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Product
XT-1300 (JPEG)

Fully automatic x-ray inspection of automotive modules and complete function units

MatriX Technologies introduces the new automatic x-ray inspections system XT-1300 with universally configurable handling and conveyor system.

Feldkirchen, Nov 10th, 2009 – The MatriX XT-1300 x-ray system is the first fully automatic x-ray inspection system in the market with fast automatic loading and unloading, that was especially designed for completely encapsulated and high modules. The XT-1300 system closes the application slot between classical board inspection systems with limited device height and multiple axes systems for “big” test objects that can only be loaded manually in most cases. The flexible work piece holder and conveyor system can be configured to customer specification minimizing annoying changeover times for product changes. All process steps - including defect verification – are automated and engineered in a way so they can be as far as possible processed in parallel and therefore time optimized.

XT-1300 is equipped with the well-established MatriX Inspection and Image Processing Software Unit MIPS, an integrated solution for the whole inspection and verification process. Inspection programs are generated with the off-line programming software MIPS_Tune. The advanced algorithm library containing algorithms for standard joint inspection in addition disposes of algorithms for flexible printed circuit board joint inspection of flex connectors and wetted area measurements for special connector devices.

The standard XT-1300 is able to handle modules with a height of up to 300mm. This height can be optionally increased. The flexible work piece carrier can be easily adapted according to customer application to be loaded with one or more modules. The loading and unloading of the system is executed fully automatic via a conveyor circle system which allows parallel and therefore time-saving loading, inspection, verification and unloading.

With respect to the x-ray technique maintenance-free micro focus x-ray tubes up to 130kV are used. The digital detector setup can be optionally configured with 1kx1k to 2kx2k cameras. The inspection speed is about 3-4 images per second including the travel distance of the object.



About MatriX Technologies:

MatriX Technologies is a global supplier of innovative solutions for x-ray inspection and non-destructive testing (NDT). The MatriX systems are based on leading-edge x-ray and vision technology and ensure the fulfilment of customers' quality requirements. The MatriX Technologies product portfolio encompasses real-time failure analysis, including standardised systems for manual and automatic x-ray inspection, as well as customised, fully integrated inspection solutions with a broad range of x-ray applications. The MatriX client base includes leading manufacturers in the electronics and automotive industries. More information about the company you will find at www.m-xt.com

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