

Pioneer of Soft X-ray
SOFTEX[®]

MICRO FOCUS

X-RAY TV INSPECTION SYSTEM

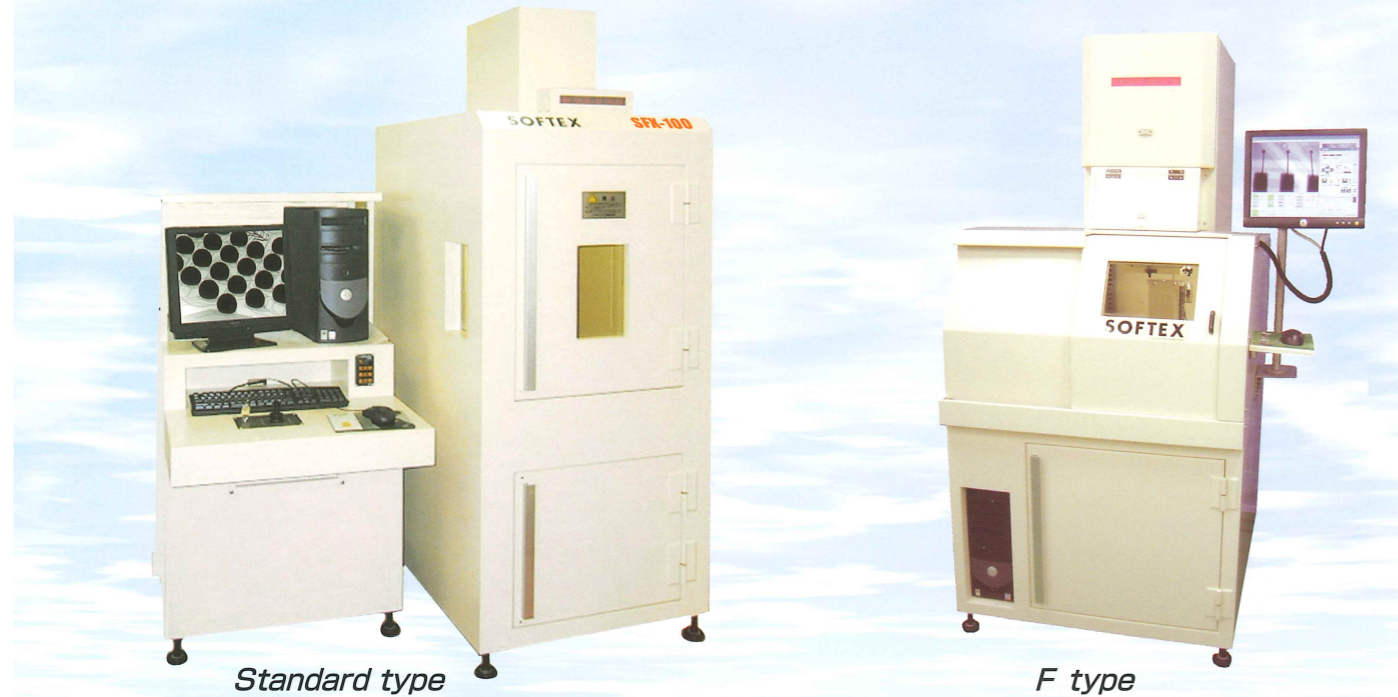


MODEL SFX SERIES

SOFTEX

This is the top of the line X-ray inspection apparatus that equips following sophisticated features in the compact body.

1. The coupling of the world smallest micro-focus X-ray generator and high sensitive soft X-ray I.I. camera realize high-magnification, high resolution and high density resolution.
2. Sharp and clear image of minute defects in the BGA, CSP, and electric devices, voids and cracks in plastic packages can be provided in real time.

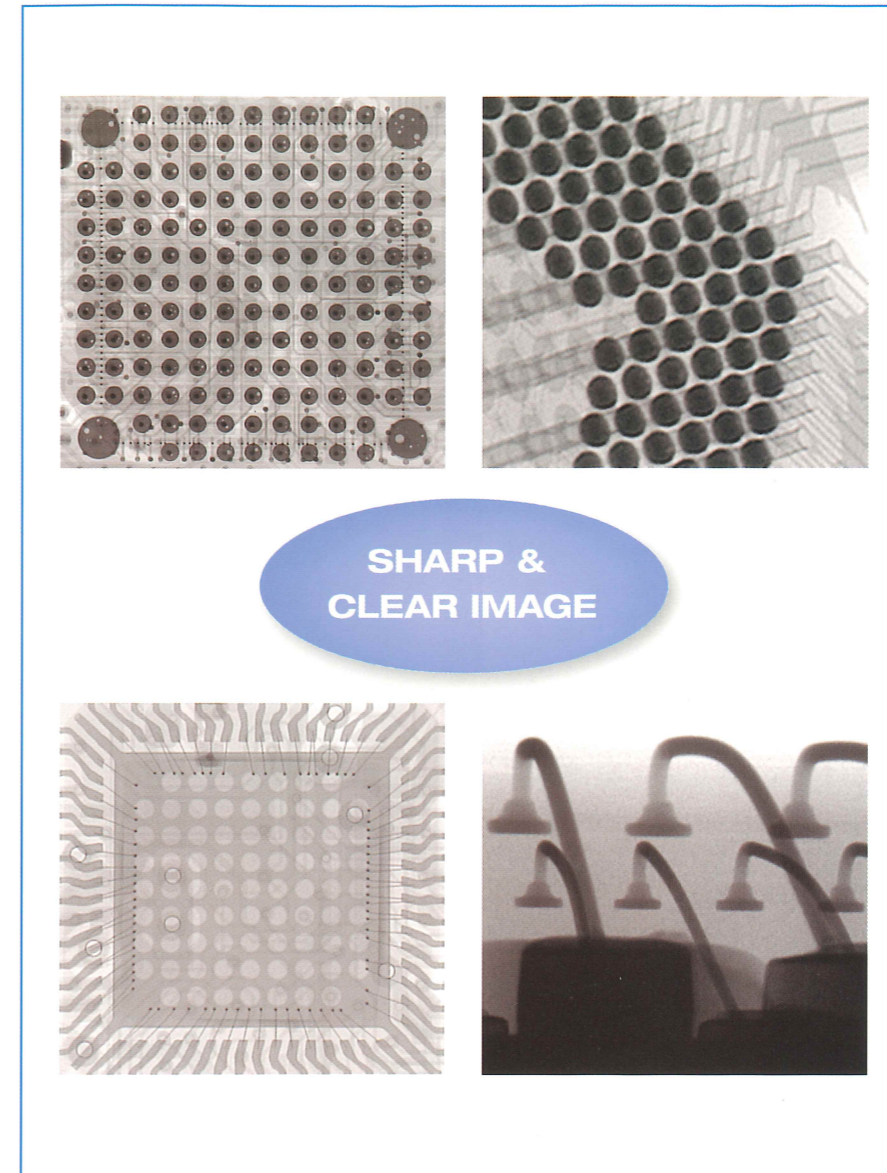
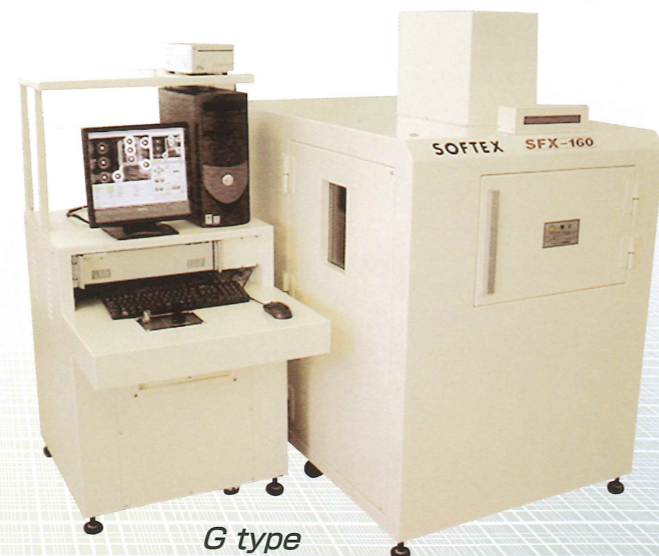


FEATURES

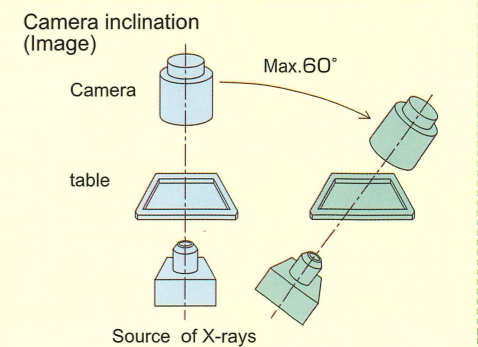
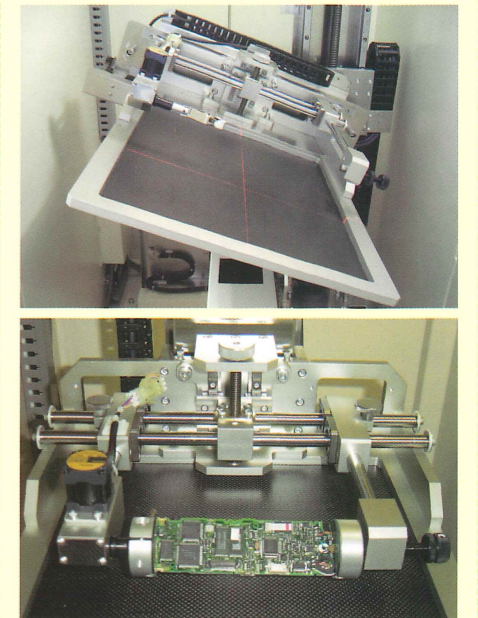
- Perfect X-ray proof cabinet and safe control system for safety operation. X-ray leakage is less than $1\mu\text{Sv/h}$.
- Auto aging function provides the best operational condition.
- High quality micro focus X-ray generator is equipped to provide sharp and clear image under both low and high magnification.
- High sensitive X-ray I.I. camera is equipped to provide high contrast image.
- High-stabilized table driving system.
- All operations are controlled by PC.
- Our software is equipped the functions which suitable for fluoroscopy, such as measurement, image improvement processing, inching and teaching index and image saving.

■ SFX series type

TYPE	90	100	130	150	160
standard type	●	●	●	●	—
F type	●	●	—	—	—
G type	—	—	—	—	●



OPTION
If you use the ROLL MECHANISM and TABLE SLANT SYSTEM as option, you can get three-dimensional images.



SPECIFICATION

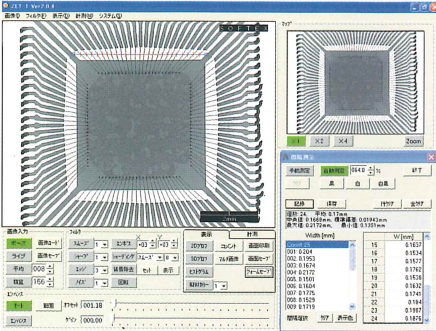
MODEL	SFX-90	SFX-100	SFX-130	SFX-150	SFX-160G
Input	AC100V-240V, 50/60Hz *note.1				
Power consumption	approx. 1kVA				
Max tube voltage	90kV	100kV	130kV	150kV	160kV
Max tube current	0.2mA	0.25mA	0.3mA	0.5mA	0.2mA
Focus size	5 μm	5 μm	8 μm	5 μm	1 μm
Max magnification	approx. $\times 600$	approx. $\times 600$	approx. $\times 500$	approx. $\times 550$	approx. $\times 1800$
Camera	Soft X-ray I.I.+CCD camera				
Total resolution	More than 33.3Lp/mm				
Drive confine(X-Y table)	250 \times 330mm *note.2				
Drive confine(Z table)	300mm *note.3				
Drive confine (Camera up & down)	Option: 400mm *note.3				
X-ray leakage	Less than 1 $\mu\text{Sv/h}$				

note.1 : It could be three phase / 200V by the specification. **note.2** : 400 \times 400, 600 \times 400 can be available.
note.3 : Camera Up & Down 600mm is available, in such case Z table drive is 200mm.

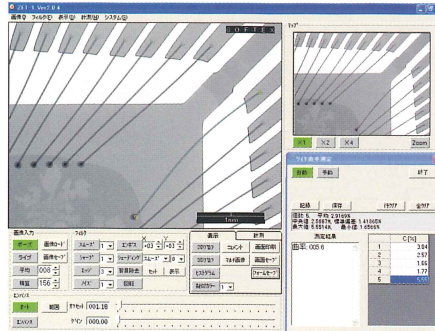
MEASUREMENT IMAGE

This software can be measured percentage of voids area of semiconductor I.C, wire pitch, wire sweep and BGA solder ball area on the X-ray TV monitor.

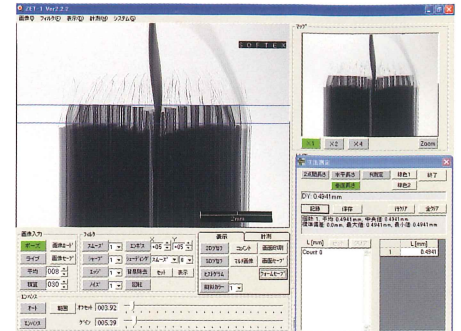
Measuring result are converted automatically into actual dimensions coupled with height of the Z axis of working stage, and displayed on the monitor with statistics all of which can be filled.



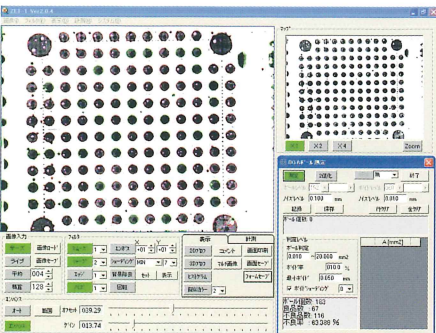
Wire pitch measurement



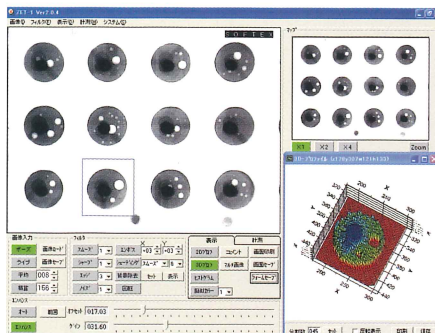
Wire sweep measurement



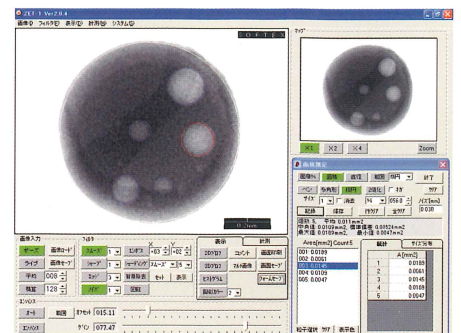
Length measurement



BGA solder ball measurement



3D image profiling



Area measurement

CUSTOMER SUPPORT

You can consult anything with SOFTEX staff who specialized in the apparatus. We have also "System laboratory service", where we provide you trial and training.



※Published specifications and product appearance are subject to change without notice.

We are flexible to make special designed machine. FOR EXSAMPLE...

- Enlarged work table
- Table tilting mechanism
- Computerized X-ray control
- Computerized table control
- Fully automatic inline system

SOFTEX CO., LTD.

5-19-18 HIGASHI KASHIWAGAYA, EBINA-CITY,
KANAGAWA PREF, 243-0401, JAPAN
TEL : 81-46-232-2571
FAX : 81-46-232-1179
E-mail : sales@softex-kk.co.jp
URL : http://www.softex-kk.co.jp

