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METROLOGY SERVICES™

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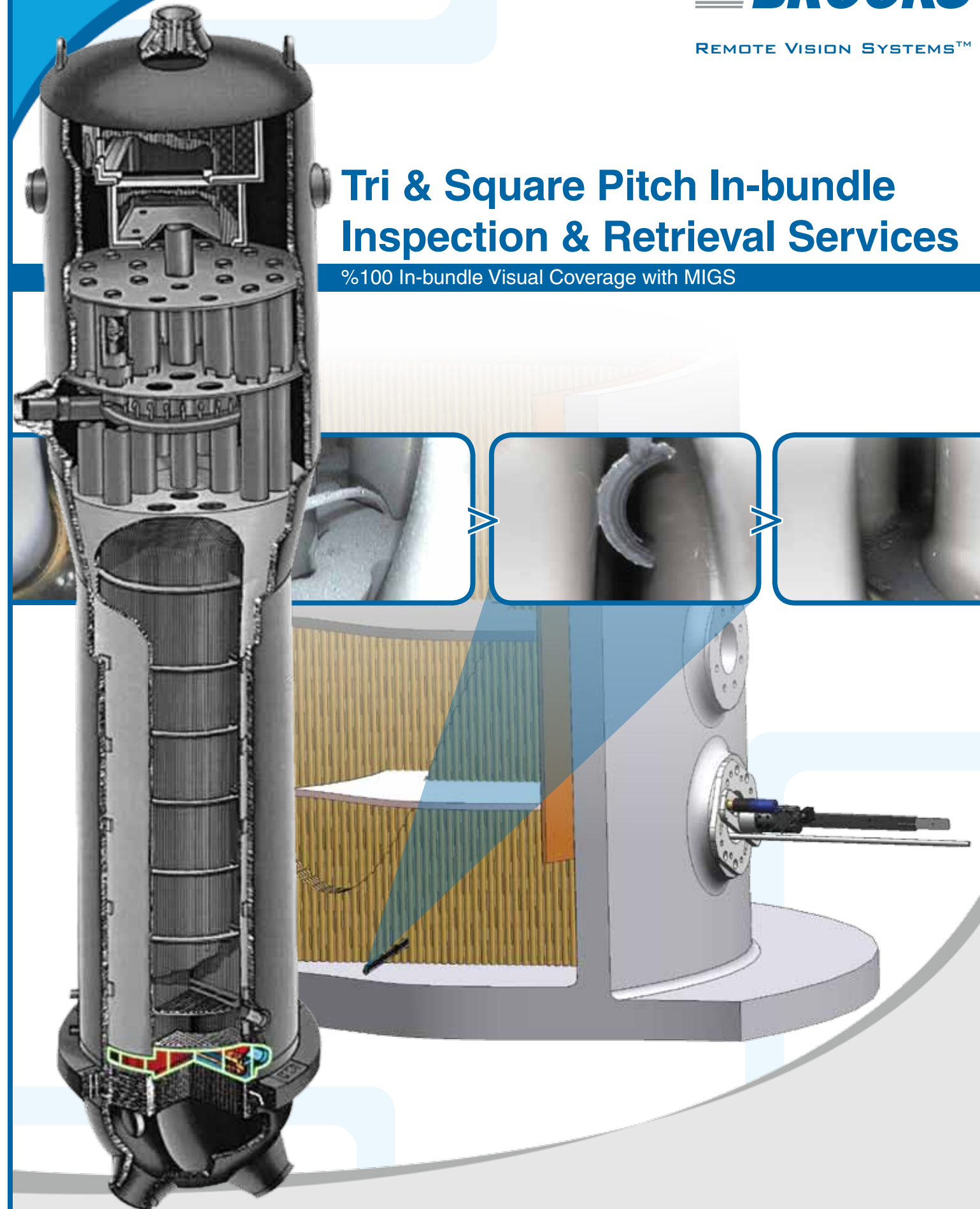
REMOTE VISION SYSTEMS™

REMOTE INSPECTION SERVICES™

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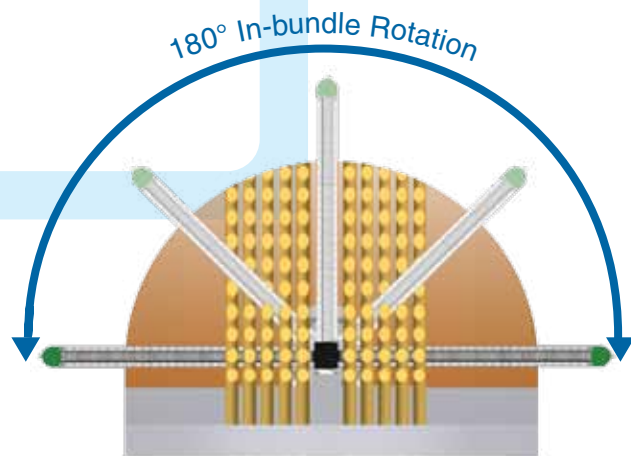
Tri & Square Pitch In-bundle Inspection & Retrieval Services

%100 In-bundle Visual Coverage with MIGS



100% Tri & Square Pitch In-Bundle Inspection & Retrieval Capabilities

Unique Capabilities Help Exceed ALARA Objectives



Faster, Safer Inspections!

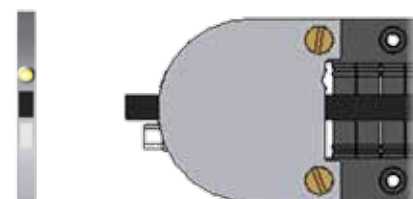
MIGS (Manual In-bundle Guidetube System) provides Brooks service personnel the freedom to maneuver 180° from the hot leg to the cold leg in-bundle region without removing the MIGS system or components resulting in:

- > Faster Inspection times with fewer tooling changes
- > Up to 50% reduction in radiation exposure
- > Reduced FME concerns
- > Rigid probe geometry for tubesheet and upper support plate inspections

Patented Technology With Industry Exclusive Capabilities

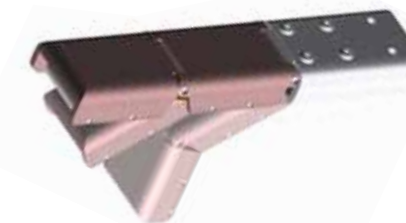
Ultra Slim Design

The MIGS system utilizes the BICS inspection probe to access inter-bundle areas. With an ultra slim profile of only 2.4mm (.094 in.), the BICS probe can penetrate the inter-bundle region of any steam generator model on the market today!



Versatile Articulating End Effector

A custom articulating end effector allows the MIGS system to accommodate the inspection of a wide variety of varying tube configurations. The end effector can position the BICS probe anywhere from 0° to 90° while maintaining full functionality and superb image quality.



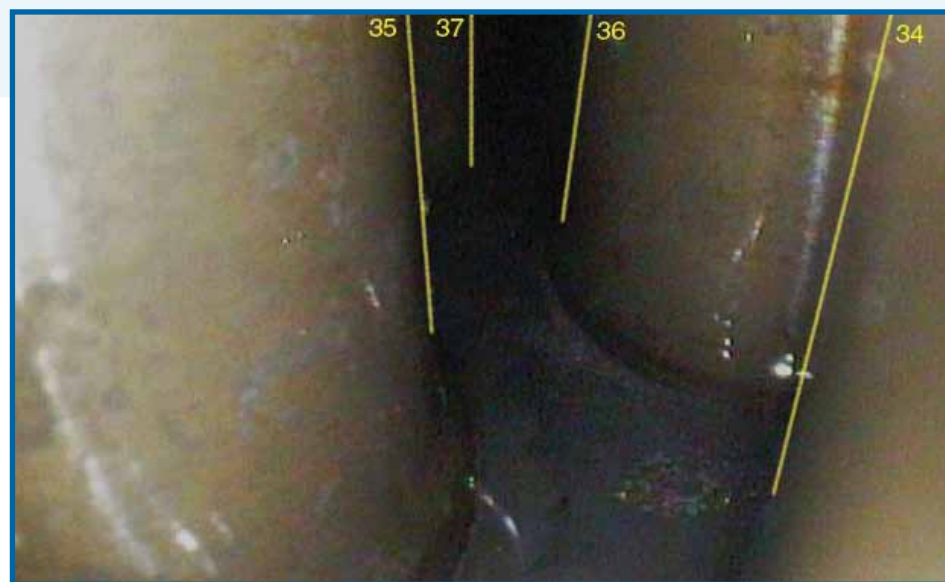
Repeatable Results...Time After Time

New Tube Counting Technology

Brooks has once again revolutionized in bundle inspection with the development of cutting edge tube counting technology for exclusive use with the Brooks MIGS inspection system.

Brooks tube counting technology decreases overall inspection times by removing the burden of tube miscounts and allows Brooks inspection technicians speed up retrieval efforts by pinpointing the exact location of foreign objects while flawlessly navigating through the in-bundle region to the desired destination.

Future developments will include dynamic inspection progress feedback, allowing you to view your inspection progress in real time!



MIGS Image Capture Results

Object Characterization Made Easy

The MIGS system high resolution inspection camera helps you define system conditions and characterize foreign objects with ease.

See More!

High quality image resolution and high powered lighting provide stunning imagery that lets you see up to four tubes deep into the in-bundle region

MIGS Features Overview

Flexible Armored Inspection Probe (BICS)

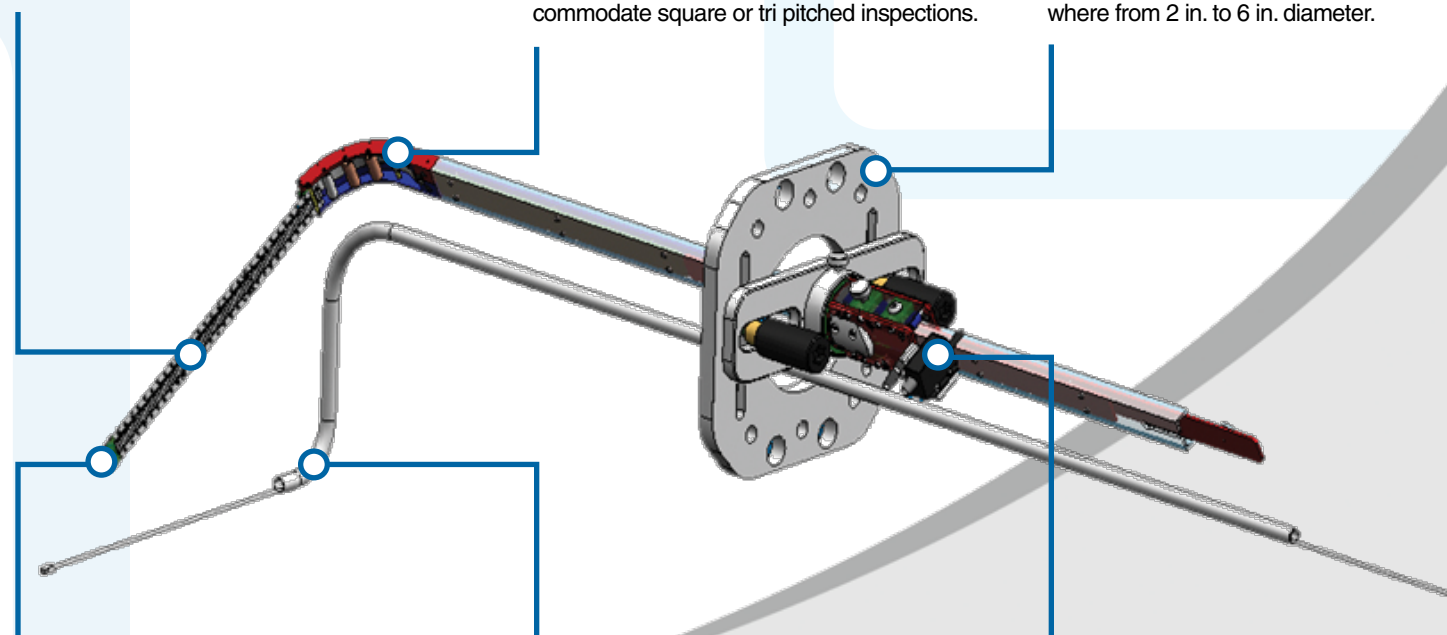
BICS (Brooks In-bundle Camera System) is constructed with a semi-rigid wand geometry enabling the probe to bend up to 95° for access to virtually all in bundle regions.

Custom End Effector

Brooks has customized the MIGS end effector for maximum in bundle coverage and precise column indexing. The MIGS end effector can position the BICS precisely at any angle to accommodate square or tri pitched inspections.

Universal Mounting Flange

Brooks has developed the universal mounting flange to accommodate a wide range of steam generator models. Mounting flanges can be adapted to fit inspection ports anywhere from 2 in. to 6 in. diameter.



High Resolution Color Camera with LED Lighting

The MIGS system uses the latest in imaging technology to bring you the highest quality in-bundle imagery available today. Images appear in full color and from any one position can see up to four tubes deep into the in bundle region, giving subject matter experts higher quality information to make better decisions.

Extra Retrieval Tooling Channel

Retrieval tooling larger than 2 mm in diameter can be fed directly through a separate guidetube placed below the armored inspection probe. This ensures separation of the retrieval tooling and the inspection wand so in bundle entangling never occurs.

360° Rotation Assembly

The MIGS system utilizes a 360° rotation assembly for all inspections. 360° rotational capabilities give our inspection teams the ability to switch inspection areas from the hot leg to the cold leg seamlessly, cutting down on equipment set-up time and reducing dose rates significantly.