

## Single Head LCD Repair Bonding Machine



### Single Head

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**Demo video:** <https://youtu.be/OeMWBkEInj8>

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## **Part 1: MD-880SH Specification**

### **Single Head Manual Platform Automatic Pressure**

**1) Equipment Model Number:**

MD-880SH (Single Head)

**2) Device Description:**

Repair screen machine / Bonding machine

**3) Device Uses:**

FPC、COF、TAB、LCD Panel and PCB combination bonding

**4) Applicable LCD panel specifications:**

15"-65"

**5) Applicable LCD panel thickness:**

0.3MM-1.1MM [Single glass]

**6) Bonding IC number:**

Multiple / Panel Can be set

**7) Bind direction:**

X or Y Indirection

**8) Bonding IC size:**

Replaceable blade according to IC specifications (The original machine is equipped 50(L)\*1.4(W)\*10(H) mm head)

**9) Device processing time:**

TFT, 3.8S/chip

**10) Production Beats:**

TAB, 100 pcs/H

**11) Bonding Accuracy:**

Within  $\pm 1.5\mu\text{m}$  (support 4K screen)

**12) Highest positioning accuracy setting:**

$\pm 0.5\mu\text{m}$  (Currently domestic the highest index)

**13) Equipment requirements the work environment:**

Clean, No dust, Clean room

**14) Supply Pressure:**

0.5~0.7Mpa (Dry air source)

**15) Power Supply:**

AC 220V  $\pm 10\%$ , 50HZ, 1200W

**16) Cylinder Device:**

Japan SMC original thin cylinder MXS20-75/MXS20-100

**17) Heating Type:**

Pulse (rapid heating / cooling and auxiliary cooling function)

**18) PID Temperature Control System:**

Brand: Yamatake (C36TV0UA1200 model)

Adjustable heating curve Duty Cycle setting type

The peak temperature: within  $\pm 2$  degrees Celsius

Room temperature time to 180 degrees the response time within 2-3 seconds

**19) Hot pressing head:**

Materials: Japan Titanium

Origin: United States

Head Size: 50(L)\*1.4(W)\*10(H) mm

Plane precision (hot press side):0.001mm

Plane thickness 0.5 (Reserved 3 times grinding)

**20) Thermocouple Type:**

K type    Original US OMEGA wire

**21) Industrial control units / Programmer:**

Import Panasonic PLC FX—C14T

**22) Image unit:**

Panasonic image processing system

COF counterpoint: down counterpoint

PCB counterpoint: have

Number of lenses: 2

Microscopy: 30-120 Continuous zoom

COF Display: 19-inch HD X2

PCB counterpoint the display: have

Upper light source: have

Down light source: have

**23) COF trimming unit :**

Origin: Taiwan

Rail Type: U-rail (2056 high)

Accuracy: 0.01

Adjustable direction: X/Y/R

R Itinerary: Coarse 360 degrees, fine tuning +/- 5 degrees

**24) COF Fixture :**

COF mechanical clamping type, Z tilt radius micrometer trimming

**25) Lens spinner unit:**

Control mode: X / Y / Z micrometer control

Focus Adjustment: Manually adjust the focus

**26) Position detection: None**

**27) Silicone / Teflon:**

Manual switching position

**28) LCD stage (platform):**

Manual sliding or fixed optional, automatic stage can be customized

**29) Alarm device:**

Pressure abnormal/ temperature anomalies / thermocouple abnormal / action abnormal

**30) Hot press head counterpoint:**

Cylinder stop can be set at any position in the vertical direction

**31) Control mode:**

Touch screen + button operation      Using Taiwan's Wei Lun touch screen dual-core

**32) Parameter setting:**

According to the need to set up Store multiple sets of hot pressing parameters

**33) Rated voltage:**

180-220 (customizable 110V)

**34) Peak power:**

400-1100W (Supports 68X1.5X10 lengthened tool bit)

**35) Maximum power:**

1100W

**36) Actual power:**

580W

**37) Body size:**

1800X1200x1520 mm (L\*W\*H)

**38) Machine weight:**




300KG

Remark: MD-880SH , is our company in the R&D process , according to maintenance staff tailored high-end products , machine not only in the accuracy of the temperature and the mechanical accuracy do the precision design , the procedures also increases the glass and circuit board parameters direct selected function , working pressure automatically switch , greatly facilitate the technical staff selected the parameters , increased the tool bit preheating function , to ensure that the machine at any temperature difference can ensure heating rate and temperature accuracy , the bonding effect reached factory-class level , high bonding excellent rate、 low repair rate , this machine is the maintenance and after-sales staff preferred the classic model.

## Part 2: Accessories List

**These accessories will send with the machine as gift.**

**Almost includes all tools and materials needed by bonding process.**

No	Name	Picture	Model No.	Quantity	Unit	Specification
1	ACF Anisotropic Conductive Film		AC-7206U-18	1	Pcs	1.5X50M Glass special
2	ACF Anisotropic Conductive Film		AC-2056R-35	1	Pcs	2.0X50M PCB special
3	Acetone Liquid		BT-H1	2	Bottle	500ML

4	Absolute Alcohol		CH <sub>3</sub> CH <sub>2</sub> OH	2	Bottle	500ML
5	ACF Removing Liquid		G-450	1	Bottle	500ML
6	Hitachi Blue Glue			1	Bottle	100ML
7	Fuji Silicone			1	Pcs	50M
8	Teflon			2	Pcs	50M
9	Heating Solder Iron			1	Pcs	30W
10	Removing Wind Station		825+Fan	1	Pcs	
11	Alcohol Bottle			3	Pcs	
12	TAB Cutter			1	Pcs	
13	Optical Microscope			1	Pcs	
14	LCD Test Board		HXV59/56	1	Pcs	
15	Dial Test Indicator			1	Pcs	

16	Allen key			1	Pcs	
17	Air Compressor		OTS550	1	Pcs	Mute Oil-free
18	LVDS		Common Specification	1	Pcs	
19	Cleanroom Wipers			1	Pcs	
20	Cotton Swab			1	Pcs	
21	Handheld Magnifier			1	Pcs	
22	Precision Tweezers		Elbow、Straight	2	Pcs	High Hardness Hyperfine

## Part 3: Training

### Plan A. Training in Factory

The factory is located in Guangzhou, China. If it is possible for your technician to come factory (in Guangzhou, China), welcome to visit and take training at our factory. We will provide 3~4 days free training, not only teach you how to use the machine, and also teach you the whole process and details.





## Plan B. Training Videos

If you cannot come to our factory for the training, we also provide another training method. After you have bought the machine, we will send you the Training Videos. Training Videos screenshot shows as below:



## Part 4: Packaging and Shipping

Before shipping, the machine will be disassembled in to two parts: The machine body and platform.

And will put them in two wooden boxes.

**MD-880SH  
MD-880DH PACKAGE**



Size:1270\*870\*1690mm

Weight:350kg



Size:1940\*220\*980mm

Weight:110kg

**Minder**  
-care for connection

**Packaging and Shipping**



Accessories inventory list



Disassemble the platform



Protective film package



Dedicated box package



Safe transport instructions



Platform packaging



Wooden box packaging



Lifting board loading



Dedicated forklift loading