



OLED MASK Assembly and Measurement System



TLS-MW520

Functions:

For OLED high precision metal mask welding and measurement, with 4 functions:

- Auto tension
- Auto laser welding
- High precision measurement
- Auto shape measurement

With double work place, when one work place is for welding, the other can load work piece at the same time. With this we can achieve high throughput.

Characteristics:

- 1、 **High performance welding laser source:** high performance welding laser source, with fiber for laser transmission, excellent spot quality, high stability.
- 2、 **High-precision Motion System:** The support part of the machine is made of natural granite, and the motion system adopts gantry structure, so that the machine has high precision and excellent stability. The cutting machine adopts high precision optical encoder and special high precision linear guide with high rigidity, which eliminates the limitations of traditional rotary servo motor and ballscrew, such as rigid insufficiency, backlash and deadband, etc. The cutting machine has higher speed and accuracy. The design of lifetime use of the key components reduces maintenance cost.
- 3、 **Cable System:** The cable system has long working life, high reliability and excellent EMC, and it solves the main problems of traditional cable system such as poor EMC, running noise, dust and wear, etc.
- 4、 **Autofocus Function:** Automatically focus and no adjustment necessary during processing.
- 5、 **Software:** professional software for laser welding process Proj3200.
- 6、 **High throughput:** can finish one piece within 20 minutes.

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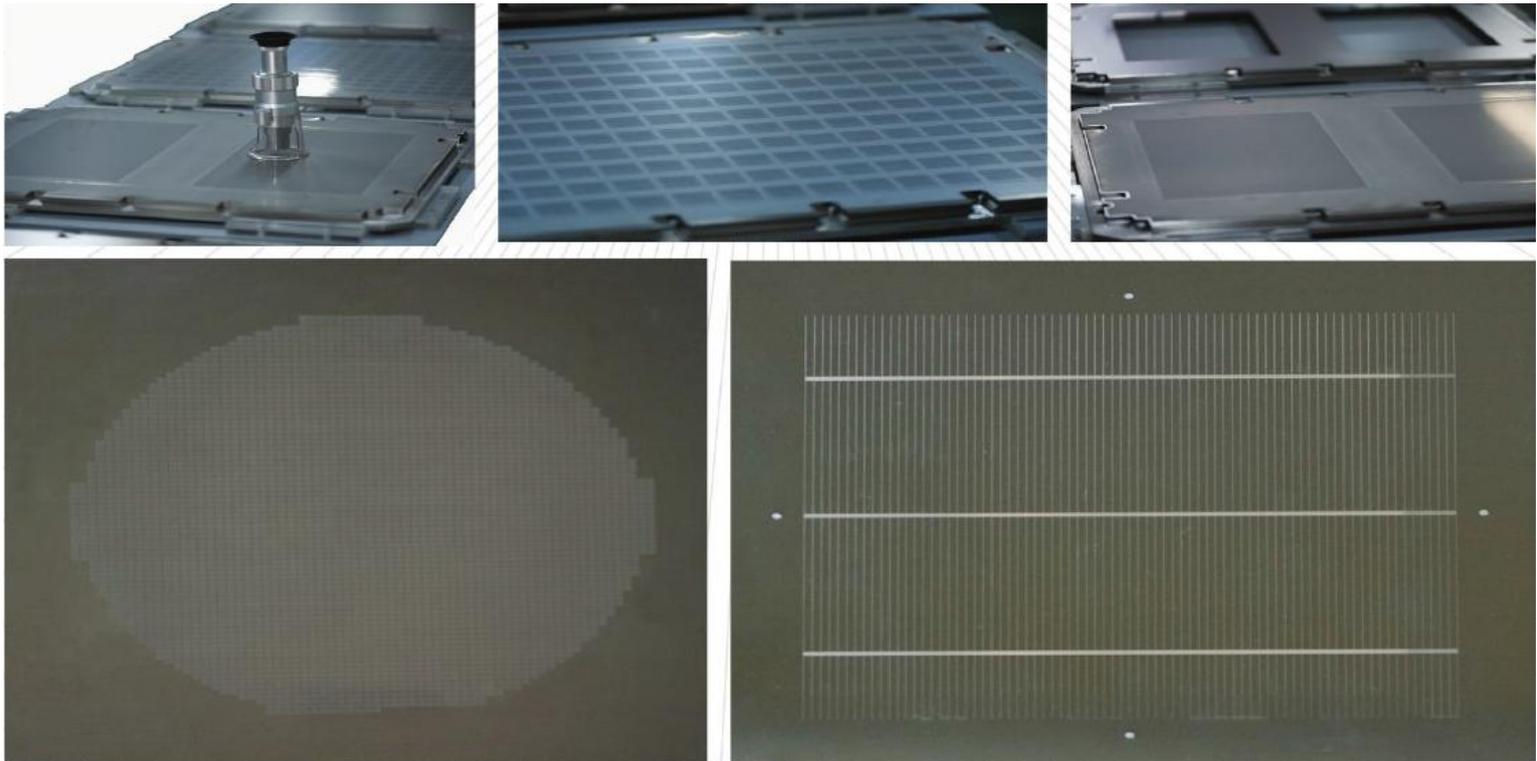
Application Range:

- OLED high precision metal mask auto tension, auto welding ,precision measurement, auto shape measurement.

Specification: (3Sigma)

Model	TLS-MW520
Granite	3000mm×950mm
Sheet thickness range	0.05mm~0.15mm
Welding area	420mm×520mm
Material(sheet)	Invar36
Shape measurement	8μm
Measurement Accuracy	±5μm
Location accuracy(X/Y/Y1)	±3μm
Repeatability(X/Y/Y1)	±1μm
X stroke	500mm
Y stroke	700mm
Y1 stroke	1000mm
Z stroke	30mm
Input	USB、 Ethernet
Operating temperature	20±3°C
Operating humidity	10%~50%RH
Input voltage	220VAC±10%, 20A, 50/60Hz, single phase
Power supply	2.5KW
Machine size(LxWxH)	3200mm×1600mm×2110mm
Weight	5500Kg
Origin	China

Photos:



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