



ULTRASONIC

大威超声

用质量推动增长
Promoting growth with quality

关于我们

大威超声公司专注于超声波应用，是一家生产以超声波设备、超声波换能器、压电陶瓷元件等为核心的生产制造型企业，具备强大的产品研发能力，完善的质量管理体系，产品主要应用于无纺布切割和缝纫、塑料焊接、超声波雾化、食品切割、超声波清洗等领域。

大威超声一直是超声波技术研发设计领域的积极参与者，其核心团队由超声技术工程师、机械自动化工程师、操作与维修工程师等资深专家组成。拥有先进的换能器自动化装配设备，专业的超声波数据检测检验仪器，能为广大客户提供超声波相关产品的技术支持，形成了在超声与压电技术领域核心优势，此外，我们还建立了来自世界各地的经销商和商业伙伴，并设立国际贸易销售服务部，目前超声波产品远销新加坡、印尼、哥伦比亚、意大利、越南、俄罗斯、南非、土耳其、伊朗、印度等国家和地区，深受客户好评。

大威超声恪守“用质量推动公司增长”的企业发展观，用专业技术满足客户需求，用完善的服务体系成就长期合作关系，是一家健康成长的新型企业。

长期稳定的业务关系、产品和服务的可靠性、以及与客户和供应商保持开放、友好的沟通合作是大威超声可持续发展的重要支柱。

我们竭诚欢迎国内外客户与我们联系，建立合作伙伴关系，实现共同发展。

ABOUT US

Devey Company focuses on the production of ultrasonic equipment. Devey is a manufacturing enterprise focusing on ultrasonic equipment, ultrasonic transducers, piezoelectric ceramic components and other products with 17 years of experiences. Products are mainly used in non-woven fabric cutting and sewing, plastic welding, ultrasonic atomizing product, food cutting, ultrasonic cleaning equipment and other kinds of fields.

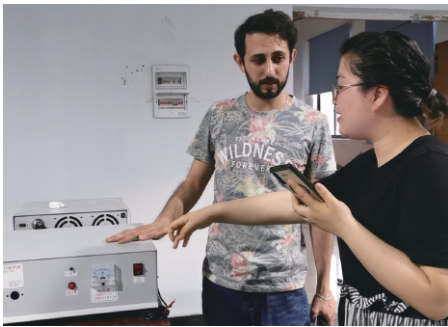
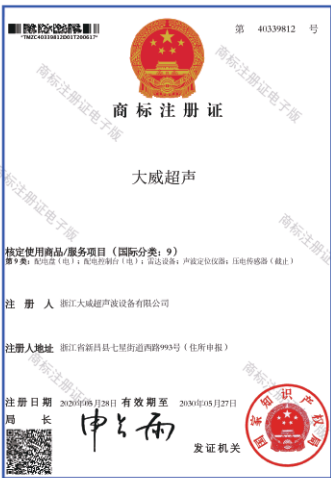
Devey attracts many kinds of senior experts such as ultrasonic technology engineers, mechanical automation engineers, operator and manager. Devey provides technical support for ultrasonic related products to customers, and has long-term supply of high-quality ultrasonic products and related accessories. In addition, we have distributors and business partners from all over the world. Devey set up the international trade sales department to provide customers with a full range of services. Providing all kinds of customers with professional and reliable products, efficient and convenient after-sales service is the goal of Devey.

Our vision is to build a world-class ultrasonic brand. We adhere to the principle of mutual benefit of each other for business, and we have already established a good reputation among our customers. We sincerely welcome customers from abroad to contact us for cooperation and promote better progress for the work.



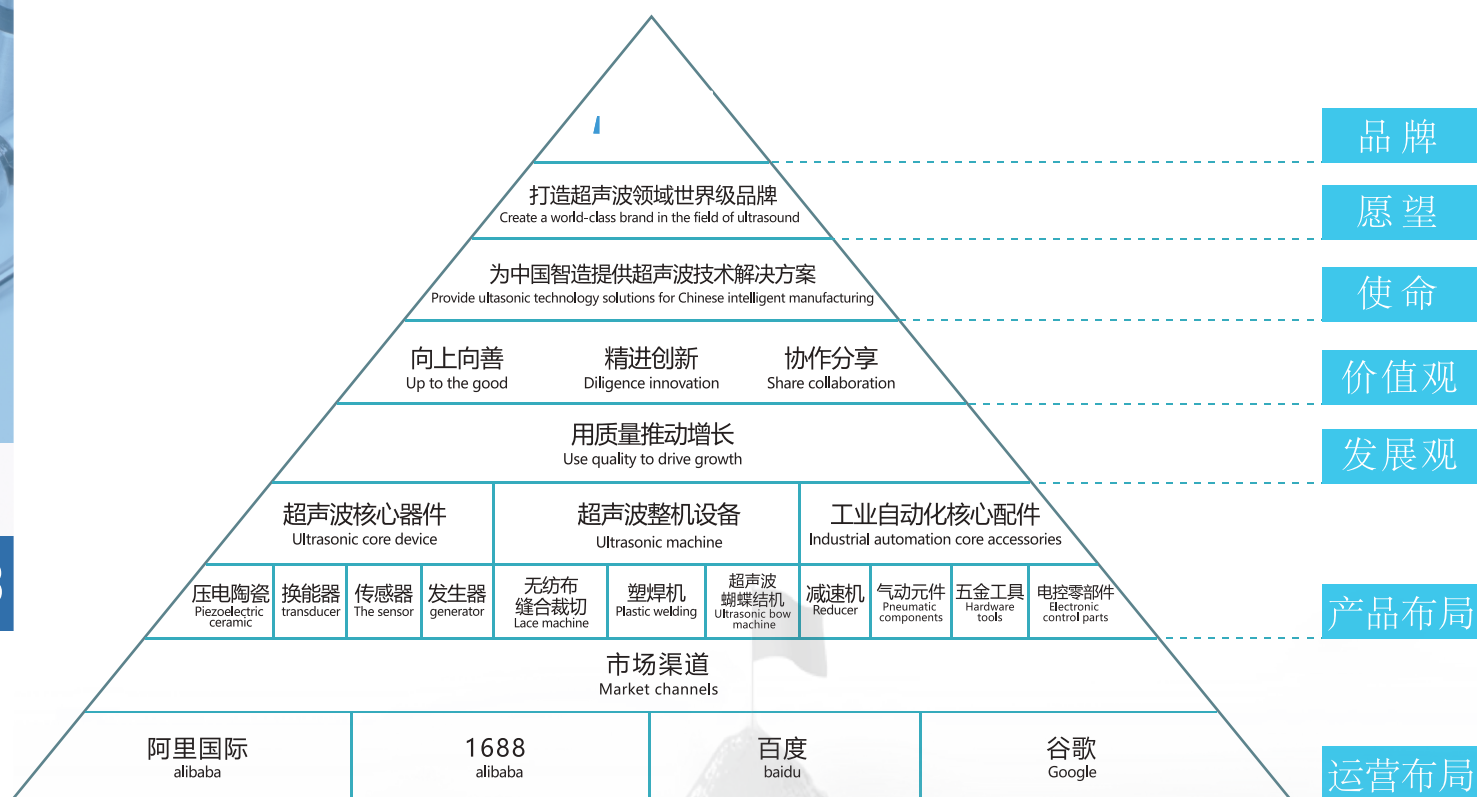
资质证书

Qualification certificate



大威超声品牌架构图

ULTRASONIC brand architecture



我们的优势： Our advantages

1. 掌握超声核心技术 Master ultrasonic core technology

超声波换能器是由金属结构件+压电陶瓷晶片，通过螺栓锁紧的方式制作而成，一支品质优良，性能稳定的超声波换能器除了生产工艺的严谨，其中压电陶瓷元件最为核心，其生产技术要求与门槛也最高，目前国内具备自主生产压电陶瓷晶片技术优势的企业数量极少，大威公司是其中之一。

Ultrasonic transducer is made up of metal structure + piezoelectric ceramic chip, through the way of the self-contained bolt lock, a good quality and stable performance of the ultrasonic transducer in addition to the production process is rigorous, the piezoelectric ceramic element is the core, its production technology requirements and the threshold is the highest, the current domestic has the independent production of piezoelectric ceramic chip technology advantage, few number of businesses, The Grand Williams Company is one of them.

2. 生产流程标准化、数字化 The production process is standardized and digitized

大威超声崇尚科学生产，拥有先进的超声波换能器自动化装配设备，专业的超声波频率检测仪器，将多年的生产经验和沉淀与数据化、自动化生产相结合，我们批量生产的超声波换能器，具备高振幅、低阻抗、一致性强等特点。

Venus ultrasonic advocate scientific production, has advanced ultrasonic transducer assembly automation equipment, professional testing instrument, ultrasonic frequency will be many years of production experience and technology precipitation combined with digital, automatic production, we batch production of ultrasonic transducer, has high amplitude, low impedance, a strong consistency, etc.

3. 耐心、专业，具备多语言沟通能力的售后服务团队 Patient, professional and multilingual service team

大威超声自成立以来，所生产制造的产品面向世界各国，由于超声波应用领域广泛，款式种类繁多，我们所有的产品都会拍摄操作使用视频讲解教程，同时还提供远程视频通话，实上线上高效快速的技术指导

Since its establishment, the products produced by Dawei Ultrasonic face the world, due to a wide range of ultrasonic applications, a wide variety of styles, all of our products will be filmed and operated using video tutorial, but also provide remote video calls, real online efficient and fast technical guidance

产品目录

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01

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04

超声波塑料、无纺布焊接系统
Ultrasonic welding system for plastics and non-woven fabrics

05

超声波食品切割系列 Ultrasonic food cutting

06

超声波液体处理系列 Ultrasonic liquid treatment

07

超声波检测系列 Ultrasonic testing series

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01

减速机系列 reducer

02

气动元件系列 Pneumatic components

03

五金工具系列 Hardware tools

04

电控零部件系列 Electronic control parts

二、超声波设备 Ultrasonic equipment

01

超声波塑料焊接机 Ultrasonic plastic welding machine

02

超声波缝纫机 Ultrasonic sewing machine

03

超声波冲孔机 Ultrasonic punching machine

04

超声波日化品尾管封口机
Super sonic chemical liner sealing machine

05

热收缩包装封切一体机
Heat shrinkable packaging sealing and cutting machine

06

超声波高速裁切机
Ultrasonic high speed cutting machine

07

超声波切带打孔一体机
Ultrasonic belt cutting and punching machine

08

超声波自动化蝴蝶结机
Automatic ultrasonic bow machine

09

超声波手套机 Ultrasonic Glove Machine

10

超声波检测仪器 Ultrasonic testing instrument



工业自动化核心配件一站式采购服务



压电陶瓷的应用范围

INTRODUCTION OF PIEZOELECTRIC CERAMICS APPLICATION FIELDS

利用早已熟知的压电现象或超声波的制品在我们日常生活中以及从医疗到工业等极其广阔的领域里都广泛使用。

虽然我们几乎没有看到,但实际上应用到我们身边的许多事物,例如:

- ★ 家电或钟表的电子音源
- ★ 气体打火机的着火源
- ★ 加湿器或吸入器的雾化源
- ★ 汽车倒车隅角传感器
- ★ 液晶监控器的倒相变换器
- ★ 医疗诊断装置或按摩器的超声波源
- ★ 步行计的计数源
- ★ PC监控器的接触传感器
- ★ 鱼群探测机或声纳的探测源
- ★ 金属、混凝土、地壳等固体中的探测源
- ★ 各种洗涤机的超声波源
- ★ 喷墨打印机的泵源
- ★ 电子显微镜的扫描微动源
- ★ 电话机或遥控器的同步信号源
- ★ PDA机械的话筒或传声器

用途如此之多的压电陶瓷是将压力和电气进行转换的东西,由于应变而得到电输出,由于电输入又得以收缩,它就是利用这种相互转换的性质。大威公司通过从研发到制造的整个工艺,提供多种压电陶瓷材料配方及性能以适于各种用途的超声应用。

The products which applies piezoelectric phenomenon and the ultrasonic waves known since old time is used in the accessible life and medical treatment, and also in the industrial field and another various fields.

Piezoelectric ceramics are rarely seen, for instance,

- Electronic sound for home electric appliance and clock,
- Ignition for the gas lighter,
- Source of mist for the humidifier and nebulizer,
- Back sonar and corner sensor for automobile,
- Inverter transformer for the LCD monitor,
- Ultrasonic source of diagnosis device for medical treatment and massage device,
- Step counter for pedometer,
- Touch sensor for PC monitor,
- Hydrophone for fish detectors and sonar,
- Detection in solid objects such as metal, concrete, and the earth's crust,
- Ultrasonic for cleaning applications,
- Pump for ink jet printer,
- Micro actuator for scanning electronic microscope,
- Clock signal for telephone and remote controller,
- Speaker for the PDA application and microphone,

As above-mentioned, piezoelectric ceramics used with various applications convert pressure force and electric energy, the electrical output from the distortion, the expansion from the electrical input. Moreover, it is the one that the character to convert these mutually was used.

Piezoelectric ceramics, which are used in so many ways, take advantage of this interconversion property by converting pressure to electricity, producing an electrical output as a result of strain and a contraction as a result of the input. Dawei provides a wide range of piezoelectric ceramic materials formulations and properties suitable for a wide range of ultrasonic applications through a process from development to manufacturing.



电气→机械→电气相互转换方面

The Mutual Conversion of Electrical Energy- Mechanical Energy

空气中超声波

超声波测距
汽车倒车雷达
超声波开关
烟雾传感器
风速风向仪
液位计
接近开关

Air ultrasonics

Distance detectors
Parking sensors
Ultrasonic switches
Smoke sensors
Anemometers
Liquid level meters
Proximity switches

水中超声波

流量检测传感器
鱼群探测传感器
声呐

Hydrospace ultrasonics

Flow detection sensors
Fish detection sensors
Sonars

医用超声波

层析诊断装置
胎儿心率计
血流计
内窥镜
分娩监视装置

Medical ultrasonic equipments

Tomography diagnosis equipments
Fetal Doppler monitors
Blood flow meters
Fiber scopes
Child-birth monitoring equipments



电能转换为机械能

Electrical Energy → Mechanical Energy

大功率超声波

清洗机
加湿器
按摩器
喷雾器
超声笔焊接机
便携式洗衣机
美容仪
结石碎石器
牙齿除垢器
超声手术刀

High power ultrasonics

Cleaners
Humidifiers
Massagers
Nebulizers
Ultrasonic welding machines
Portable washing machines
Cosmetic instruments
Calculus smashing equipments
Dental descaler equipments
Ultrasonic scalpels



机械能转换为电能

Mechanical Energy → Electrical Energy

传感器

冲击传感器
压力传感器
震动传感器
电位传感器
血压计微音器
旋转平衡器
调色传感器
卡路里检测器
漏水传感器

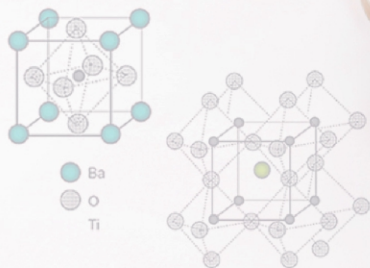
Sensors

Shock sensors
Pressure sensors
Vibration sensors
Potentiometric sensors
Sphygmomanometer' microphones
Rotation balancers
Color modulation sensors
Calorie monitors
Water leaking sensors

名称 Name	符号	大威超声--- 压电陶瓷粉体材料主要数据信息									单位
		PZT41	PZT42	PZT43	PZT 51	PZT52	PZT53	PZT81	PZT82	PZT31	
机电耦合系数 Electromechanical coupling coefficient	k_p	0.56	0.58	0.60	0.60	0.60	0.62	0.53	0.55	0.56	—
	k_{31}	0.33	0.34	0.32	0.38	0.38	0.36	0.31	0.32	0.27	
	k_{33}	0.66	0.67	0.64	0.74	0.74	0.80	0.63	0.64	—	
	k_{15}	0.66	0.67	0.65	0.72	0.72	0.68	0.66	0.65	—	
	k_t	0.48	0.48	0.50	0.50	0.50	0.47	0.47	0.50	—	
相对介电常数 Relative permittivity	ϵ_{r3}^T	1050	1275	1350	1700	2100	3400	1025	1300	1700	—
	ϵ_{r1}^T	1450	1700	1750	1900	2400	3800	1400	1700	—	
介电损耗 Dielectric loss	$\text{tg}\delta$	0.003	0.003	0.003	0.02	0.02	0.025	0.002	0.002	0.013	—
压电应变常数 Piezoelectric strain constant	d_{31}	- 110	- 130	- 150	- 185	- 210	- 280	- 100	- 120	160	$\times 10^{-12}\text{m/V}$
	d_{33}	250	290	320	400	450	650	225	300	380	
	d_{15}	460	500	530	640	710	860	450	510	—	
弹性柔顺常数 Elastic compliance constant	s_{11}^E	12	11.5	13.5	18	15	20	11	11	15.8	$\times 10^{-12}\text{m}^2/\text{N}$
	s_{33}^E	8.5	8	8.7	22	9	21	8.5	8.5	—	
	s_{55}^D	21	21	21.5	24	22	23	21	21	—	
机械品质因数 Mechanical quality factor	Q_m	500	500	1000	70	70	70	800	800	70	—
频率常数 Frequency constant	N_d	2250	2200	2100	2000	2000	1960	2300	2150	—	$\text{Hz} \cdot \text{m}$
	N_1	1650	1700	1550	1450	1450	1400	1700	1560	1560	
	N_3	1950	2050	2000	1900	1900	1850	1960	2100	—	
	N_5	1230	1230	1230	1200	1200	1200	1230	1230	—	
	N_t	2270	2300	2300	2250	2250	2190	2280	2280	—	
声速 The speed of sound	V_d	3460	3500	3200	3000	3000	2950	3500	3500	—	m/s
	V_1	3300	3400	3100	2900	2900	2880	3400	3400	—	
	V_3	3900	4100	4000	3800	3800	3800	3920	3920	—	
	V_5	2460	2460	2460	2400	2400	2400	2460	2460	—	
	V_t	4540	4600	4600	4500	4500	4500	4560	4560	—	
密度 The density of	ρ	7.5	7.5	7.5	7.6	7.6	7.6	7.5	7.5	7.5	—
居里温度 Curie temperature	T_c	310	300	360	270	260	220	300	300	380	—

压电陶瓷晶体

PIEZOELECTRIC CERAMICS



PZT5-100*10mm

PZT8-60*30*10mm

PZT4-60*30*10mm

PZT8-50*17*6.5mm

PZT4-20*2mm

螺栓紧固型换能器用元件 Bolt tightening Langevin transducer elements

将压电元件用螺栓紧固在金属杆上，使压电元件机械振动的质点位移或速度放大，超声能量集中在较小的面积上使用，即超声聚能器。可提供谐振阻抗低、介电损耗小、热稳定性好，可大功率驱动的各种环状元件。

The piezoelectric element is fastened on the metal rod with bolts to make the piezoelectric element Mechanical vibration of pieces of particle displacement or velocity amplification, ultrasonic energy Concentrate on small areas of use, i.e., ultrasonic accumulators. Can be Provides low resonance impedance, small dielectric loss, good thermal stability, All kinds of ring components that can be driven by high power



主要应用和规格/Example of main applications.

超声焊接 Ultrasonic welding 超声萃取 Ultrasonic extraction
超声清洗 Ultrasonic cleaning 超声分散 Ultrasonic dispersion
洁牙除垢 Teeth cleaning descaling 超声乳化 Ultrasonic emulsification

Specifications.

外径 Diameter: $\phi 5 \sim \phi 70\text{mm}$
(常规外径 Standard: 10, 25, 30, 35, 40, 45, 50, 60, 65, 70)
内径 Inside diameter: $\phi 5 \sim \phi 30\text{mm}$
(常规内径 Standard: 5, 10, 12, 15, 17, 20, 30)
厚度 Thickness: 1~10mm
(常规厚度 Standard: 1, 2, 3, 5, 5.5, 6, 6.5, 10)
推荐材质 Recommended material: PZT-4/PZT-8

超声波美容按摩通用元件 Universal component of ultrasonic beauty massage

超声波振动对身体的按摩效果广泛应用于医疗和美容，可提供适应这种效果的高可靠性，高能量转换率的振动元件。

The massage effect of the ultrasonic vibration on the body is widely used in the medical treatment and cosmetology. We offer vibration components with high reliability and energy conversion rate.



主要应用和规格/Example of main applications.

超声波医疗器械 Ultrasonic medical instrument
脸部美容护理机器 Facial beauty care machine
身体美容护理机器 Body beauty care machines
洗脸美容护理机器 Washing face beauty care machine

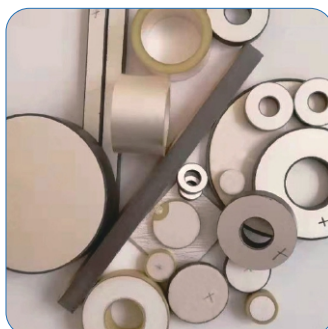
Specifications.

外径 Diameter: $\phi 10, \phi 15, \phi 20, \phi 25, \phi 28, \phi 30, \phi 40, \phi 50\text{mm}$
共振频率 Resonant frequency: 1.63MHz/2.4MHz/2.8MHz
推荐材质 Recommended material: PZT-4
超声波发射面电极保护: 单电极/双面电极

超声传感检测通用元件 Universal component for ultrasonic sensing detection

传感器（换能器）发出超声波脉冲，声波经被测物表面反射后被同一传感器接收，由声波的发射和接收之间的时间来计算传感器到被测物体表面的距离。超声波液位计由于采用非接触的测量，被测介质几乎不受限制，可广泛用于各种液体和固体物料高度的测量。

The sensor (transducer) emits the ultrasonic pulse, which is reflected by the detected surface and received by the same sensor. We can calculate the distance from the sensor to the detected surface by the interval time between the emission and reception of the acoustic wave. Due to the adoption of non-contact measurement, the ultrasonic level meter can be widely used in the height measurement of both the liquid and solid materials, not limited to the kind of media.



主要应用和规格/Example of main applications.

超声波流量计 Ultrasonic flowmeter 超声波液位计 Ultrasonic level meter
水声换能器 Underwater transducer 噪声检测换能器 Noise detection transducer
超声波风速风向仪 Ultrasonic anemometer 气泡检测换能器 Bubble detection transducer

Specifications.

外径 Diameter: $\phi 5 \sim \phi 100\text{mm}$
(常规外径 Standard: 10, 25, 30, 35, 40, 45, 50, 90, 100)
厚度 Thickness: 1~10mm
(常规厚度 Standard: 1, 2, 3, 5, 10)
推荐材质 Recommended material: PZT-4/PZT-5

产品名称	原厂地	品牌	型号尺寸	材料	常用生产换能器类型	关联证书	单位	单片重量g	包装纸箱尺寸
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ25*10*5mm	PZT4	35KHz/28KHz 焊接换能器	CE认证	PCS	10g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ30*12*5mm	PZT4	28KHz焊接换能器	CE认证	PCS	28g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ35*15*5mm	PZT4	28KHz清洗换能器	CE认证	PCS	30g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ35*15*5.5mm	PZT4	28KHz清洗换能器	CE认证	PCS	31g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ38*15*5mm	PZT4	28KHz清洗换能器	CE认证	PCS	40g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ45*15*5mm	PZT4	40KHz清洗换能器	CE认证	PCS	50g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*17*5mm	PZT4	20KHz焊接换能器	CE认证	PCS	70g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*17*6.5mm	PZT4	20KHz焊接换能器	CE认证	PCS	90g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*20*6mm	PZT4	20KHz焊接换能器	CE认证	PCS	80g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*20*6.5mm	PZT4	20KHz焊接换能器	CE认证	PCS	80g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ60*30*10mm	PZT4	15KHz焊接换能器	CE认证	PCS	170g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ65*30*10mm	PZT4	15KHz焊接换能器	CE认证	PCS	200g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*2.6mm-S	PZT4	40KHz眼镜清洗机	CE认证	PCS	40g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ25*10*5mm	PZT8	35KHz/28KHz 焊接换能器	CE认证	PCS	10g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ30*12*5mm	PZT8	28KHz焊接换能器	CE认证	PCS	29g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ35*15*5mm	PZT8	28KHz清洗换能器	CE认证	PCS	30g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ38*15*5mm	PZT8	28KHz清洗换能器	CE认证	PCS	40g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ38*15*6mm	PZT8	28KHz焊接换能器	CE认证	PCS	40g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ45*17*6.5mm	PZT8	15KHz焊接换能器	CE认证	PCS	45g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*17*6.5mm	PZT8	20KHz焊接换能器	CE认证	PCS	90g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*20*5mm	PZT8	20KHz焊接换能器	CE认证	PCS	60g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*20*6mm	PZT8	20KHz焊接换能器	CE认证	PCS	80g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*20*6.5mm	PZT8	20KHz焊接换能器	CE认证	PCS	80g	29*29*20cm
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ60*30*10mm	PZT8	15KHz焊接换能器	CE认证	PCS	160g	29*29*20cm

产品名称	原厂地	品牌	型号尺寸	电容量pf	品质因素QM	居里温度	保存环境	谐振频率KHz	阻抗Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ25*10*5mm	1000pf	1000QM	360°C	23±5°C	62.14KHz	13.82Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ30*12*5mm	1285pf	1000QM	360°C	23±5°C	47KHz	11.2Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ35*15*5mm	1800pf	1000QM	360°C	23±5°C	42.6KHz	16Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ35*15*5.5mm	1700pf	1000QM	360°C	23±5°C	43KHz	16Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ38*15*5mm	2500pf	1000QM	360°C	23±5°C	40.2KHz	17Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ45*15*5mm	3200pf	1000QM	360°C	23±5°C	36.3KHz	4Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*17*5mm	4000pf	1000QM	360°C	23±5°C	33KHz	4Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*17*6.5mm	3000pf	1000QM	360°C	23±5°C	33.4KHz	4.24Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*20*6mm	3300pf	1000QM	360°C	23±5°C	31.5KHz	5.28Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*20*6.5mm	3000pf	1000QM	360°C	23±5°C	31.3KHz	5.2Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ60*30*10mm	2300pf	1000QM	360°C	23±5°C	23.87KHz	11Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ65*30*10mm	2500pf	1000QM	360°C	23±5°C	24KHz	10Ω
压电陶瓷	中国浙江	DEVEY	DW-P43- Φ50*2.6mm-S	7800pf	1000QM	360°C	23±5°C	43.3KHz	1.58Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ25*10*5mm	770pf	800QM	300°C	23±5°C	66.28KHz	75.87Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ30*12*5mm	1075pf	800QM	300°C	23±5°C	55KHz	10Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ35*15*5mm	1400pf	800QM	300°C	23±5°C	45.77KHz	13.1Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ38*15*5mm	1800pf	800QM	300°C	23±5°C	43.8KHz	10.66Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ38*15*6mm	1500pf	800QM	300°C	23±5°C	43.64KHz	13.84Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ45*17*6.5mm	2500pf	800QM	300°C	23±5°C	38.8KHz	13.26Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*17*6.5mm	2700pf	800QM	300°C	23±5°C	35.3KHz	6.5Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*20*5mm	3000pf	800QM	300°C	23±5°C	33.2KHz	6.36Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*20*6mm	2700pf	800QM	300°C	23±5°C	33.1KHz	6.6Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ50*20*6.5mm	2400pf	800QM	300°C	23±5°C	33.3KHz	7.5Ω
压电陶瓷	中国浙江	DEVEY	DW-P81- Φ60*30*10mm	1913pf	800QM	300°C	23±5°C	25.34KHz	15.19Ω



超声波换能器

ULTRASONIC TRANSDUCER



超声波换能器的应用原理

Application principle of ultrasonic transducer

超声波换能器是将电能转换成机械能（超声波）的器件，其中成熟可靠的是以压电效应实现电能与声能相互转换的器件，称为压电换能器。它由中央压电陶瓷元件，前后金属盖板，预应力螺杆，电极片以及绝缘管组成。这种夹心换能器（螺栓紧固型换能器）在负荷变化时产生稳定的超声波，是获得功率超声波驱动源的基本主要的方法。

大威超声目前生产的超声波换能器主要有超声波塑料焊接机系列、超声波液体处理换能器系列、超声波清洗机系列超声检测换能器等，从外型上分主要有柱型（NTK式）、倒喇叭型（进口式）、钢后盖型（劲龙式）、中间夹铝片型（京华式）等，可以说，只要是市场上通用的振子，我们都有生产，而且基本都有备货。如果客户有特殊需求的，只要给定我们样品或者详细的技术参数、要求，我们都可以在15天内提供产品交付服务。

Ultrasonic transducer is a device to convert electric energy into mechanical energy (ultrasonic), among which the mature and reliable one is the piezoelectric effect to realize the conversion of electric energy and sound energy, known as piezoelectric transducer. It consists of a central piezoelectric ceramic element, front and rear metal cover plates, prestressed screw, electrode plate and insulating tube. This sandwich transducer (bolted transducer) produces a stable ultrasonic wave as the load changes and is the basic primary method of obtaining a power ultrasonic drive source.

Venus ultrasonic current production of ultrasonic transducer mainly include ultrasonic plastic welding, ultrasonic liquid transducer, ultrasonic cleaning machine series transducer ultrasonic transducer, etc., points are mainly from the exterior column type (NTK type),

poured horn (imports), steel back cover type (jin dragon type), intermediate clip type aluminium (Beijing), etc., At present, we have m-any y-years of experience in the production of conventional transducers in the market.



超声波换能器的应用场景

Application scenario of ultrasonic transducer

无纺布制品 Nonwoven products

医疗/卫生用无纺布：手术衣、防护服、消毒包布、口罩、尿片、民用抹布、擦拭布、湿面巾、魔术毛巾、柔巾卷、美容用品、卫生巾、卫生护垫、及一次性卫生用布等.....

Medical/sanitary non-woven fabrics: operating gowns, protective clothing, disinfectant wrapping cloth, masks, diapers, Civil rag, wipe cloth, wet face towel, magic towel, soft towel roll, beauty supplies, bathroom Health towel, sanitary pads, and disposable sanitary cloth.....

塑胶制品 Plastics

汽车塑料零件：汽车车门、汽车汽车仪表、车灯车镜、遮阳板、内饰件、滤清器、反光道钉、尾气净化器、托盘滤板；塑胶电子：通讯设备、手机配件、电池壳、充电器、开关、U盘、SD卡、USB接插件、蓝牙；玩具文具：文件夹、相册、墨盒；医用日用：手表、厨具、口服液瓶盖、点滴瓶盖、手机饰件、空气床垫、衣架、刀柄、园艺用品、淋浴室花洒、沐浴花洒、化妆品瓶盖、咖啡壶、洗衣机、空气除湿机、电熨斗、吸尘器.....

Automotive plastic parts: car door, car instrument, car lamp, car mirror, cover, Positive plate, interior decoration, filter, reflective spike, tail gas purifier, tray filter, Plate; Plastic electronics: communication equipment, mobile phone accessories, battery cases, chargers, Switch, U disk, SD card, USB connector, Bluetooth; Toy Stationery: Documents Folder, photo album, ink cartridge; Daily medical use: watches, kitchenware, oral liquid bottle caps, Drops bottle caps, mobile phone accessories, air mattresses, coat hangers, knife handles, garden supplies, Cupboard with sanitary ware, shower shower, cosmetic bottle cap, coffee pot, washing machine, empty Gas dehumidifier, electric iron, vacuum cleaner.....

纺织服装配饰 Textile Clothing Accessories

家居纺织：沙发内包布，地毯，贴墙布，擦镜布，茶叶袋，吸尘器滤袋，购物袋，印花床单，应酬罩，软垫，睡袋，干洗擦布，百洁布，窗帘，台布，灯罩，御膝席背面覆膜。服装配饰：内衣花边、蕾丝、蝴蝶结、卡通图形、鞋垫.....

Home textile: sofa inner covering cloth, carpet, wall cloth, mirror cloth, tea bag, Vacuum cleaner filter bag, shopping bag, printed bed sheet, party cover, cushion, sleeping bag, Dry cleaning cloth, clean cloth, curtain, table cloth, lampshade, royal rattan mat back film. Clothing accessories: underwear lace, lace, bow, cartoon graphics, insoles.....

超声波切割 Ultrasonic cutting

超声波切刀式切割机是直接将超声波能量加载到切刀上，切刀就变成一把带有超声波的切刀。在切割材料时，材料主要是被超声波能量软化和熔化的，切刀的刀口只是起到切缝定位、超声波能量输出、分隔材料的作用。这种切割方式适用于粗、厚、长等不方便设置砧板的材料的切割。如炼胶机输出的生胶分切，管子切割，冻肉、糖果、巧克力切割，印刷线路板，或手持式切割机.....

Ultrasonic cutter type cutting machine is a direct load of ultrasonic energy to the cutter. The cutter becomes a cutter with an ultrasonic wave. In cutting the material, the material is mainly softened and melted by ultrasonic energy, and the cutting edge is only. It plays the role of slot positioning, ultrasonic energy output and material separation. This cutting method is suitable for thick, thick and long materials which are not convenient to set up cutting board. The cutting. Such as rubber mill output of raw rubber slitting, pipe cutting, frozen meat, Candy, chocolate cutting, printed circuit board, or hand-held cutting machine, etc.....



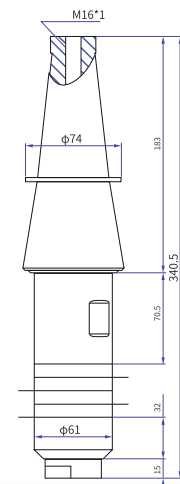
15KHz换能器/振动子

15KHztransducer

DW15K-603010-4B



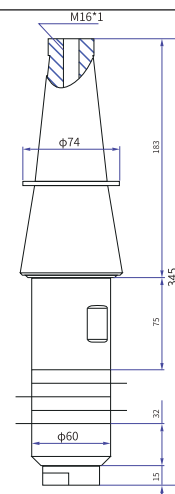
功率 power	W	2600
频率范围 Frequency range	kHz	15KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	11000
变幅杆螺牙 Screw of booster		M16*1
换能器材料 Transducer material		CR-40



DW15K-603010-4Y



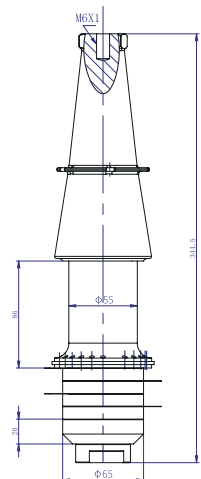
功率 power	W	2600
频率范围 Frequency range	kHz	15KHz
阻抗范围 Impedance range	Ω	$\leq 15\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	9500
变幅杆螺牙 Screw of booster		M16*1
换能器材料 Transducer material		CR-40



DW15K-653010-4B



功率 power	W	3000
频率范围 Frequency range	kHz	15KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	12000
变幅杆螺牙 Screw of booster		M16*1
换能器材料 Transducer material		CR-40





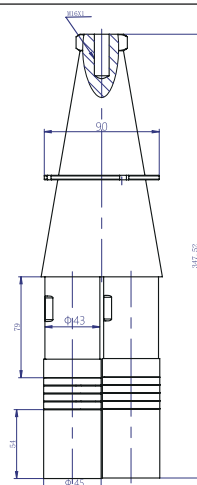
15KHz 换能器/振动子

15KHztransducer

DW15K-45176.5-4YS



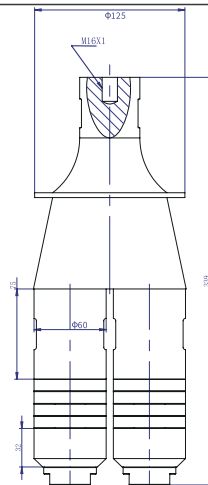
功率 power	W	3200
频率范围 Frequency range	kHz	15KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	17500
变幅杆螺牙 Screw of booster		M16*1
换能器材料 Transducer material		CR-40



DW15K-603010-4YS

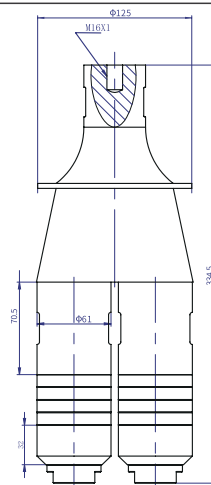


功率 power	W	4200
频率范围 Frequency range	kHz	15KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-8	黄片 black ceramic
电容范围 Capacitance range	pf	19000
变幅杆螺牙 Screw of booster		M16*1
换能器材料 Transducer material		CR-40



DW15K-603010-4BS

功率 power	W	4200
频率范围 Frequency range	kHz	15KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	19000
变幅杆螺牙 Screw of booster		M16*1
换能器材料 Transducer material		CR-40





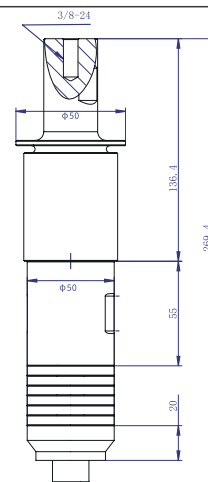
18KHz换能器/振动子

18KHztransducer

DW18K-50176.5-6Y



功率 power	W	2000
频率范围 Frequency range	kHz	18KHz
阻抗范围 Impedance range	Ω	$\leq 20\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	16300
变幅杆镙牙 Screw of booster		3/8-24
换能器材料 Transducer material		CR-40



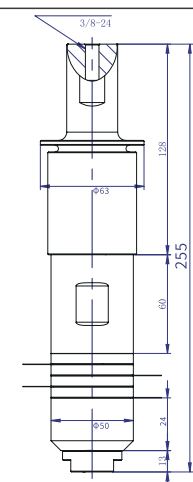
20KHz换能器/振动子

20KHztransducer

DW20K-50176.5-4Y



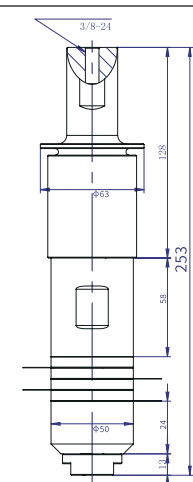
功率 power	W	2000
频率范围 Frequency range	kHz	20KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	12000
变幅杆镙牙 Screw of booster		3/8-24
换能器材料 Transducer material		CR-40



DW20K-50176.5-4B



功率 power	W	2000
频率范围 Frequency range	kHz	20KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	15000
变幅杆镙牙 Screw of booster		3/8-24
换能器材料 Transducer material		CR-40





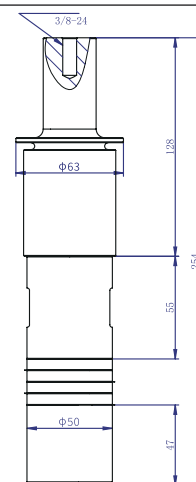
20KHz 换能器/振动子

20KHztransducer

DW20K-50206-4Y



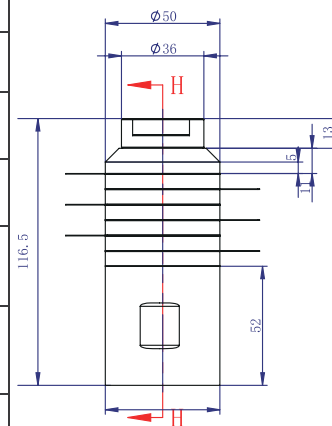
功率 power	W	2000
频率范围 Frequency range	kHz	20KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	12000
变幅杆螺牙 Screw of booster		3/8-24
换能器材料 Transducer material		CR-40



DW20K-50206-6B



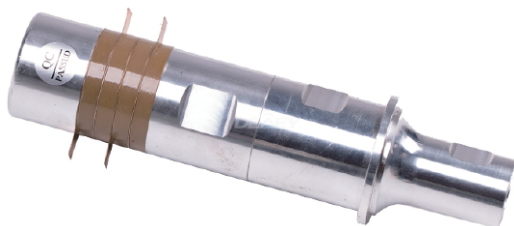
功率 power	W	3000
频率范围 Frequency range	kHz	20KHz
阻抗范围 Impedance range	Ω	$\leq 6\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	21000
变幅杆螺牙 Screw of booster		3/8-24
换能器材料 Transducer material		CR-40



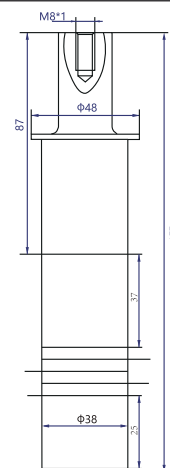
28KHz 换能器/振动子

28KHztransducer

DW28K-38156-4Y



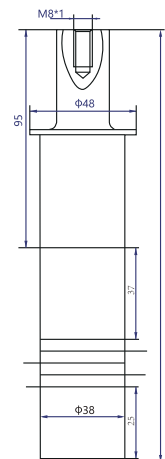
功率 power	W	1200
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	7000
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		7075-铝



DW28K-38156-4Y



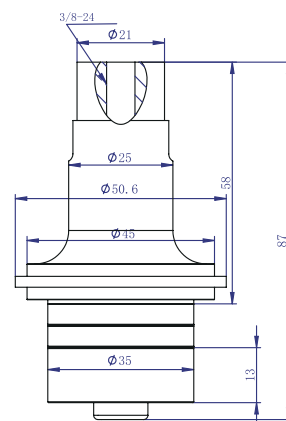
功率 power	W	1200
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 10\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	7000
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		CR-40



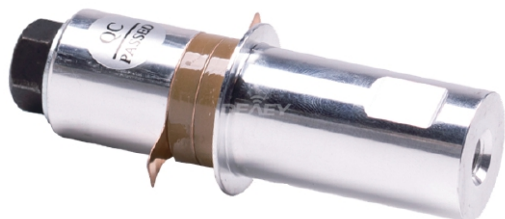
DW28K-35155.5-2B



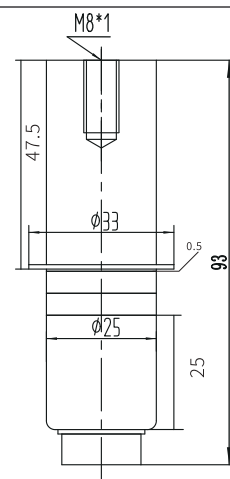
功率 power	W	300
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 12\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	4200
变幅杆螺牙 Screw of booster		3/8-24
换能器材料 Transducer material		7075-铝



DW28K-25105-2Y



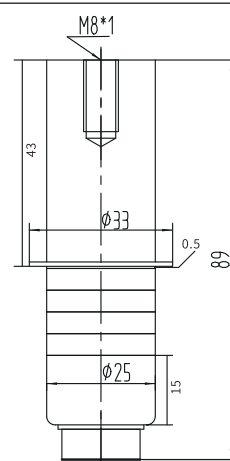
功率 power	W	300
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 15\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	1600
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		7075-铝



DW28K-25105-4Y



功率 power	W	500
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 13\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	3500
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		7075-铝





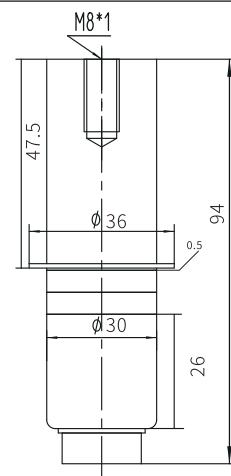
28KHz 换能器/振动力

28KHztransducer

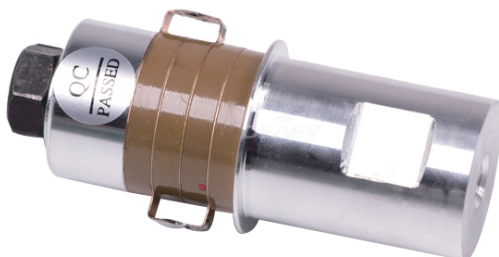
DW28K-30125-2Y



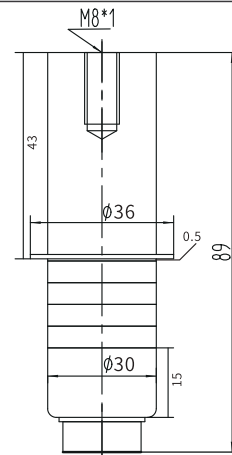
功率 power	W	500
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 20\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	2200
变幅杆螺牙 Screw of booster		3/8-24
换能器材料 Transducer material		7075-铝



DW28K-30125-4Y



功率 power	W	800
频率范围 Frequency range	kHz	28KHz
阻抗范围 Impedance range	Ω	$\leq 20\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	2200
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		7075-铝



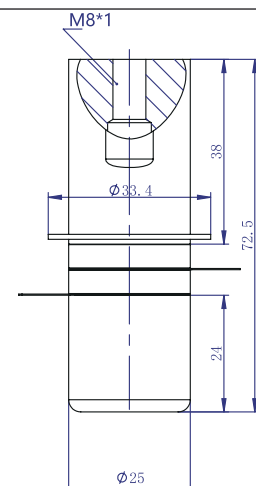
35KHz 换能器/振动力

35KHztransducer

DW35K-25105-2B



功率 power	W	300
频率范围 Frequency range	kHz	35KHz
阻抗范围 Impedance range	Ω	$\leq 20\Omega$
晶片材料 Chip materials	PZT-4	黑片 black ceramic
电容范围 Capacitance range	pf	2300
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		7075-铝





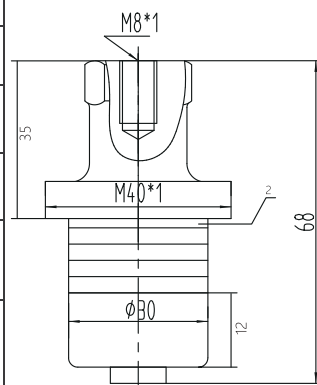
欧美款换能器/振动子

European and American style transducer/vibrator

DW35K-30123-4Y-J



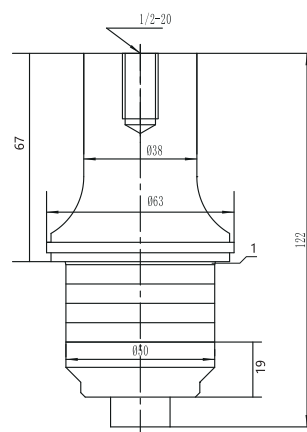
功率 power	W	1200
频率范围 Frequency range	kHz	35KHz
阻抗范围 Impedance range	Ω	$\leq 20\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	2200
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		Ti-钛合金



DW20K-50206.5-4Y-J



功率 power	W	2000
频率范围 Frequency range	kHz	20KHz
阻抗范围 Impedance range	Ω	$\leq 6\Omega$
晶片材料 Chip materials	PZT-8	黄片 yellow ceramic
电容范围 Capacitance range	pf	12000
变幅杆螺牙 Screw of booster		3/8-24
换能器材料 Transducer material		7075-铝



BNX-40K-4TH

功率 power	W	500
频率范围 Frequency range	kHz	40KHz
电容范围 Capacitance range	pf	5300
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		Ti-钛合金



DK-20K-41C30

功率 power	W	2000
频率范围 Frequency range	kHz	20KHz
电容范围 Capacitance range	pf	12000
变幅杆螺牙 Screw of booster		1/2-20
换能器材料 Transducer material		Ti-钛合金



BNX-20K-803

功率 power	W	1500
频率范围 Frequency range	kHz	20KHz
电容范围 Capacitance range	pf	12000
变幅杆螺牙 Screw of booster		1/2-20
换能器材料 Transducer material		Ti-钛合金

HEM-35K-KHS35

功率 power	W	1200
频率范围 Frequency range	kHz	35KHz
电容范围 Capacitance range	pf	5300
变幅杆螺牙 Screw of booster		M8*1
换能器材料 Transducer material		Ti-钛合金



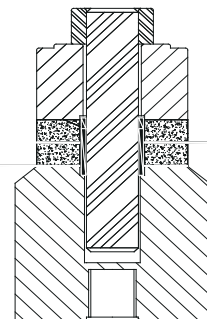
清洗机换能器/振动子

Cleaning machine transducer

DW-28KHz60W



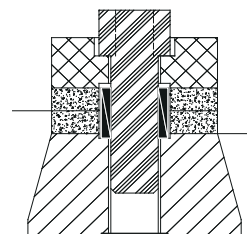
功率 power	W	50
谐振频率 Resonant frequency	kHz	28 ± 0.5
谐振阻抗 Harmonic impedance	Ω	$\leq 15\Omega$
绝缘阻抗 Insulation resistance	M Ω	≥ 100
静态电容 Static capacitance	pf	$3800 \pm 5\%$
直径*高度 Diameter * height	mm	45.0 * 77.0
晶片尺寸 Chip size	mm	35*15*5.5



DW-40kHz-60W



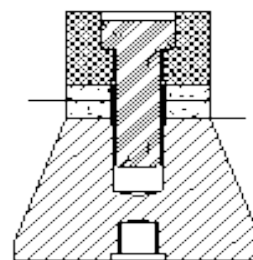
功率 power	W	50
谐振频率 Resonant frequency	kHz	40 ± 0.5
谐振阻抗 Harmonic impedance	Ω	$\leq 15\Omega$
绝缘阻抗 Insulation resistance	M Ω	≥ 100
静态电容 Static capacitance	pf	$4100 \pm 5\%$
直径*高度 Diameter * height	mm	45.0 * 45.8
晶片尺寸 Chip size	mm	35*15*5.2



DW-28kHz60W



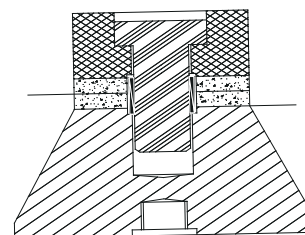
功率 power	W	60
谐振频率 Resonant frequency	kHz	28 ± 0.5
谐振阻抗 Harmonic impedance	Ω	$\leq 15\Omega$
绝缘阻抗 Insulation resistance	M Ω	≥ 100
静态电容 Static capacitance	pf	$4500 \pm 5\%$
直径*高度 Diameter * height	mm	59.0 * 67.5
晶片尺寸 Chip size	mm	38*15*5.0



DW-28kHz100W



功率 power	W	100
谐振频率 Resonant frequency	kHz	28 ± 0.5
谐振阻抗 Harmonic impedance	Ω	$\leq 15\Omega$
绝缘阻抗 Insulation resistance	M Ω	≥ 100
静态电容 Static capacitance	pf	$6300 \pm 5\%$
直径*高度 Diameter * height	mm	67.0 * 67.5
晶片尺寸 Chip size	mm	50*17*5.2





洁牙换能器/振动子

Dental cleaning transducer

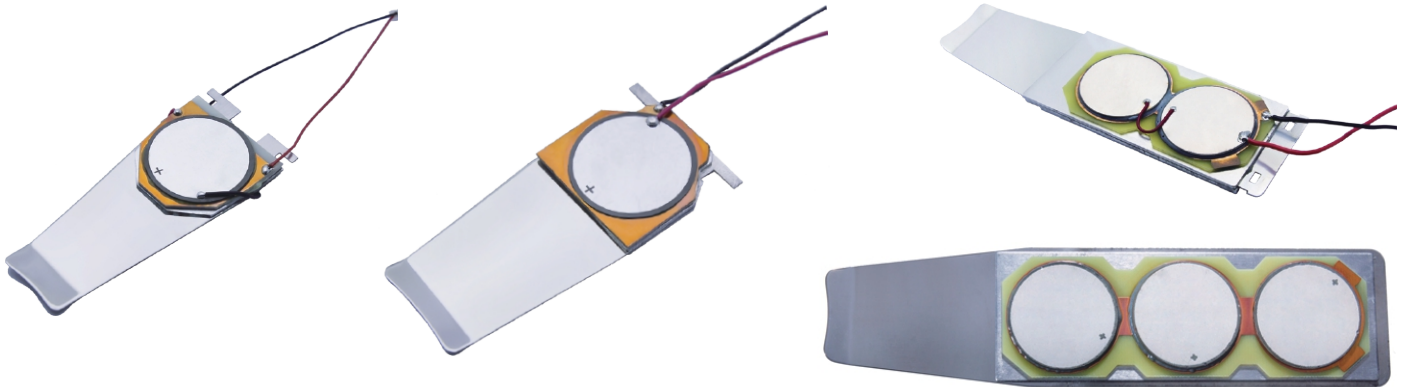


类型 Type	产品型号 Model	静态电容 C (PF)	频率 Fr(KHz)	阻抗 Ro(Ω)	外形尺寸 size		表面处理 Surface treatment
					直径(mm) Diameter	高度(mm) Height	
超声波换能器 Ultrasonic transducer	DW3039B	3750±10%	39±2	≤150	30	96.8	阳极
超声波换能器 Ultrasonic transducer	DW2926B	5100±10%	26±2	≤150	29	174	阳极
超声波换能器 Ultrasonic transducer	DW2458B	3000±10%	58±2	≤150	24	161.78	阳极
超声波换能器 Ultrasonic transducer	DW3250B	2600±10%	50±2	≤200	32	84.5	阳极
超声波换能器 Ultrasonic transducer	DW1538B	1500±10%	38±2	≤300	20.5	63.3	阳极
超声波换能器 Ultrasonic transducer	DW1537-B2	530±10%	37±2	≤800	20.8	63.35	阳极
超声波换能器 Ultrasonic transducer	DW1537-B2	1000±10%	37±2	≤300	20.7	73.5	阳极
超声波换能器 Ultrasonic transducer	DW1533B	2500±10%	33±2	≤300	20.6	86	阳极
超声波换能器 Ultrasonic transducer	DW1549B	2900±10%	49±2	≤200	19	104	阳极
超声波换能器 Ultrasonic transducer	DW1546B	1300±10%	46±2	≤150	18	56.4	阳极
超声波换能器 Ultrasonic transducer	DW1030B	1500±10%	30±2	≤300	12	96.7	阳极
超声波换能器 Ultrasonic transducer	DW1037-B1	810±10%	37±2	≤600	10	90.7	阳极
超声波换能器 Ultrasonic transducer	DW1034B	1800±10%	34±2	≤300	12	83.8	阳极
超声波换能器 Ultrasonic transducer	DW1040B	700±10%	40±2	≤2000	10	56.5	阳极
超声波换能器 Ultrasonic transducer	DW1037-B2	450±10%	37±2	≤1500	13.5	63.3	阳极

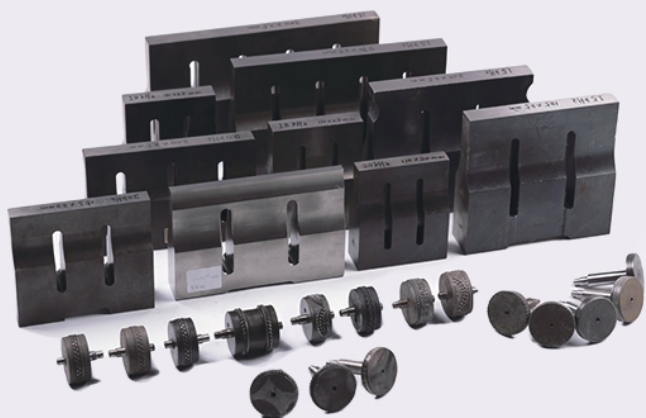


美容换能器/振动子

Beauty transducer



类型 Type	产品型号 Model	静态电容 C (PF)	谐振频率 Fr(KHz)	谐振阻抗 Ro(Ω)	外形尺寸 size		
					长度(mm) Length	高度(mm) Highly	厚度(mm) Thickness
超声波铲皮刀 Ultrasonic skin scraper	DW282000-1D	5000±20%	24	≤300	78	35	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW282000-1S	10000±20%	28	≤400	82	31	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW283000-1D	7000±20%	28	≤300	76	33	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW282000-1S	13500±15%	24	≤400	78	35	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW282000-1D	13500±15%	23.5	≤300	78	35	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW252000-1S	9000±20%	37	≤400	84	31	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW283000-1D	7500±20%	22	≤300	81	33	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW302000-1D	6600±20%	24	≤300	80	34	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW303000-2D	8000±20%	26	≤300	121	35	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW302000-2S	6500±20%	25	≤400	120	34	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW253000-2D	8500±20%	25	≤300	121	30	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW252000-3D	9000±20%	24	≤300	147	34	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW282000-2D	8500±20%	25	≤300	121	34	0.5
超声波铲皮刀 Ultrasonic skin scraper	DW282000-3D	9000±20%	24	≤300	147	37	0.5



超声波模具(工具)头

Ultrasonic tool head

20

刀模类型 Die cutter type	长度(mm) length	宽度(mm) Width	刀模螺牙 Die cutter teeth	材质 Texture	刀模类型 Die cutter type	长度(mm) length	度(mm) Width	刀模螺牙 Die cutter teeth	材质 Texture
110*25mm 15K-刀模	110mm	25mm	M16*1	钢	110*20mm 20K-刀模	110mm	20mm	3/8--24 M12*1.75	钢
150*40mm 15K-刀模	150mm	40mm	M16*1	钢	120*20mm 20K-刀模	120mm	20mm	3/8--24 M12*1.75	钢
160*25mm 15K-刀模	160mm	25mm	M16*1	钢	150*35mm 20K-刀模	150mm	35mm	3/8--24 M12*1.75	钢
160*53mm 15K-刀模	160mm	53mm	M16*1	钢	160*55mm 20K-刀模	160mm	55mm	3/8--24 M12*1.75	钢
270*25mm 15K-刀模	270mm	25mm	M16*1	钢	200*20mm 20K-刀模	200mm	20mm	3/8--24 M12*1.75	钢
300*25mm 15K-刀模	300mm	25mm	M16*1	钢	φ60 20K-圆模			3/8--24 M12*1.75	钢
330*25mm 15K-刀模	330mm	25mm	M16*1	钢	φ100 20K-圆模			3/8--24 M12*1.75	钢
110*25mm 18K-刀模	110mm	25mm	M12*1.75	钢	其他尺寸可定制				
200*25mm 18K-刀模	200mm	25mm	M12*1.75	钢					
110*15mm 20K-刀模	110mm	15mm	3/8--24 M12*1.75	钢					

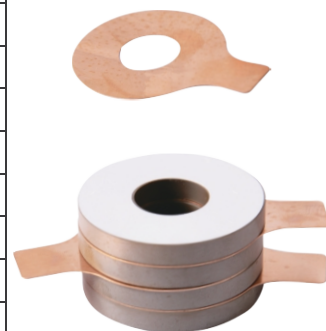


换能器电极片

Transducer electrode plate



材料 Materials	外径 Outer diameter	内径 Inner diameter	厚度 Thickness
铍青铜	25mm	10mm	0.25mm
铍青铜	30mm	12mm	0.25mm
铍青铜	35mm	15mm	0.25mm
铍青铜	50mm	17mm	0.3mm
铍青铜	50mm	20mm	0.3mm
铍青铜	60mm	30mm	0.3mm
铍青铜	45mm	17mm	0.3mm
铍青铜	45mm	15mm	0.3mm
铍青铜	38mm	15mm	0.3mm
铍青铜	65mm	30mm	0.3mm



高频钛合金点焊/铆焊头

High frequency titanium alloy spot welding/riveting welding head



材料 Materials	应用领域 Application area	焊接面积 Welding area	频率(KHz) Frequency
钛合金 (Titanium alloy)	平面口罩耳绳焊接 Plane mask earstring welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	KN95口罩耳绳焊接 KN95 mask earstring welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	汽车隔音棉焊接 Automobile sound insulation cotton welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	塑胶防水板焊接 Plastic waterproof plate welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	养殖清粪带焊接 Breeding clear dung belt welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	魔术贴焊接 Velcro welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	无纺布焊接 Nonwoven fabric welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	PVC塑胶焊接 PVC plastic welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	PP塑胶焊接 PP plastic welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	PE塑胶焊接 PE plastic welding	3-12mm	28K/30K/35k



材料 Materials	应用领域 Application area	焊接面积 Welding area	频率(KHz) Frequency
钛合金 (Titanium alloy)	塑胶穿刺焊接 Plastic puncture welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	螺母铆焊 Nut maohan	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	织带裁切 Ribbon cutting	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	过滤棉焊接 Filter cotton welding	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	液体分散 Liquid dispersion	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	液体萃取 Liquid extraction	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	液体乳化 Liquid emulsion	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	细胞破碎 Cell disruption	3-12mm	28K/30K/35k
钛合金 (Titanium alloy)	ABS塑胶焊接 ABS plastic welding	3-12mm	28K/30K/35k





超声波阻抗分析仪

Ultrasonic impedance analyzer

PV520A

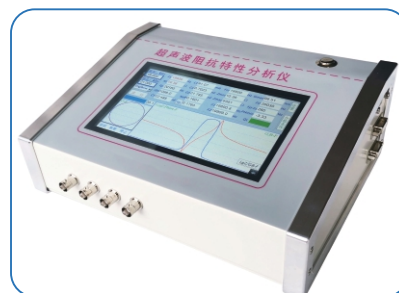


部分名称 Part Name	阻抗分析仪 Impedance Analyzer	频率范围 Frequency Range	1 kHz~500 KHz
基本精度 Basic Accuracy	<0.5%	扫描速度 Scan Speed	5秒/一次通过(相当于600个扫描点) 5 sec/one pass (equivalent to 600 scan dots)
频率精度 Frequency Accuracy	±10 ppm	扩展细节 Amplification	压电陶瓷, 超声换能器, 功率超声 Piezoelectric Ceramic, Ultrasonic Transducer, Power Ultrasonic
相位精度 Phase Accuracy	0.15度 0.15 degree	温度范围 Temperature Range	10~40°C
阻抗范围 Impedance Range	0.1Ω~1MΩ	频率步进 Frequency Step	0.1Hz
测量速度 Speed Of Measuring	5S/一次通过(600分) 5s / One Pass(600san point)	电源 Power Supply	AC100V~AC250V 50~60 Hz,30W
净重 Net Weight	3.5kg	尺寸 Dimensions	240*190*100mm

超声波阻抗分析仪特点 Characteristics of ultrasonic impedance analyzer

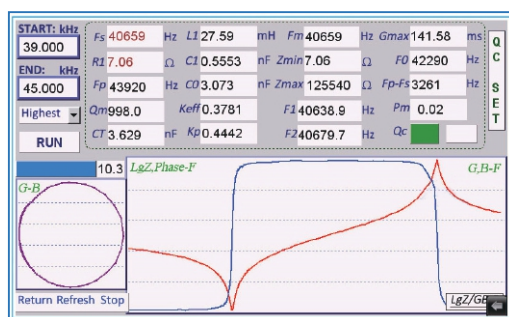
1. 阻抗测量精密度高, 准确到0.1Hz
2. 通过导纳圆和对数容易进行缺陷判断
3. 检测结果区分谐振点和半功率点
4. 测试数据电脑可存储和打印并可追溯数据源
5. 自动筛选和统计, 可设置参数筛选
6. 自动化操作效率高, 操作简单, 没有人工误差
7. 简单、易用、指标和图形相结合、参数准确等。换能器阻抗测试仪可以测量和评定压电陶瓷片、压电换能器、超声波清洗机、超声波焊接机、超声波粉碎机、超声波加工设备零件、设备的参数和性能优劣。通过导纳圆图与电导图进行判断, 比较直观。

1. Impedance measurement precision is high, accurate to 0.1Hz
2. Defects can be easily judged by admittance circle and logarithm
3. The detection results distinguish the vibration point and the half power point
4. Test data can be stored and printed by computer and can be traced back to data sources
5. Automatic screening and statistics, parameter screening can be set
6. High automatic operation efficiency, simple operation, no manual error
7. Simple, easy to use, the combination of indicators and graphs, accurate parameters, etc. transducer Impedance tester can measure and evaluate piezoelectric ceramic plate, piezoelectric transducer, ultrasonic Sound wave cleaning machine, ultrasonic welding machine, ultrasonic grinding machine, ultrasonic processing Equipment and other components, equipment parameters and performance advantages and disadvantages. Through the admittance circle diagram with electricity Guide map to judge, more intuitive.



仪器检测参数 Instrument test parameters

1. 超声波产品的谐振频率Fs
 2. 反谐振频率Fp
 3. 静电容C0
 4. 动态阻抗R1
 5. 动态电容
 6. 动态电感L1
 7. 自由电容
 8. 自由介电常数
 9. 机械品质因素Qm
 10. 机电耦合系数Keff
 11. 平面机电耦合系数Kp
 12. 半功率点F1与F2
 13. 导纳Gmax
 14. 阻抗Zmax
 15. 阻抗Zmin
1. Resonant frequency FS of ultrasonic products
 2. Anti-resonant frequency FP
 3. electrostatic capacity C0
 4. Dynamic impedance R1
 5. dynamic capacitance
 6. Dynamic inductance L1
 7. free capacitance
 8. Free dielectric constant
 9. mechanical quality factor QM
 10. Electromechanical coupling coefficient KEFF
 11. Planar electromechanical coupling coefficient Kp
 12. Half power points F1 and F2
 13. Admittance Gmax
 14. impedance Zmax
 15. Impedance Zmin



20K换能器结构件
Structure of 20K transducer

前盖材料 The cover material	6061Al
后盖材料 Back cover material	7075Al
变幅杆材料 Lock material	Cr40
变幅杆螺母 Screw of booster	3/8-24/M12*1.75
工艺处理 Fabrication processing	阳极氧化+端面研磨 Anodizing + end grinding



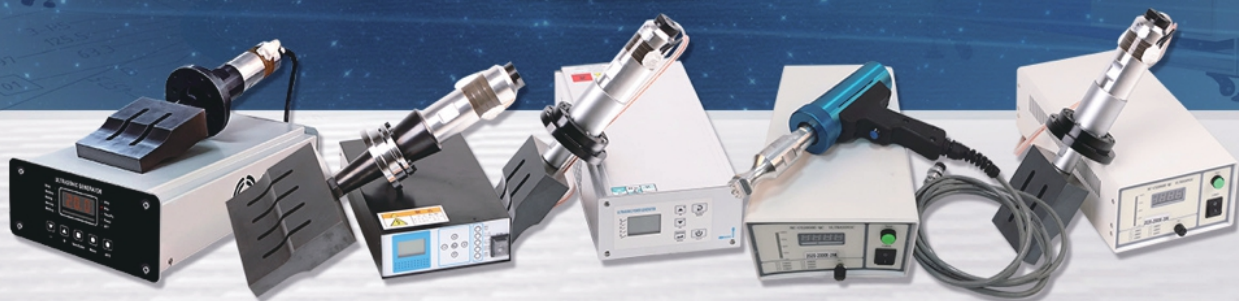
28K手持点焊枪配件
28K hand-held spot welding gun fittings

外壳 Outer shell	带进气孔 Into the pores
手柄 Hand shank	手枪式 Pistol
开关 Switch	红波点动按钮 Red wave clicks the button
密封圈 Seal ring	O型 Type O
工艺处理 Fabrication processing	阳极氧化 Anodize

SPECIAL ULTRASONIC GENERATOR AND 20KHZ / 15KHZ TRANSDUCER PARTS FOR MASK MACHINE

Source manufacturer | Technical support | Technical support

VIEW MORE



超声波塑料/无纺布焊接系统

Ultrasonic welding system for plastics and non-woven fabrics

15kHz-2500W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	15KHz
功率 Power	W	2500W
超声波发生器 Ultrasonic generator		PLC数字追频 PLC Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	50-300*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

15kHz-3200W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	15KHz
功率 Power	W	3200W
超声波发生器 Ultrasonic generator		PLC数字追频 PLC Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	100-600*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

15kHz-4200W发生器系统



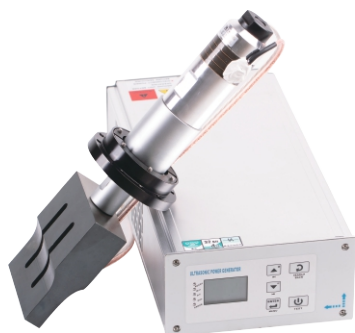
输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	KHz	15KHz
功率 Power	W	4200W
超声波发生器 Ultrasonic generator		PLC数字追频 PLC Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	100-600*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

20kHz-2500W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	KHz	20KHz
功率 Power	W	2500W
超声波发生器 Ultrasonic generator		PLC数字追频 PLC Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-20



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

15kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	KHz	15KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-300*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

15kHz-4200W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	KHz	15KHz
功率 Power	W	4200W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	100-600*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

20kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	20KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-20



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

20kHz-2600W发生器系统



短发波

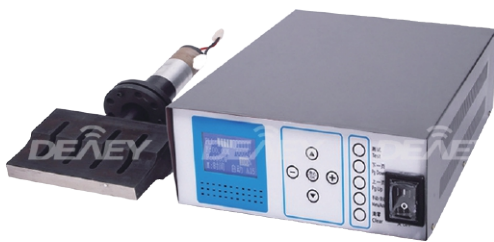
输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	20KHz
功率 Power	W	2600W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-20



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

18kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	18KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-25



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

18kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	18KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-25



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

20kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	20KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-20



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

15kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	15KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-300*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

20kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	20KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-20



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

15kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	15KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-300*5-55



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

20kHz-2000W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	20KHz
功率 Power	W	2000W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	30-200*5-20



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 换能器1支(黄片/黑片选配)

28kHz-1200W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	28KHz
功率 Power	W	1200W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		数码管显示 Digital tube display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	10*10



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 枪式换能器1支

28kHz-1200W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	28KHz
功率 Power	W	1200W
超声波发生器 Ultrasonic generator		模拟电路 artificial circuit
操作界面 Operation interface		液晶显示 Liquid crystal display
焊接时间 Weld time		0.1s-9.9s
焊接面积 Welding area	mm	10*10



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 枪式换能器1支

28kHz-1200W发生器系统



输入电压 Input voltage	V	AC220V-50Hz
频率范围 Frequency range	kHz	28KHz
功率 Power	W	1200W
超声波发生器 Ultrasonic generator		数字追频 Digital after frequency
操作界面 Operation interface		液晶显示 Liquid crystal display
振幅调节 Amplitude modulation		10%-100%可调
焊接面积 Welding area	mm	10*10



产品明细:

- ① 发生器1台
- ② 法兰盘1个
- ③ 焊头1个(选配)
- ④ 枪式换能器1支