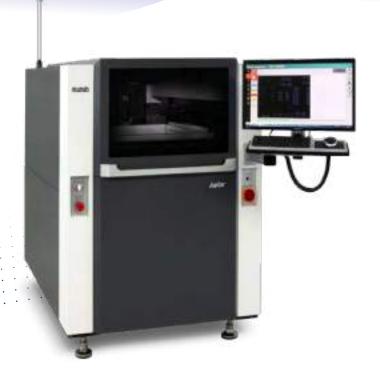
**Precise inspection** of defects including lack of solder, misregistration, misalignment, and openings.



## METAL STENCIL MASK INSPECTION SYSTEM

- ACCURATE INSPECTION 🗸
- DATA MANAGEMENT & EDITING <
  - HISTORY MANAGEMENT 🗸



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#### **TENSION**

Our Metal Stencil Mask Inspection System gets precise and reliable measurement results by adapting PROTEC's tension gauges series, namely STG-75M/75D. It's ability to provide certified test reports is unmatched!



The original design and still the best! The most trusted tension gauge in the screen printing industry. Its long-established success is proof of excellent reliability and accuracy.



#### STG-75M

#### ANALOG TYPE | DISPLAY: METRIC SCALE ONLY

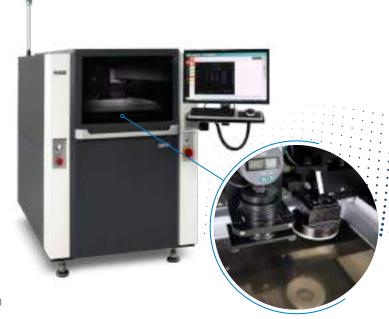
The **STG-75M** is an extremely versatile gauge with wide range of measurement scalability. Ideal for high-tension, largescale material with highly accurate results!



#### STG-75D

#### DIGITAL TYPE | DISPLAY: METRIC SCALE ONLY

The **STG-75D** is an extremely versatile gauge with wide range of measurement scalability. Unlike the STG-75M, it can provide a permanent record of all tension measurements, and various data operations.



	AUT0				MANUAL						
	顷	235	057	154	0.60		123	3,55	CH	654	63
-	協	035	057	154	080		15	355	(5)	(5)	65
*	122	533	037	174	039		13	9,55	(37	.03	660
4	133	035	057	156	030		120	334	0.55	134	(3)
5	15	016	-057	154	0.50		155	355	157	48	460
18	LSS	035	057	154	0,60		125	3,55	636	054	683
T I	顶	035	057	154	0,63		135	354	157	13	160
1	155	066	057	150	0,50		155	154	(55	(5)	(6)
*	135	055	657	154	039		12	125	(5)	(5)	(5
9	150	ăŭ.	.605	146	040		14	150	152	10	190
41	IN	UZO	1/2	100	010	1	123	100	835	104	10.
1	155	036	097	154	080		155	0.55	(57	0.54	683
- 6	līi.	015	057	156	010		(55	354	(55	13	(6)
8	155	035	09	154	0.80		455	155	157	134	660
+	155	039	097	154	010		155	935	137	654	660
8	155	035	057	改	0.53		155	954	(30	755	660
- 6	155	035	057	. 154	0.00		15	354	156	654	(6)
4	15	055	057	150	0,63		155	\$55	156	(5	683
4	15	035	057	156	0,0		135	0.55	156	(5)	(6)
- 8	155	035	09	156	0.60		155	9.55	(3)	45	(6)
3	150	015	-057	156	610		455	9.55	157	154	(6)
MIN	Lii	035	057	154	0.59		155	154	6	(54	45
MAX	155	Q\$8	0.57	125	CAR		156	335	EST.	(3)	6BC
MAX-MIN	1	A	N	10	031		121	321	620	(C)	601
AVERAGE	15	086	057	15/14	1998		682	1501	13000	656	0.987
AVERAGE GA AUTO-MANUAL		1000	00001	188	188	6000					

# SQUEEGEE BLADE INSPECTION (OPTION)

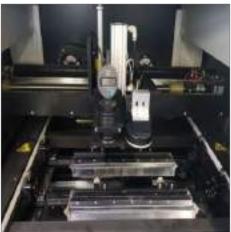
The Metal Stencil Mask Inspection System performs a rigorous inspection of the squeegee blade. It allows the user to manage its data and history.

Fast Inspection ✓

Manage Data ✓

Manage History ✓



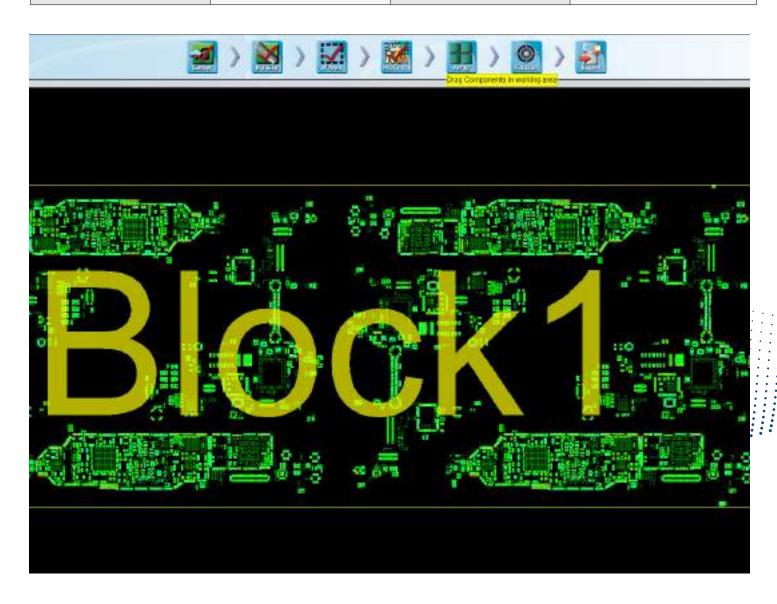




## **GERBER**

The Metal Stencil Mask Inspection System performs a rigorous inspection of squeegee blade state, allowing the user to manage the data and history.

Easy Convertion 🗸 Fast Making 🗸 Effective Compatibility 🗸 Powerful Editing 🗸



## **FUNCTION**

The Metal Stencil Mask Inspection System allows users to compare and check the PCB Gerber data, with the Mask Gerber data.



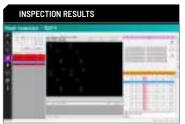
#### PIN HOLE

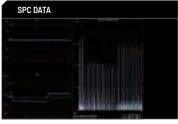
The system performs an excellent inspection of the micro pin hole (option), namely the semi-conductor, SATURN.



#### **MANAGEMENT**

With exceptional performance, this Metal Stencil Mask Inspector manages the history of variable inspection data and SPC function.









VERIFICATION

STATISTICS AND ARRANGEMENT

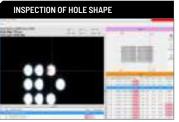
DATA MANAGEMENT & MES INTERFACE

2D & 3D AVAILABLE

## **DEFECTS**

Inspects mask open areas and micro burr around hole. Capable of measuring hole size.









INSPECTION OF BURR

INSPECTION OF HOLE SHAPE

INSPECTION OF HOLE AREA

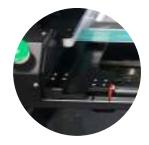
INSPECTION OF CLOGGED SOLDER & FLUX

#### **STRUCTURE**

With a strong performing liner motor, and adapting surface plate (stone), the inspection system guarantees highly accurate solutions for variable size masks.







PRECISION PLATE

LINEAR MOTOR

MASK SIZE

## **SPECIFICATIONS**

	ITEM	SMT (MODEL: JUPITER)	SEMICONDUCTOR (MODEL: SATURN)		
	Size of the Mask Hole	X, Y size of the Mask Hole	X, Y size of the Mask Hole		
	Off-Set	Inspect the Gerber Data base off-set	Inspect the Gerber Data base off-set		
INSPECTION ITEMS	Particle	Inside the Gerber Area (40μm x 40μm)	Inside the Gerber Area (20 $\mu$ m x 20 $\mu$ m)		
	Tension Gauge	Range: 0.4~2.9mm (8~50N/cm) , Accuracy: 0.01mm (1N/cm)	Range: 0.4~2.9mm (8~50N/cm) , Accuracy: 0.01mm (1N/cm)		
	Pin Hole	Option	Min Size 15~20μm		
	Min. component	0402mm Component	0201mm/ 01005mm Component		
	Inspection Speed	2.0 Sec/ FOV	2.0 Sec/ FOV		
	Camera	10 Mega Tele-centric Lens	16 Mega Tele-centric Lens		
	Lens Resolution	5.5 <i>µ</i> m	2.2 <i>µ</i> m		
	Moving Method	Linear Motor (Camera X axis, Mask Y axis), Servo Motor (Upper side X axis illumination)	Linear Motor (Camera X axis, Mask Y axis), Servo Motor (Upper side X axis illumination) Synchronization Control		
MACHINE SPECIFICATION	Area Inspect Accuracy	±4% (@ Opening size 250 µm)	±2% (@ Opening size 150 µm)		
	Position Accuracy	10 <i>ш</i> т	3 <u>µ</u> m		
	Linear Motor Accuracy	1 <u>u</u> m (Linear Motor)	1 <u>u</u> m (Linear Motor)		
	Frame Size	420 x 420mm~736 x 736mm	420 x 420mm~650 x 550mm		
	Inspection Size	500 x 500mm (660 x 500mm 옵션)	350 x 350mm		
	Teaching Program	ePM	ePM		