (M, S)
Lightning Spindle Accuracy Retrofit Kit (22)	Improve standard deviation performance with mechanical enhancements including a new theta gear. Testing at customer sites has shown approximately 5 microns in standard deviation improvement. One kit per head.	Genesis only; Block dependent. (M, S)
Lightning Spindle Tester (22a)	The spindle tester assembly aids in the maintenance and troubleshooting of head spindle assemblies to help quickly identify suspect assembly components. It also minimizes unscheduled production downtime and reduces maintenance costs.	(M, S)
Low-Force Nozzles for FZ7 Head (24)	Leverage low-force functionality for applications requiring less than 150 grams of placement force	Fuzion 3.7+ Software and FZ7™ Head only (L, S)



Feeder Upgrades & Retrofits	Description	Prerequisites/Notes
Small Reel PSV Cable (8 mm Dual-Lane) (3)	New design improves cable robustness in high-use environments	Gold+ feeders only; Not applicable to ion® feeders. (L, S)
Feeder Bank Storage Table (8)	Streamline feeder replenishment and maximize utilization by easily preparing feeder banks for offline setup and validation. This CE-compliant setup station is compatible with both Gold and ion® feeders. Holds two feeder banks and supports banks with baskets and cutters.	Requires feeder carts (L, S)





Feeder Upgrades & Retrofits (cont.)	Description	Prerequisites/Notes
Gold Feeder Latch (14)	Ensure that the feeder window is safely secured during production, as windows that aren't properly closed can cause interference	(L, S)
Feeder Magnetic Tape Deck (15)	Improve small component presentation by maintaining component position during carrier tape index	8mm ion feeders only (L, S)
High-Performance Gold Deep-Pocket Feeders (25-33)	Run taller components and embossed plastic tape with a deeper pockets. Sizes range from 16mm to 104mm.	Multiple feeder sizes available: 16, 24, 32, 42, 56, 72, 104mm; Application dependent. (M-H, E-C)



Vision Upgrades & Retrofits	Description	Prerequisites/Notes
PEC Camera Upgrade (16)	Improve recognition capabilities with improved optics	(M-H, S)
FireWire Field Kit (19)	Relocate and secure FireWire cable to prevent inadvertent resets	Genesis and Fuzion A-block and early B-block only (L, S)
FireWire PEC and Narrow FoV Strain Relief Kit (23)	Secure FireWire cable at the camera to prevent inadvertent resets	Works only with Flir cameras; Not compatible with Basler. (L, S)

www.uic.com | email: universal@uic.com

MC-6950

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AMERICAS

Tel. 1-800-432-2607

Tel. +1-607-779-7522

CHINA, SHENZHEN

Tel. +86-755-2685-9108

CHINA, SHANGHAI

Tel. +86-21-6495-2100

EUROPE

Tel. +421-2-4930-96-60

PENANG, MALAYSIA

Tel. +60-4-644-7067

