

## AK 20kHz 2000W Ultrasonic Welding

### I. Overview

Ultrasonic transducer is the core device that converts electrical energy into mechanical energy (ultrasonic), Adopting high quality piezo ceramic from well-know supplier and strict quality inspections, can give a strong and stable ultrasonic output. The frequency is mainly 20kHz, booster and sonotrode together as your needs.

**AK** digital TCR ultrasonic generator which is adopting advanced **IGBT Full Bridge Phase Shift** technology and features in **automatic frequency tracking** and **constant amplitude output**.



#### Main Function:

1. Automatic Frequency Tracking
2. Self Protection, For Over Tem., Current & Voltage
3. Amplitude 10-100% Adjustable
4. Working Modes, External Control/Timing/Energy
5. LCD Display To Monitor Working Status
6. RS485 MODBUS RTU Communication
7. Constant Amplitude Output

### II. Application

Welding for non-woven bag making machine, paper cup sealing machine, three layers bag making machine, medical cloths making machine, plastic bag making machine and **mask welding** etc.

### III. Specification

Name	Ultrasonic Transducer	Ultrasonic Generator
Model	AK2050-4P8-S	AK2020-Z21
Ultrasonic Frequency	20±0.5kHz	20±0.5kHz
Ultrasonic Power	2000Watts	2000Watts
Capacitance	11000±10%pF	-
Resistance	≤10Ω	-
Max.Allowable Temperature	120°C	0~40°C
Storage Temperature	-5°C~+40°C	-5°C~+40°C
Storage Humidity	60±20%RH	0~90%RH
Working Area	110x20mm	
Size	H 253mm x φ63mm	L 223 x W 88 x H 415mm
Power Supply	-	220V, 50/60Hz, 1 Phase

### IV. Packing

Name	Ultrasonic Transducer	Ultrasonic Generator
Size/CTN	43 x 34 x 16 cm	48 x 26 x 30 cm
Weight/CTN	7KG	7.5KG
Charged Weight/CTN	7KG	10KG