



DIGITAL INDICATE METAL MASK TENSION GAUGE

PROTEC
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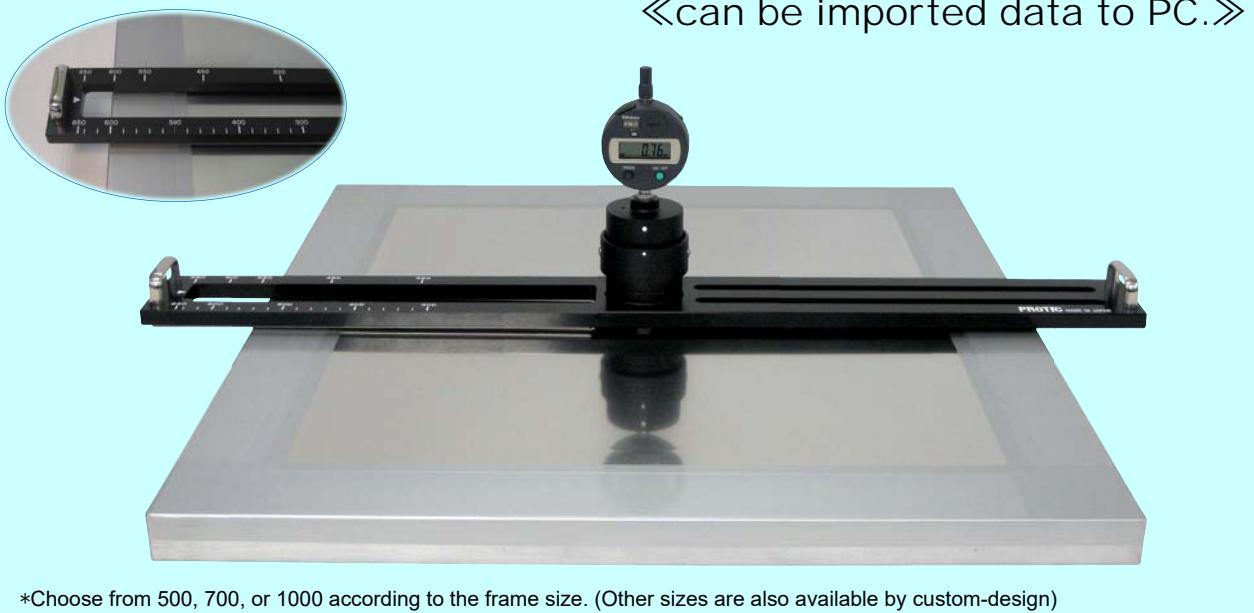
MODEL MTG-08A

Have you had any doubt on tension measurement of metal masks?
We can solve that question.

Long-awaited new tension gauge for metal masks is now on sale!

PROTEC, with almost 100% share of tension gauges for screen masks, provide a new tension gauge with confidence that is exclusively designed for metal masks.

«can be imported data to PC.»



*Choose from 500, 700, or 1000 according to the frame size. (Other sizes are also available by custom-design)

Conventionally, metal mask was measured its tension by screen mask tension gauges such as our STG-75 and STG-80. STG series, however, have supporting points positioned in the metal parts. Different from screens, metal hardness caused a major impact, and we could not get precise measurement. This new MTG-08A is an ideal tension gauge for whole span of metal masks, as it employs its supporting point outside of metal masks (frame). As well as STG series, MTG-08A is handy and easy to use, featuring calibration for checking measurement point as standard equipment. Take this opportunity to try this new MTG-08A designed for metal masks

■ Main specifications

Subject	model	MTG-08A-500	MTG-08A-700	MTG-08A-1000
Usage		All metal masks		
Display		Digital display		
Measurement range		0.00mm~2.50mm		
Data output		With output terminal		
Directionality of measurement		Yes		
Adaptation frame size (the external form)	320~480mm	320~680mm	320~980mm	
Measurement load		500g		
Form of measuring head		Semicircle		
Power source		One silver oxide battery		
Weight (g)	2,100	2,300	2,600	
Option	Printer DP-1VA, connecting cable			



Option for digital type: Printer

* Specifications and design details may be subject to change.

Manufacturer:

PROTEC
ENGINEERING

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METAL MASK TENSION GAUGE

Introduction of MTG-08A

【1.Preface】

In a screen mask tension gauge "STG-75", "STG-80", the tension of a metal mask was not able to be measured with sufficient accuracy. Therefore, in the substrate mounting industry, it was years of subject to manage the tension of a metal mask appropriately.

In order to solve this, we developed the metal mask tension gauge "MTG-08A" lately.

【2.Principle of MTG-08A】

The STG series for screen masks(STG-75, STG-80)has been used also for tension measurement of the conventional metal mask.

However, since the fulcrum portion at the time of measurement was located in a metal in the case of STG series(Fig.1), the influence of gauge weight and the influence of metal hardness were great, and an exact tension value was not acquired.

At MTG-08A only for a metal mask, tension measurement with the ideal whole mask was attained by putting a fulcrum on the mask outside(frame portion).(Fig.2)

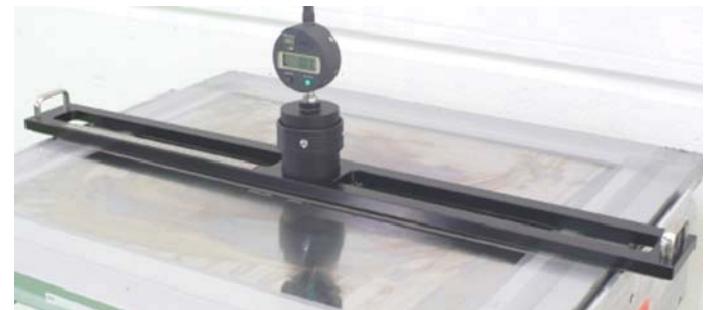


Fig.1

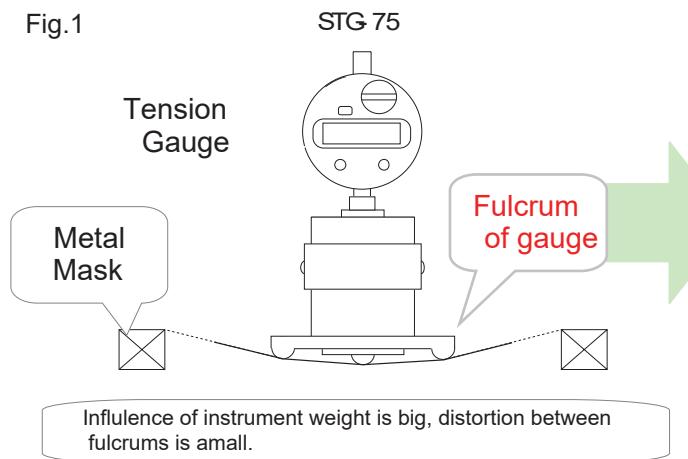
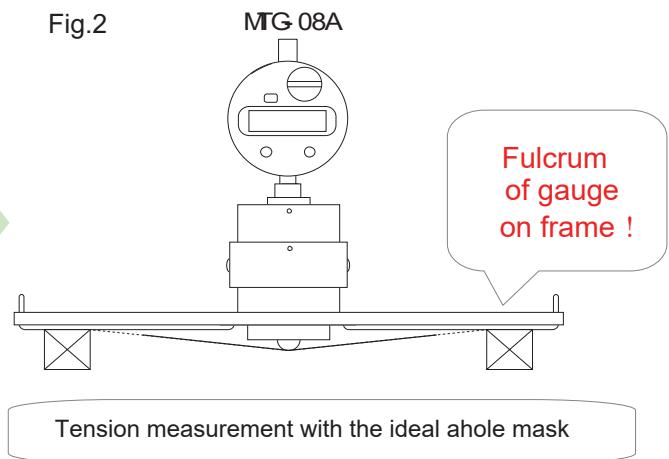


Fig.2

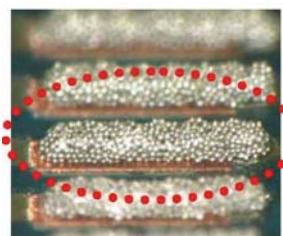


【3.Infulence of Tension】

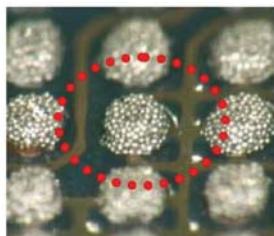
A metal mask tension shows how much printing nature is infulenced.

MTG Tension 0.85mm

0.4P Opening 0.18mm



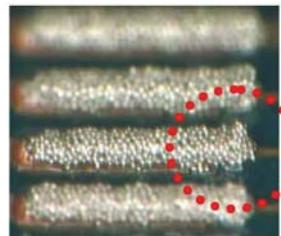
0.5P Opening 0.3□
(Corner R)



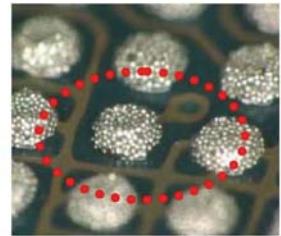
It is intimatery transferred
by opening form.

MTG Tension 1.15mm

0.4P Opening 0.18mm



0.5P Opening 0.3□
(Corner R)



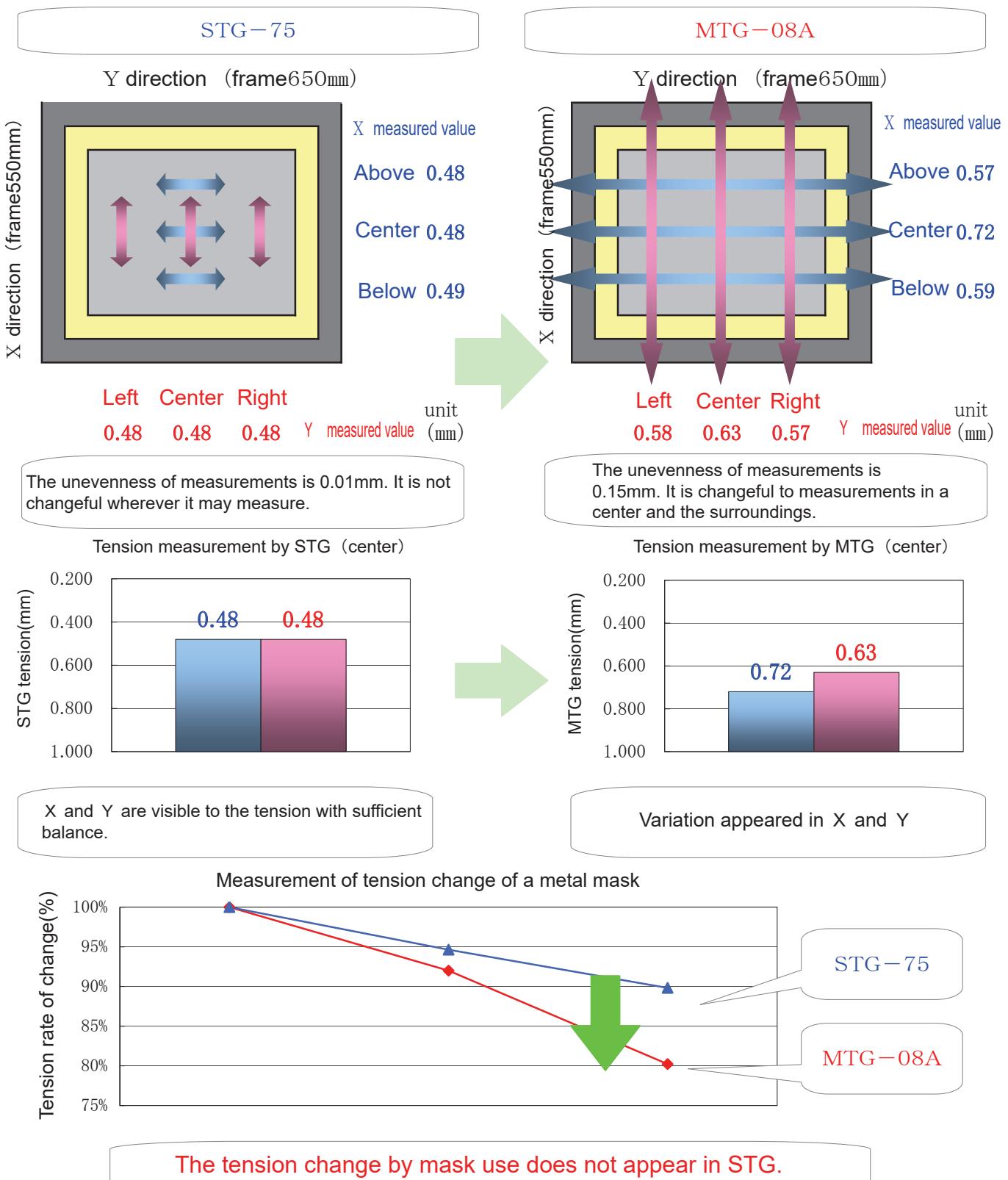
The part it created bitter feelings or
became depressed is seen, and printing
nature is getting worse clearly.

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Introduction of MTG-08A

【4. Comparison of MTG and STG】

The same metal mask was measured by STG-75 and MTG-08A. It is comparison of the result.



As mentioned above, by utilizing the metal mask tension gauge, it precedes with the industry and can manage masks original with you.

We think that this metal mask tension management leads to the improvement in the printing yield and the printing quality.