

*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



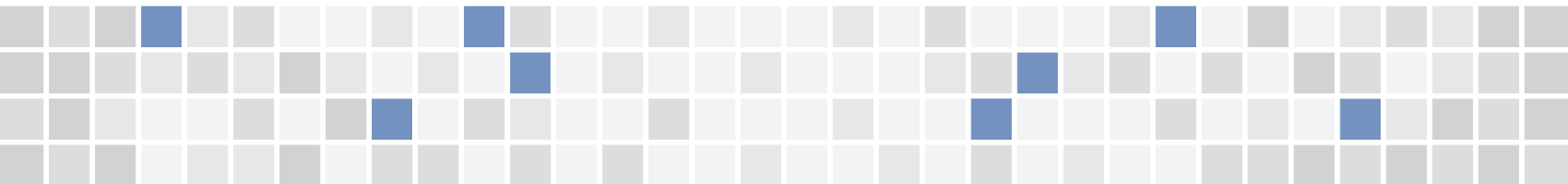
General Upgrades & Retrofits	Description	Prerequisites/Notes
<b>Linear Thin Film Applicator (LTFA) (2)</b>	Extend your Fuzion/Genesis platform capabilities into advanced packaging applications such as Package-on-Package. A more robust design enhances the leveling set up and provides stronger flux-plate mounting.	Software assessment required for SM platforms; Fixed feeder bank. <b>(H, E)</b>
<b>LTFA Tooling Upgrades (3)</b>	Improved tooling provides additional durability, flux plate options for larger dipping area, and multi-dip zone plates for process development	Application assessment required <b>(M, E)</b>
<b>Instant Recovery Kits</b>	Reduce downtime with critical spare parts which allow you to quickly recover after a machine issue	A variety of kits are available <b>(M, S)</b>
<b>Ionizer (9)</b>	Reduce potential component damage by minimizing ESD conditions in production; can be located at board-in/out or inside the cover package.	<b>(H, E)</b>
<b>HEPA Filter (10)</b>	Extend your product reach by enabling a clean room production environment	<b>(H, C)</b>
<b>Equipment Utilization Audit (14)</b>	Maximize machine utilization by identifying areas of improvement with an on-site service performed by an expert Field Engineer	<b>(M–H, S)</b>
<b>Top-Side Alignment Process (TAP) Kit (18)</b>	Implement Universal's TAP process for high-accuracy placement of LEDs and other components based on top-side features. TAP is particularly effective for the Automotive, Solar and Semiconductor markets. The kit includes: Precisor™ Top Feature Inspection Station, specialized software and additional machine tooling.	Fuzion3.7x+ Software; Software assessment required; Application-specific tooling may be required. <b>(H, E)</b>



Software Upgrades & Retrofits	Description	Prerequisites/Notes
<b>Fuzion 3.x Software Upgrade (11)</b>	Upgrade your platform to the latest software revision level to leverage a host of features, including an expanded component range to 08004, nozzle tip centering, IQ360™ Factory Software compatibility, and compatibility with other SM platforms	Requires software assessment and RFQ <b>(H, S)</b>



Head Upgrades & Retrofits	Description	Prerequisites/Notes
<b>Low-Force Nozzles for FZ7 Head (6)</b>	Leverage low-force functionality for applications requiring down to 40 grams of placement force with a variety of low-force nozzles	Fuzion 3.7+ Software <b>(L, E)</b>
<b>Semiconductor Nozzles for FZ7 Head (15)</b>	Place a full range of die sizes and types. Custom semiconductor nozzles are available in a variety of materials.	<b>(L, S)</b>





Feeder Upgrades & Retrofits	Description	Prerequisites/Notes
<b>Extended Warranty</b>	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. <b>(M, S)</b>
<b>Solder Ball Feeder (4)</b>	Expand application capabilities and improve efficiency by feeding solder balls from bulk	Requires specialized tooling and application review <b>(H, E)</b>
<b>Vacuum Tray Feeder (VTF)</b>	Maximize efficiency and reduce replenishment times by feeding single-part number components from trays for higher-volume applications. Supports up to 40 trays.	Vacuum trays only <b>(H, E)</b>
<b>JEDEC Tray Feeder (JTF) (12a)</b>	Maximize efficiency and reduce replenishment times by feeding single-part number components from trays or higher-volume applications. Supports up to 40 trays.	JEDEC trays only <b>(H, E)</b>
<b>Flexion™ Wafer Feeder (13)</b>	Present wafer-level devices to Universal's FuzionSC Platform without incurring costly die packaging expense. Flexion supports wafer sizes from 4" to 12". It also supports wafer mapping, built-in traceability, and features an advanced die ejection option. CE Certified. Two per machine.	Software license and applications review required; Fixed feeder bank required. <b>(H, E)</b>
<b>4mm x 1mm ion Feeder (16)</b>	Dual-lane feeder presents components from 4 x 1 tape. Supports both paper and embossed tape.	<b>(L, E)</b>
<b>Axiom Label Feeder (17)</b>	Reduce cost and improve quality by eliminating manual assembly. Pick and place labels, masks, insulators, shields, and other adhesive-backed media.	<b>(H, E)</b>



Vision Upgrades & Retrofits	Description	Prerequisites/Notes
<b>Pattern Error Correction (PEC) Camera Upgrade (1)</b>	Improve recognition capabilities with improved optics and higher resolution by replacing the .40 mpp PEC with a .27 mpp	Fuzion 3.x+ Software <b>(H, S)</b>
<b>Upward-Looking Camera .2 mpp (7)</b>	Improve recognition capabilities with a higher resolution camera for placement of fine pitch components with bump features down to 20 microns	Fuzion 3.x+ Software <b>(H, S)</b>
<b>Upward-Looking Camera .5 mpp (8)</b>	Improve recognition capabilities with a higher resolution camera for placement of fine pitch components with bump features down to 50 microns	Fuzion 3.x+ Software <b>(H, S)</b>

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MC-6951

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