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Ultrasonic Cleaning Generator



The TU series ultrasonic cleaning generator is an ultrasonic generator that has been developed by Clangsonic Company for more than ten years and is positioned in the field of high-end industrial cleaning. This ultrasonic cleaning generator is developed with the new technology and with full-bridge phase shift, constant power output, automatic frequency chasing and automatic impedance change. It can further improve the adaptability of the generator for different working conditions stability.

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1.Ultrasonic Cleaning Generator Introduction

The TU series ultrasonic cleaning generator is an ultrasonic generator that has been developed by Clangsonic Company for more than ten years and is positioned in the field of high-end industrial cleaning. This ultrasonic cleaning generator is developed with the new technology and with full-bridge phase shift, constant power output, automatic frequency chasing and automatic impedance change. It can further improve the adaptability of the generator for different working conditions stability.



This ultrasonic cleaning generator was developed through more than 10 years of accumulated experience for high-end industrial cleaning applications. It adopts the 4 major technologies: Full Bridge Phase Shift, Constant Power Output, Automatic Frequency Tracking And Load Self-Adaptation which would improve the stability and compatibility to different working conditions. This ultrasonic cleaning generator can be individually connected to a washing tank or integrated to large ultrasonic cleaning system. Either way, it will get fast, uniform and perfect cleaning effect.

2.Ultrasonic Cleaning Generator Parameter (Specification)

| Model | Ultrasonic Frequency | Nominal Ultrasonic Power | Power Supply | Communication Interface |
|---------|----------------------|--------------------------|--------------|-------------------------|
| TU0628 | 28KHZ | 600W | 110/220VAC | IO/485 |
| TU1028 | 28KHZ | 1000W | 110/220VAC | IO/485 |
| TU1228 | 28KHZ | 1200W | 220VAC | IO/485 |
| TU1528 | 28KHZ | 1500W | 220VAC | IO/485 |
| TU2028 | 28KHZ | 2000W | 220VAC | IO/485 |
| TU0640 | 40KHZ | 600W | 110/220VAC | IO/485 |
| TU1040 | 40KHZ | 1000W | 110/220VAC | IO/485 |
| TU1240 | 40KHZ | 1200W | 220VAC | IO/485 |
| TU1540 | 40KHZ | 1500W | 220VAC | IO/485 |
| TU2040 | 40KHZ | 2000W | 220VAC | IO/485 |
| TU0668 | 68KHZ | 600W | 220VAC | IO/485 |
| TU1068 | 68KHZ | 1000W | 220VAC | IO/485 |
| TU1268 | 68KHZ | 1200W | 220VAC | IO/485 |
| TU1568 | 68KHZ | 1500W | 220VAC | IO/485 |
| TU0680 | 80KHZ | 600W | 110/220VAC | IO/485 |
| TU1080 | 80KHZ | 1000W | 220VAC | IO/485 |
| TU1280 | 80KHZ | 1200W | 220VAC | IO/485 |
| TU06130 | 130KHZ | 600W | 110/220VAC | IO/485 |
| TU10130 | 130KHZ | 1000W | 220VAC | IO/485 |

The above models are for reference only.

Take TU2028-A21 as the example

| No. | Description | Parameters |
|-----|------------------------------|-----------------------------------|
| 01 | Power Supply | 220VAC±10% (50/60HZ) |
| 02 | Ultrasonic Frequency | 28KHZ |
| 03 | Ultrasonic Power | 2000W |
| 04 | Peak Power | 4000W |
| 05 | Power adjustable | 10~100% |
| 06 | Full Bridge Phase Shift | Yes |
| 07 | Constant Power Control | Yes |
| 08 | Automatic Frequency-tracking | Yes |
| 09 | Load Self-adaption | Yes |
| 10 | Remote Control | Level: 24VDC±10% Current: 20mA |
| 11 | Communication Interface | RS485 (MODBUS RTU) |
| 12 | Working Temperature | 0~40℃ /0~90%RH |
| 13 | Protection Class | IP21 |
| 14 | Size | 412*160*238mm(L*W*H) |

3. Ultrasonic Cleaning Generator Features and Application

1. IGBT full bridge phase shift technology
2. 10-100% power adjustable linearly
3. Constant power output for different working conditions
4. Auto Frequency Tracking
5. 2 times peak power technology which has better cleaning effect to stubborn stains
6. Frequency sweep function which can effectively eliminate stand wave and improve ultrasonic performance
7. Conversion efficiency up to 95%
8. Industrial level LCD display supporting parameters setting and status monitoring
9. Internal protection for over current, over voltage and short circuit
10. Remote control, connectable to PLC and HMI etc

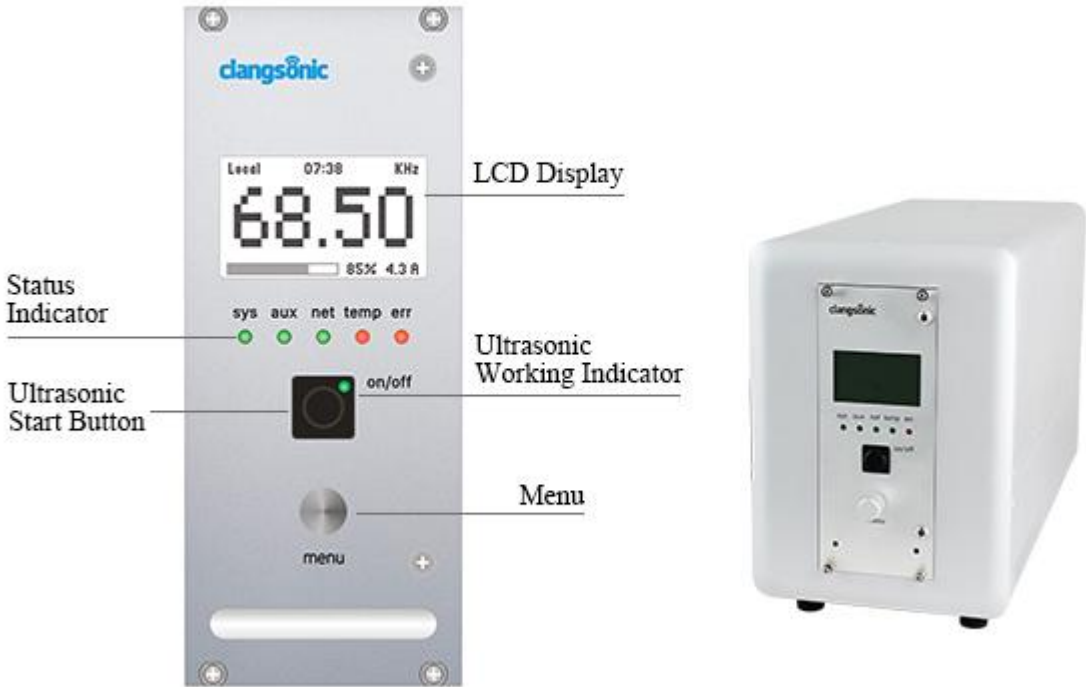


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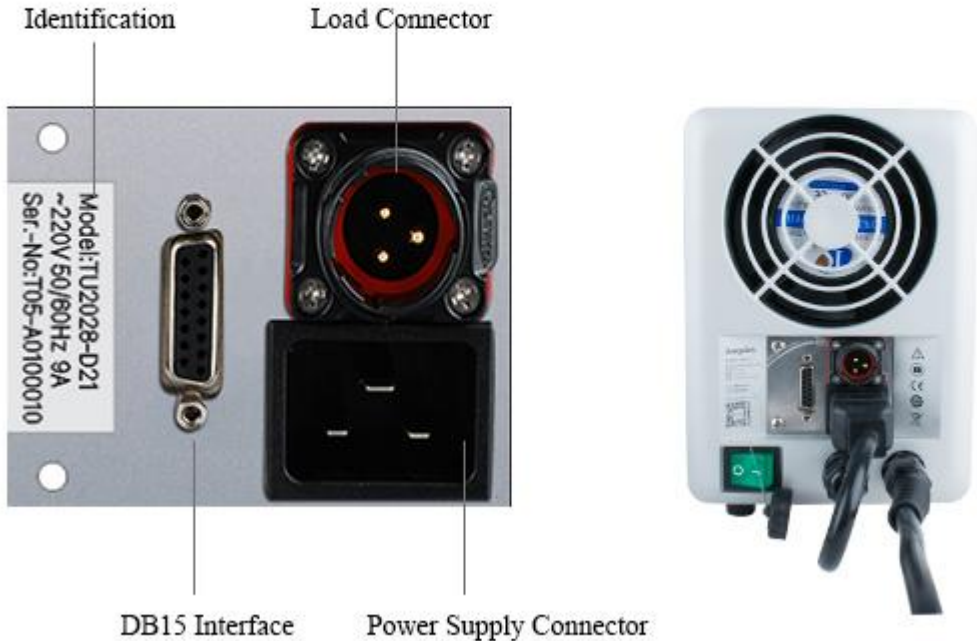
11. Support RS485 MODBUS RTU communication
12. Can be integrated into 19" standard cabinet

4. Details Images

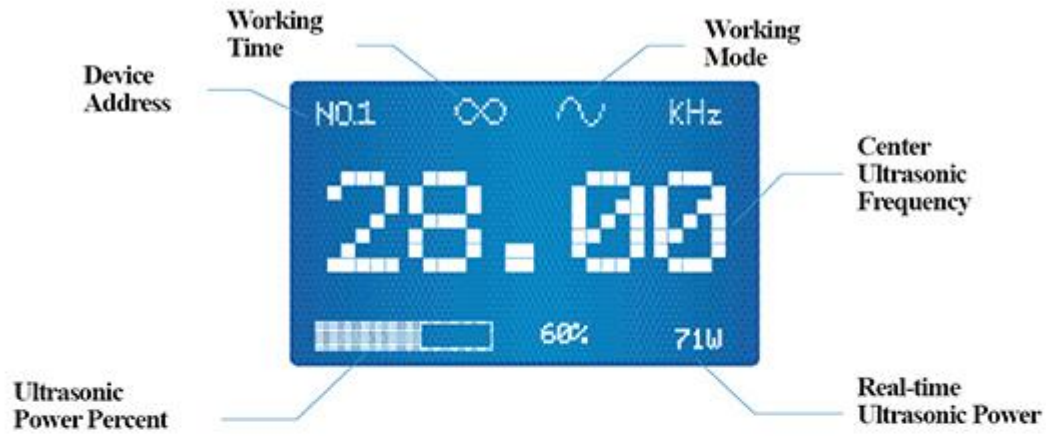
Front Panel



Back Panel



LCD Display



Monitoring Interface

The monitoring interface consists of four panels:

- Top Left Panel:** NO.1, ∞, ∞, KHz, 28.00, 60%, 71W
- Top Right Panel:** Monitor 1/3

| | |
|---------------|-----|
| 1. Voltage(U) | 326 |
| 2. Current(A) | 0.0 |
| 3. Phase(^) | 702 |
- Bottom Left Panel:** Monitor 3/3

| | |
|------------|------|
| 7. Freq_1 | 2800 |
| 8. Freq_2 | 2800 |
| 9. Version | 1201 |
- Bottom Right Panel:** Monitor 2/3

| | |
|----------------|----|
| 4. Status | 0 |
| 5. Temp(°C) | 16 |
| 6. Run Time(h) | 0 |

5. Company Qualification

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Yuhuan Clangsonic Ultrasonic Co., Ltd. is a professional engaged in ultrasonic transducer, ultrasonic shock box, ultrasonic (generator) power and ultrasonic equipment research and application of the manufacturer.

Since 2003 the company since its establishment, unswervingly adhere to the higher quality and better service as our ultimate goal.

Our products are exported to the world more than 40 countries and regions. To provide customers with a full range of ultrasonic products and solutions, so that waves of the company to become a global customer real partners.



The company has an effective construction area of over 6,000 square meters, with imported Tian Tian, Baichao sheet metal bending machine, KUKA robot, as well as the Swedish fuse factory, and CNC sawing machine, CNC lathe, CNC milling machine and other equipment, making the product more reliable.

Visit Factory



Workshop



Exhibition





6. Deliver, Shipping and Serving

| | |
|-----------------------|-------------|
| TU | |
| Quantity(PCS) | 1 |
| N.W.(KGS) | 7.5 |
| G.W.(KGS) | 6.5 |
| Dimensions(L×W×H)(mm) | 550*260*320 |





To better ensure the safety of your goods, professional, environmentally friendly, convenient and efficient packaging services will be provided.

CLANGSONIC

Shipping & Payment

Started working again,Started working again,Started working again.



7. FAQ

1. Are you manufacturer or trading company?

We are manufacturer. All the core components (ultrasonic transducer, ultrasonic generator) are home-made by ourselves.

2. Do you accept OEM and ODM?

Yes, we also have profession R&D teams (ultrasonic transducer team, ultrasonic generator team and mechanical design team) to responds your special needs quickly.

3. Delivery time

Standard products can be delivered within 7 working days. Customized machine depend on the design.

4. Warranty

We guarantee quality of the products for a period of 1 year. If any quality problem within warranty, we'll provide free spare parts or repairing service.

5. Do you provide trial cleaning service?

Yes, you're welcome to send the workpieces for trial cleaning. We'll send you video and report about the test. It's free service.

6. Can you provide ultrasonic transducer or generator if any failure?

Yes, ultrasonic transducer and ultrasonic generator are designed and manufactured by ourselves. We can send the right parts quickly for replacement.

7. Payment Methods?

T/T ,L/C, D/P ,D/A, West Union , Paypal, MoneyGram ,Escrow .

8. Which frequency and power is suitable for our workpiece?

Please contact us and provide details as specific as you can. Information includes: the size, material, weight and dirt of your workpiece and cleaning tank dimension etc.