Specifications

Work	
Maximum measuring range	510 ㎜ × 610 ㎜
Maximum work piece size	610 ㎜ × 710 ㎜
Maximum work piece thickness	< 60 ㎜
Stage	
Travel	550 ㎜ × 650 ㎜ (Z: 60 ㎜)
Resolution	0.08 ㎛
Minimum display unit	0.1 ㎛
Traverse speed	< 150 ㎜ / sec
Positional Repeatability	±5 ㎛
Stage drive	Stepping motor (micro-step control)
View	
Camera	1,3M pixels / Color CAMERA
Magnification	Zoom lens 1× ～ 4× Low magnification: 40× ～ 160× Standard magnification: 80× ～ 320×
View range Scale	Low magnification: about 8.0 ㎜ × 6.4 ㎜ ～ 2.0 ㎜ × 1.6 ㎜ Standard magnification: about 4.0 ㎜ × 3.2 ㎜ ～ 1.0 ㎜ × 0.8 ㎜
Illumination	Stage, Coaxial light, Ring
Machine	
Dimensions (W×L×H)	1130 ㎜ × 1768 ㎜ × 1179 ㎜
Weight	700 kg
Power supply	100 V
Power consumption	2 kVA

※Product specifications are subject to change without prior notice due to improvements and developments.

Stella Corporation

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ST-600M

Measuring system with ST-600

X-Y Stage machining for measuring PCB

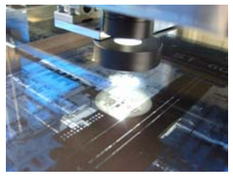
Stella Corporation

Stella's **ST-600M**
High Performance 2D-coordinate Measuring System

ST-600M provides ways of geometric measuring functions.
ST-600M is precise and easy in operation.
ST-600M Vector Data, based on the captured image is measured and stored for easy retrieval on HD.

Zoom Lens

The high quality, low distance factor zoom lens, plus the even uniformity of the theater lighting system is enabling the measuring systems video capturing device to provide a clear and undistorted Raster image from all area of interests.



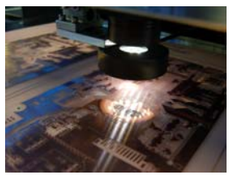
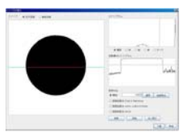


Image-processing function

Software image processing allows "fuzzy" edges to be acquired.

Screen

Two-value function



Two-value setting screen

Motion Controller

The high speed motion controller of Stella's proprietary Micro stepping design is powering all axis and provides a Step resolution smaller as 0.1 um.

Software

The measuring software is controlled by Stella's proprietary CAD/CAM system StellaVision.
StellaVision integrates the functions selected in a single streamlined and seamless fashion for the ST600M. Output data will be provided in selected 3rd party formats, supported by Stella, such as Gerber, DXF and others.

Visual Measuring

Various Measuring Methods are:

- Line width
- Distances between 2 or 3 points
- Distances for multiple points
- Diameter length
- Arc
- Angle
- Other geometric figures

Several Positioning Function

Supporting measuring methods i.e. relative and absolute references.

Output Formats

Results of measurement functions are delivered for use in

- CAD data files format
- CSV format (comma separated values)
- Printed in decimal form

CAD Data Function

The image of the DUT is captured and patched together for a complete raster image.
PolyLine functions generate together with coordinates, output data in machine format, which in turn are basic CAD-data sets.
Overlaying the 2 Data sets in the display generates a visual inspection station.
These functions do provide a rudimentary and basic reverse engineering possibility, if original or source files are lost.

No.	測定種別	設計値	実測値	差分	コ...
1	線幅測定	0.15	0.15	0.00	
2	線幅測定	0.15	0.15	0.00	
3	円測定	120.85 , 114.04 1.40	120.85 , 113.90 1.40	0.00 , -0.13 ...	
4	円測定	118.35 , 114.04 1.40	118.35 , 113.91 1.40	0.00 , -0.13 ...	

Automatic Focus Function

ST600M provides Graphics Automatic Focus Function. The operator specifies a sampling area and inside position to focus upon.