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## Top Uses for the 2.8mm VJ-Advance Video Borescope

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In January RF System Lab announced the arrival of the 2.8mm VJ-Advance (VJ-ADV) video borescope. Now, the creators of the 2.8mm VJ-ADV would like to provide an update regarding the different industries that are utilizing the super slim 2.8mm VJ-ADV, as well as detail what makes this video borescope such a necessity in those industries.

The 2.8mm has all the same features as their original, 6.9mm VJ-Advance, including four-way joystick-controlled camera articulation, medical grade camera technology, and trigger activated image capture. However, as indicated by the name, the 2.8mm VJ-ADV offers a much slimmer insertion tube diameter, allowing inspection of much tighter spaces.

A function that was noted in several instances was the aerospace industry's use of the 2.8mm VJ-ADV to complete casting inspections. Internal Foreign Object Debris (FOD) detection is crucial, especially for integral parts such as the small cord oil passageways in the casting that surround the turbine engine. The 2.8mm video borescope is ideal for casting inspection because of its slender size and smaller bending radius, allowing it to easily navigate through tight corners and small tubing to detect corrosion or FOD.

The small passageways of the casting are extremely expensive to replace, so a majority of companies in the Aviation and Aerospace industry use borescopes like the 2.8mm VJ-ADV to perform preventive avionics maintenance to ensure that the welding is fully sealed and that there are no ruptures or leakage in the joints of the casting. Performing this inspection prior to installing the casting also instills confidence that future inspections will be passed and that the integrity of all parts that make up the casting is upheld.

Another notable industry in which to 2.8mm has been popular is 3D printing and other electronic inspections. 3D printers are becoming standard in many industries, and making sure the 3D printer you are using to create parts is in full working order, as well as inspecting the finished



printed parts, is a must. The 2.8mm seamlessly fits into small openings and guides effortlessly through compact inner workings of electronics and the products they create. Uses of the VJ-ADV within the electronic industry have included solder paste inspections, circuit board inspections and different methods of preventative maintenance.

In addition to those industries, the 2.8mm VJ-ADV has been used for inspections that fall into the "other" category. These "other" inspections range from inspecting the inside of golf club heads to looking inside 300 year old violins.

RF System Lab says the 2.8mm articulating video borescope has become a top-seller in the industries above and in many others that require a sub-4mm borescope such as oil and gas, chemical processing and manufacturing.

