

Technical Instruction

# Ultrasonic Metal Welding Machine

MSP-JS2032



**Zhejiang Zhenbo Precision Machinery Co.,Ltd**

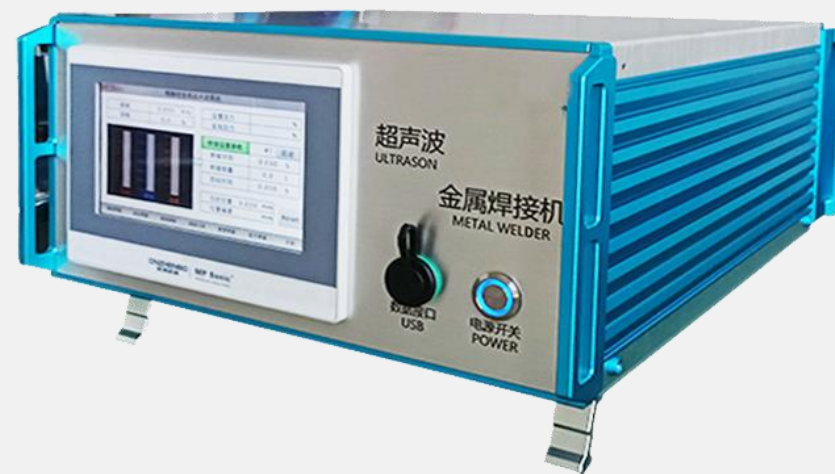
[www.mp-sonic.com](http://www.mp-sonic.com); [www.mp-sonic.cn](http://www.mp-sonic.cn)



# I. Ultrasonic Welding Machine-MSP-JS2032

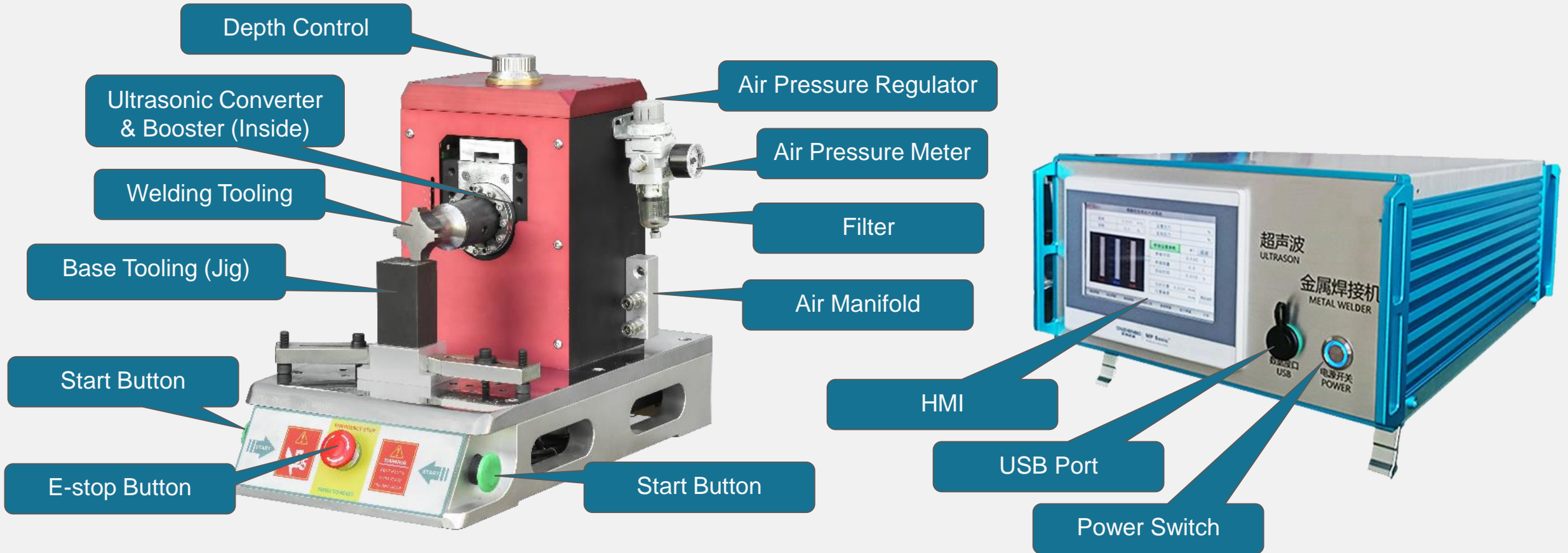


Machine



Ultrasonic with Control System

## II Machine Construction





### III. Machine Introduction

**JS-2032** is an ultrasonic welding machine designed by **MP Sonic** for metal wire splicing or thin metal sheet welding. Machine applies 20KHz IGBT ultrasonic system in 3200W for jointing metal material in strong and stable power output. Machine provides time mode and energy mode for welding control basing on requirement to optimize welding result. Adjustable amplitude meeting different material welding application.

Machine designed in high motion precision to ensure welding performance, depth control is available as optional feature for high welding requirement.

JS-2032 is mostly applied for electrical wire splicing, metal sheet welding, etc, fit for copper, aluminum, nickel sheet, etc.



## IV. Machine Main Features

1. In time frequency searching and tuning, system matches welding tooling intime working state in dynamic;
2. Ultrasonic compensation automatically in time;
3. Settable ultrasonic amplitude on HMI in 0~100% by 1%;
4. Welding mode can be selected from Energy mode & time mode;
5. System test mode is designed for welding tooling change-over;
6. Graph is designed to check machine output during welding process;
7. Formula system is equipped to store welding parameters;
8. History system is design for welding record and alarm record;
9. Data can be download by USB for backup;
10. Multiple protection system for machine safety including: Over-voltage protection, over-loading protection, error frequency protection, over impedance protection, etc;
11. Welding depth is adjusted in precision;
12. Air blower for quick cooling of welding.



## IV. Paid Optional Features

1. Welding Depth Mode: Servo control with close-loop, set welding depth on HMI;
2. MES system: Network + Wifi I-cloud service system + APP operation system in Mobile.



## V. Benefit

1. MP Sonic Korea Ultrasonic System in anti-resonance type design for strong ultrasonic output in stability, welding performance is stable;
2. Welding motion is Linear way guided in high precision (precision as high as 0.01mm);
3. Machine manufacturing in high precision with multiple manufacturing process procedure from high glass material, ensure machine duration in stability and precision;
4. MP Sonic intelligent operation system for easy operation, meeting high requirement in management-quality management, production management, equipment management, etc.



## VI. Specification

1. Model: MSP-JS2032;
2. Power Source: 220V, 1P, AC, 50/60Hz;
3. Air Source: 0.6~0.8MPa;
4. Ultrasonic Frequency: 20KHz;
5. Ultrasonic Power Output: max to 3200W;
6. Air: 0.6~0.8MPa;
7. Dimension: 340\*620\*430 (mm);
8. Generator with Control System: L46\*W36\*H24 (mm)
9. Cylinder: Ø100\*25mm.



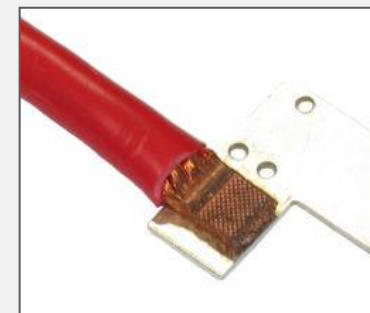
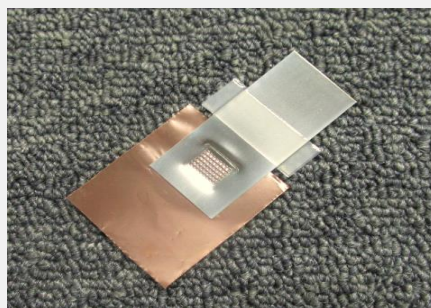
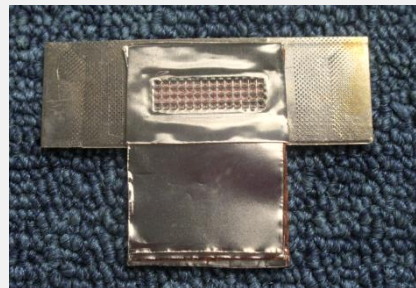


## VII. Business Information

1. Market Price: please send inquiry to email [info@mp-sonic.com](mailto:info@mp-sonic.com);
2. Content: Machine\*1set, Generator with Control System \* 1Set, Connection Cable\*1Set, Welding tooling (Horn) \* 1PC, Tooling Box\*1set, Package (Wooden Case package + Inner Plastic Film Package)\*1set.
3. Warranty: Machine warranty is 1 year, ultrasonic system (transducer + Generator) 2years. Not including fast worn material.
4. Machine Leading Time: 7 working days after received payment (not including sample trial period if requested); fixture leading period is 10 working days if requested.
5. Note: above price not including the cost for paid operational feature or the base fixture designed with parts 3D data.

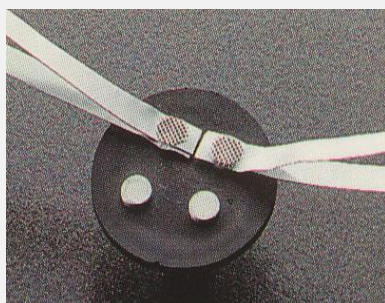
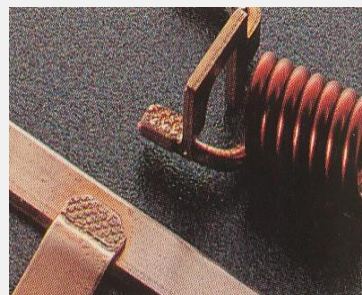
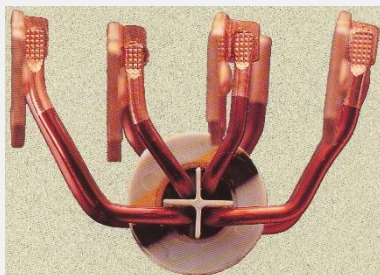


## VIII. Welding Samples





## VIII. Welding Samples





# Thanks

---

Tel :+86-577-61517751

Fax :+86-577-61517750

Mob:+86 15918523336

Email :[info@mp-sonic.com](mailto:info@mp-sonic.com)

Add :No.289, Weiqi Road,  
Yueqing Economic Development Zone,  
Wenzhou, China

Web:[www.mp-sonic.com](http://www.mp-sonic.com); [www.mp-sonic.cn](http://www.mp-sonic.cn)

