

DWFritz AMP 3100

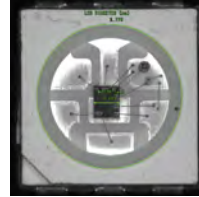
ADVANCED METROLOGY PLATFORM FOR HIGH VOLUME INSPECTION

Automated high speed inspection system ideal for high precision small parts

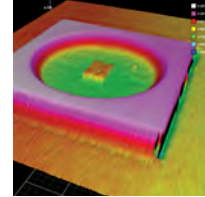
Designed for 100% inspection of high volume manufacturing, the AMP 3100 non-contact metrology platform features a cutting-edge machine vision system, lasers, custom lighting and advanced robotics.



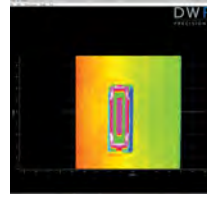
Multisensor System for Metrology and Inspection



Dimensions



Surface roughness



Defect detection

KEY BENEFITS

- Precision non-contact metrology with high repeatability
- Multisensor system captures multiple simultaneous measurements
- High throughput with processing speeds that exceed 4 parts per second
- Generates data for SPC, process optimization and integration with MES
- Low inspection cost per part
- Highly configurable and optimized for manufacturer's specific application

KEY FEATURES

- Metrology platform captures dimensional and angular measurements, and 3D profiles
- Cosmetic inspection for defects
- Color and gloss measurements
- Customizable platform for manufacturer's application, including:
 - 3D lasers and high resolution cameras
 - Multispectral lighting
 - Fixturing and material handling
 - Binning options
 - Pre- and post-metrology assembly and processing options, including laser marking
 - Inspection part programming

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Experience the Highs of the AMP 3100

HIGH PRECISION AND SPEED | HIGH CONFIGURABILITY | HIGH ROI

SPECIFICATIONS

Work volume	200 x 200 x 200 mm (L x W x H)
X-axis	0.7 to 1.0 m active [$\pm 1 \mu$ repeatability]
Y-axis	Per requirements [$\pm 1 \mu$ repeatability]
Z-axis	Per requirements [$\pm 1 \mu$ repeatability]
Payload	0-2 kg range
Pitch, roll, yaw	$\pm 5 \mu$ Radians
Metrology bridge	1100 mm to 1400 mm
Lighting	Custom strobe, coax, ring, color, hybrid
Lasers	DWFritz 3D laser modules DLM411 or DLM420
Cameras	5 MP, 21 MP, monochrome, color
Electrical service	208-240 VAC 50/60 Hz 35A, 1-Phase + GND
CDA/AIR service	1982 l/min [70 CFM] @ 0.6 MPa [90 psi]
System dimensions	236 x 99 x 204 cm (W x D x H)
System weight	2187 kg (4820 lbs)
System controllers	High performance industrial PC operator station with touch screen and secondary display screen
Options	<ul style="list-style-type: none">- Flexible input and output options (tray, conveyor, bin and process module interface)- Pre- and post-metrology assembly and processing options, such as adhesives, coatings and laser marking- Binning- 3D point cloud rendering



SMALL PARTS, BIG APPLICATIONS



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DWFRITZ®

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DWFritz Automation is a leading, global provider of high precision automation solutions for advanced high volume manufacturing. The company develops, designs, builds and supports engineered-to-order automation systems, specializing in high speed complex inspections to enhance product quality.