

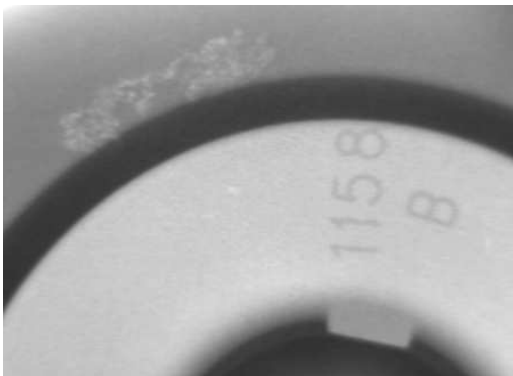
Microfocus Real-Time Radiography



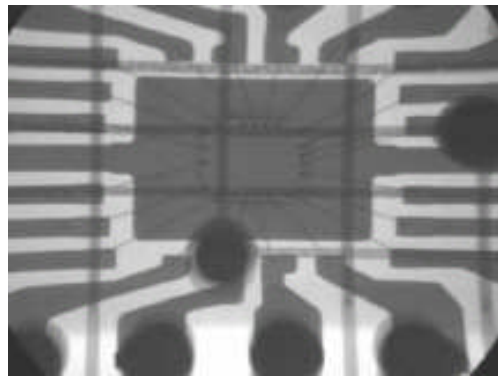
Fein Focus 100 kV Real Time System For Industrial Non-Destructive Inspection Testing

Designed to meet the needs of a wide range of low kV x-ray applications from miniature electronics to small metal castings, the real-time capability of these systems offer improved productivity and lower material costs over traditional methods of radiographic testing. By combining the performance of state-of-the-art x-ray equipment with advanced high resolution imaging components, these self-contained cabinet systems provide unique advantages in defect detection.

Porosity in image of automotive casting



Integrated Chip (very high resolution)



TSG

Technical Services Group, Inc.
Lawrenceville, Georgia

RT3A10 Series 3-Axis Fluoroscopic X-Ray Systems

In today's competitive markets, manufacturers are using new innovative materials, and applying the limits of manufacturing tolerances to traditional materials. Therefore, it is critical that inspection systems are able to accurately detect any deficiencies or improper assemblies. TSG addresses this challenge, for a broad spectrum of industrial applications, with the RT3A10 series of x-ray inspection systems. The real-time capability of these systems allows manipulation of the test specimen while viewing the x-ray image. TSG's systems offer advanced performance and exceptional flexibility in developing application solutions.

FEATURES

- Industrial quality fully shielded x-ray cabinet
- X-ray energy of 100 kV
- Rugged 3-axis industrial manipulator supports a variety of inspection applications
- Variable speed, joystick style manipulator controls
- High reliability with minimum service down-time for demanding industrial applications
- Flexible modular design can be configured to meet specific inspection requirements
- State-of-the-art high resolution imaging
- Radiation shielded viewing window
- Ergonomically designed operator controls
- Safety interlocks and warning lights
- Standard 19" rack-mount control console
- Enclosure interior lighting

SPECIFICATIONS

Standard x-ray cabinet dimensions:
Length 62"* Depth 32" Height 77"*
* includes imaging and warning light

Cabinet weight, (with manipulator):
100 kV 1245 lbs. (566 kg)

Manipulator range of motion:
X-axis 7 inches (178mm)
Y-axis 6 inches (152mm)
Z-axis 10 inches (254mm)

Maximum specimen weight capacity:
50 lb. (22 kg)

6" single field high-resolution image intensifier

X-ray focal-spot, kV, and mA specifications
specific to system model selected

AVAILABLE OPTIONS

- Remote controlled motorized intensifier shutter
- Video digital image processing system
- Studio grade S-VHS video recording

TSG's industrial x-ray systems include all required safety features, such as "X-Ray On" warning lights and C.D.R.H. required dual interlocks. The x-ray cabinets are manufactured to comply with radiation safety standards specified in 21-CFR-1020.40 federal requirements for 'Cabinet X-Ray Systems.' TSG systems include a full one-year parts and labor warranty, fob Lawrenceville, GA. The systems described in this brochure are real-time x-ray radiographic imaging systems designed to perform specimen inspections as defined by the user. Warning: these systems produce x-rays when operated, and are supplied to be operated by properly trained and authorized persons.

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