

花园村简介

INTRODUCTION OF HUAYUAN VILLAGE

花园村地处浙江省中部，于1342年建村，已有近700年的历史。花园村经济发达、村民富裕，2024年，花园村实现营业收入786亿元，其中，花园集团实现营业收入490亿元，村民人均年收入达18.2万元。花园村是中国十大国际名村，在中国名村综合影响力300佳排名第一。花园村被誉为“浙江第一村”“中国农村现代化的榜样”，同时还被授予国家AAAA级旅游景区、中国红木家具第一村、中国十大最美乡村、中国十佳生态文明村等上百项省级以上荣誉称号。

Huayuan Village is located in the central part of Zhejiang Province. It was founded in 1342 and has a history of nearly 700 years. Huayuan Village has a developed economy and prosperous villagers. In 2024, Huayuan Village has achieved a business income of 78.6 billion yuan, of which Huayuan Group has achieved a business income of 49 billion yuan, and the per capita annual income of villagers has reached 182000 yuan. Huayuan Village is one of the top ten international famous villages in China, ranking first among the top 300 comprehensive influential villages in China. Huayuan Village is known as the "First Village in Zhejiang" and a model of rural modernization in China. It has also been awarded hundreds of provincial-level and above honorary titles, including national AAAA level tourist attraction, China's first village for rosewood furniture, China's top ten most beautiful villages, and China's top ten ecological civilization villages.

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国家高新技术企业 National high-tech enterprise



花园金波科技股份有限公司
HUAYUAN JINBO TECHNOLOGY CO., LTD

企业简介

Company Profile

花园金波科技股份有限公司隶属于花园集团，旗下拥有全资子公司上海金波弹性元件有限公司、浙江花园鸿盾安防有限公司，是国家高新技术企业、中国电子行业协会理事单位、国家火炬计划重点项目，拥有50多项创新专利。

金属波纹管是工业装备的关键基础零部件，它以独有的特性被广泛应用于液体动态密封、压力传感控制和管路柔性连接等方面，在航天航空、轨道交通、船舶、核电、化工、太阳能、汽车制造和仪器仪表及工业智能设备等领域都有着广泛的应用。

公司推进国际化发展战略，紧跟国际技术潮流，与日本富士精工株式会社、日本大和衡器、韩国现代、法国马肯依玛士、英国斯派莎克等国内外知名企业保持良好业务关系并正在积极拓展其他海外市场。

Huayuan Jinbo Technology Co., Ltd. is affiliated with Huayuan Group and has wholly-owned subsidiaries Shanghai Jinbo Elastic Components Co., Ltd. and Zhejiang Huayuan Hongdun Security Co., Ltd. It is a national high-tech enterprise, a member unit of the China Electronics Industry Association, and a key project of the National Torch Plan. It has more than 50 innovative patents

Metal bellows, as critical foundational components in industrial equipment, are widely utilized for their unique properties in liquid dynamic sealing, pressure sensing and control, and flexible pipeline connections. They find extensive applications across aerospace, rail transportation, shipbuilding, nuclear power, chemical engineering, solar energy, automotive manufacturing, instrumentation, and industrial intelligent equipment sectors.

Our company is advancing its international development strategy while closely following global technological trends. It maintains strong partnerships with renowned domestic and international enterprises such as Japan's Fuji Seiko Co., Ltd., Yamato Scale, South Korea's Hyundai, France's Markem-Imaje, and the UK's Spirax-Sarco, while actively expanding into additional overseas markets.

花园集团简介

Introduction of Huanyuan Group

花园集团是国家级企业集团、浙江省雄鹰企业、浙江省民营经济总部领军企业、浙江省中小企业协会会长单位，目前拥有60多家全资和控股公司，名列2024中国民营企业500强第285位、中国制造业企业500强第278位、浙江省百强企业第61位，曾荣获“全国新型城镇化突出贡献企业”“中国民营企业社会责任优秀案例”“浙江民营企业社会责任100家领先企业”等诸多荣誉。在2024年，花园集团实现营业收入490亿元。目前，花园集团主要涉及生物与医药、新能源与新材料、红木家具与木制品、新建材与建筑、文化旅游与教育卫生等五大产业，拥有上市（含被收购）企业2家，国家高新技术企业9家，省级以上专精特新企业8家，国家级博士后科研工作站等省级以上创新平台16个。

Huanyuan Group is a national-level enterprise group, recognized as a Zhejiang Provincial Eagle Enterprise, a Leading Private Economy Headquarters Enterprise in Zhejiang, and the Chairman Unit of the Zhejiang Provincial Small and Medium Enterprises Association. Currently, Huayuan group owns over 60 wholly-owned and holding companies. It ranked 285th in the 2024 China Top 500 Private Enterprises List, 278th in the China Top 500 Manufacturing Enterprises List, and 61st in the Zhejiang Top 100 Enterprises List. The group has received numerous honors, including "National Outstanding Contributor to New Urbanization," "Outstanding Case of Social Responsibility among Chinese Private Enterprises," and "One of Zhejiang's Top 100 Leading Private Enterprises in Social Responsibility." In 2024, Huayuan Group achieved annual revenue of RMB 49 billion. Currently, Huayuan group primarily operates in five core industries: biotechnology and pharmaceuticals, new energy and new materials, rosewood furniture and wood products, new building materials and construction, and cultural tourism, education, and healthcare. It owns 2 listed companies (including acquired ones), 9 national high-tech enterprises, 8 provincial-level "Specialized, Sophisticated, Distinctive, and Innovative" enterprises, and 16 provincial or national-level innovation platforms, including a national postdoctoral research workstation.



求实创新
求强共富

公司获得IATF16949:2016汽车质量管理体系认证、ISO9001:2015质量体系认证、ISO14001:2015环境管理体系认证、ISO45001:2018职业健康安全管理体系认证。

Huayuan Jinbo has obtained IATF 16949:2016 Automotive Quality Management System Certification ISO9001:2015 Quality System Certification ISO14001:2015 Environmental Management System Certification ISO45001:2018 Occupational Health and Safety Management System Certification.



公司拥有51项专利，其中11项发明专利、37项实用新型专利，3项外观专利、5项软件著作权

Our company has 51 patents, including 11 invention patents, 37 utility model patents, 3 design patents, and 5 software copyrights



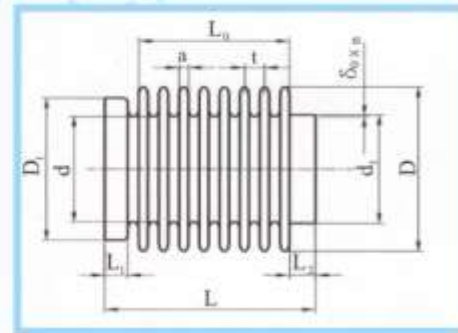


金属波纹管 | Metal bellows

波纹管的结构

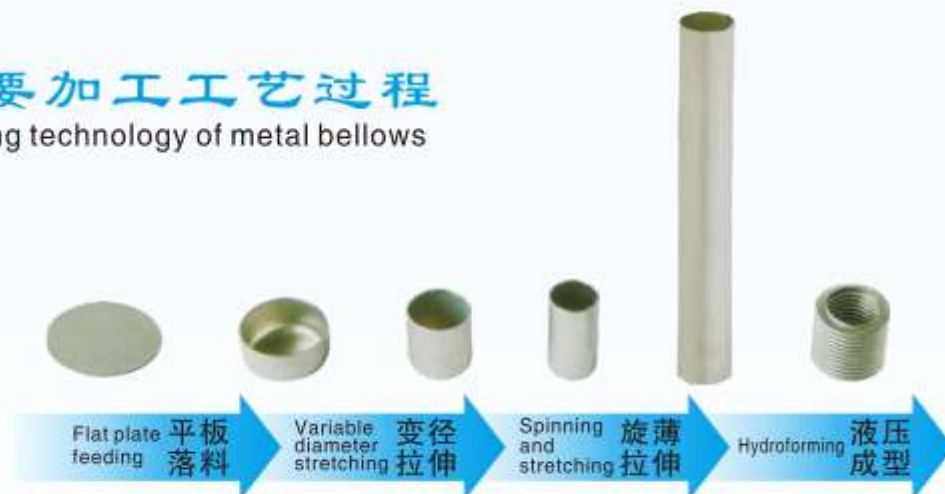
Structure of metal bellows

D: 外径 d: 内径
 δ_0 : 波纹管单层壁厚 t: 波距 a: 波厚
 L: 总长 n: 波纹管层数
 L_1 : 内配合端接口长度 L_2 : 外配合端接口长度
 D_1 : 内配合直径 d_1 : 外配合直径



波纹管主要加工工艺过程

The main processing technology of metal bellows



波纹管的贮存条件

Storage conditions for metal bellows

环境温度-35~40℃ Environmental temperature -35~40℃
 相对湿度不大于85% Relative temperature not exceeding 85%
 周围环境及空气介质中不应含有能引起波纹管腐蚀的有害介质。
 The surrounding environment and air medium should not contain harmful media that can cause corrosion of corrugated pipes.

民用领域

Civilian field



管道阀门
pipeline valve



太阳能海水淡化工程
Solar powered seawater desalination project



称重衡器
Weighing apparatus



压力控制器
Pressure controller



检测仪器、仪表
Testing instruments and meters



生产设备 | Production equipment



波纹管产品 | Bellows





电子车间 Electronic workshop

无尘防静电车间，占地面积1600平方米，采用十万级净化标准设计，配备多条全新高精度西门子高速贴片生产线，全程配置在线SPI和在线AOI，对整个生产过程实行实时监控，防止过程控制失效。日生产能力达600万点，可生产01005-200X125mm'的元器件及0.35pitch的BGA和POP叠层封装工艺。

The dust-free and anti-static workshop covers an area of 1600 square meters and is designed with a 100000 level purification standard. It is equipped with multiple new high-precision Siemens high-speed SMT production lines and is fully equipped with online SPI and online AOI. Real time monitoring of the entire production process is implemented to prevent process control failure. The daily production capacity reaches 6 million points, capable of producing 01005-200X125mm' components and 0.35pitch BGA and POP stacked packaging processes.



(SMT 无尘车间)
SMT dust-free room



电子产品 Electronic products

SMT主要设备介绍 (Introduction of SMT Main Equipment)

全自动锡膏印刷机MPM Momentum125(美国)

Fully automatic solder paste printing machine MPM Momentum125 (USA)

在线锡膏检查机SPIkoh young8080(韩国)

online solder paste inspection machine SPIkoh young8080 (Korea)

西门子贴片机SIPLACED4I+D4I+D1I(德国)

Siemens surface mount machine SIPLACED4I+D4I+D1I (Germany)

HELLER1809回流炉 (美国)

HELLER1809 Reflux Furnace (USA)

在线光学检查机AOI VI 2K (法国)

Online optical inspection machine AOI VI 2K (France)

辅助设备配有X-RAY

Auxiliary equipment equipped with X-RAY

BGA返修台

BGA rework station

全自动分板机等

Fully automatic sorting machine, etc



(可贴01005 CHIP件和0.35pitch的BGA等)

Can be attached with 01005 CHIP parts and 0.35 pitch BGA, etc.

SMT加工项目 (SMT processing project)

专业SMT贴片、DIP插件、后焊、组装、测试等一条龙服务，专业电子元件采购渠道提供来料加工、代工代料等服务，满足客户多样化需求。对智能指纹锁、智能指纹保险箱、空气净化器、跑步机、蓝牙音箱、LED灯具等电子产品有丰富的制造经验。

We provide one-stop services including SMT mounting, DIP plug-in, post soldering, assembly, and testing. Our professional electronic component procurement channels offer services such as material processing and outsourcing to meet the diverse needs of our customers. Rich manufacturing experience in electronic products such as smart fingerprint locks, smart fingerprint safes, air purifiers, treadmills, Bluetooth speakers, LED lighting fixtures, etc





锡青铜、黄铜波纹管产品

Tin bronze and brass bellows



QSn6.5~0.1(使用温度: -60℃~+100℃)弹性、强度和耐蚀均好, 迟滞和弹性后效较小, 钎焊性较好, 广泛用作测量元件。

QSn6.5~0.1(usage temperature: -60℃~+100℃) has good elasticity, strength, and corrosion resistance, with small hysteresis and elastic aftereffects. It has good brazing properties and is widely used as a measuring element.



锡青铜、黄铜波纹管基本参数表 Tin bronze and brass bellows

序号 Number	外径 Outer Diameter D mm	内径 Inner Diameter d mm	壁厚 Wall Thickness s mm	波距 Wave Pitch t mm	波厚 thickness of convolution a mm	两端配合部分 Mating section at both ends			单波轴向刚度 Single Wave Stiffness N/mm	单波最大允许轴向位移 Maximum Elastic Displacement of Single Wave mm	最大耐压力 (内压) Maximum Pressure Resistance (Internal Pressure) MPa	有效面积 Effective Area F cm ²
						内配合直径 Inner Fitting Diameter D _i mm	外配合直径 Outer Fitting Diameter d _f mm	配合端长度 Fitting End Length l mm				
1	10	6.2	0.08 0.12	1.0	0.65	8	6.7	4	70.43 257.29	0.19 0.13	1.09 1.52	0.52
2	12	7.5	0.12	1.2	0.75	10	8	4	180.47	0.16	1.40	0.75
		8		1.4	0.8		8.5	2	279.42	0.18	1.36	0.79
3	15	8.8	0.12	1.8	1.1	13	9.3	4	76.97	0.29	1.20	1.11
		9.5	0.10 0.12			10.03	67.97	0.35	1.00	1.18		
			9.2				0.12	1.7	1.1		9.7	1.5
		10.5	0.09			1.7	1.1	11	0.8	53.94	0.36	0.85
10.5	0.12	1.5	0.9		10.54	2.6	133.03	0.32	1.76			
5	18	11.5	0.12	1.6	1.0	14	12.03	4	86.27	0.33	0.78	1.71
		11.5	0.10	1.5	0.9		12	1	48.81	0.39	0.59	
6	19	11.5	0.11	1.6	1.1		14	2.7	42.17	0.34	0.72	1.83
7	20	12.5	0.10 0.12	2.1	1.2	18	13.03	4	34.06	0.62	0.65	2.07
		60.01	0.51						0.76			
8	22	14	0.09	2.2	1.3	19.5	14.53	4	22.55	0.62	0.54	2.54
			0.10						31.21	0.51	0.58	
			0.12						54.93	0.43	0.68	
			9						23	13.5	0.09	
10	25	16.5	0.10 0.12	2.3	1.35	22	17.03	4	30.47	0.76	0.47	3.38
		53.54	0.62						0.56			
11	28	18	0.10 0.12	2.6	1.5	25	18.57	4	20.17	0.94	0.42	4.15
		35.36	0.78						0.50			
12	28.5	19.5	0.12	2.3	1.3	21		1.5	52.93	0.79	0.42	4.52
13	30	19.5	0.12	2.8	1.6	28.5	20.07	4	32.95	0.72	0.47	4.81
14	31	19.5	0.12	2.8	1.6	28.5	20.07	4	24.93	0.81	0.44	5.01
15	32.5	19.5	0.11	3.1	2	22		7	13.11	0.85	0.47	5.31
16	32	21.5	0.10 0.12	3.0	1.7	28	22.07	4	20.72	1.15	0.35	5.62
		36.28	0.96						0.44			
17	34	23.5	0.10	2.2	1.6		26.6	2.5	22.62	1.08	0.31	6.49
		23.5	0.12	2.45	1.5	25.5	23.93	2.2	39.62	0.96	0.37	
		23.5	0.12	2.5	1.5	22.5	23.93	1	39.62	0.97	0.37	
18	37	25	0.10 0.12	3.0	1.9		25.6	4	16.00	1.36	0.32	7.55
		27.97	1.31						0.37			
19	38	25.5	0.12 0.14	3.2	1.8	34	26.16	4	25.18	1.26	0.32	7.92
		40.44	1.08						0.38			
20	38.5	22.5	0.13	4.1	2.3		25.9	3	13.38	1.85	0.46	7.31
21	40	25	0.135	2.6	1.5		31	5	20.29	1.13	0.27	8.30
		27.5	0.12 0.14	3.4	2.0	36	28.1	5	27.13 43.58	1.26 1.13	0.32 0.38	8.95
			31	0.12 0.14	3.6	2.1	40	31.97	5	21.61 34.67	1.35 1.34	
22	45	31	0.12 0.14	3.6	2.1	40	31.97	5	18.54	1.41	0.24	14.73
		29.71	0.27									
24	55	37	0.14 0.16	4.2	2.4	50	37.96	5	19.18 28.85	1.62	0.24 0.28	16.62
			18.01						0.22			
25	60	41	0.16 0.18	4.5	2.5	55	42	5	27.09 38.85	1.8	0.24 0.28	20.03
			17.33						0.20			
			17.81						0.17			
26	79	55	0.16 0.18	5.4	3.0	70	56.02	6	25.49	2.01	0.18	35.26
			21.41						0.12			
26	100	75	0.16 0.20	6.0	3.6		76	7	42.27	2.16	0.20	60.13



铍青铜波纹管

Beryllium bronze bellows



Tbe2(使用温度: $-60^{\circ}\text{C} \sim +150^{\circ}\text{C}$) 具有很小的迟滞和弹性后效, 很高的弹性稳定性、耐腐蚀、无磁性, 多用于高精度的测量仪表中。

TBe2(usage temperature: $-60^{\circ}\text{C} \sim +150^{\circ}\text{C}$) has minimal hysteresis and elastic aftereffect, high elastic stability, corrosion resistance, and non-magnetic properties. It is often used in high-precision measuring instruments.

● 铍青铜波纹管基本参数表 Beryllium bronze bellows basic parameter table

序号 Number	外径 Outer Diameter D mm	内径 Inner Diameter d mm	壁厚 Wall Thickness s mm	波距 Wave Pitch t mm	波厚 thickness of convolution a mm	两端配合部分 Mating section at both ends			单波轴向刚度 Single Wave Stiffness N/mm	单波最大允许轴向位移 Maximum Elastic Displacement of Single Wave mm	最大耐压力 (内压) Maximum Pressure Resistance (Internal Pressure) MPa	有效面积 Effective Area F cm ²
						内配合直径 Inner Fitting Diameter D _i mm	外配合直径 Outer Fitting Diameter d _i mm	配合端长度 Fitting End Length l mm				
1	10	6.2	0.12	1.0	0.65	8	6.7	4	347.72	0.16	2.92	0.52
2	12	7.5	0.12	1.2	0.75	10	8	4	243.90	0.29	2.40	0.75
3	15	9.5	0.10	1.8	1.1	13	10.03	4	91.85	0.58	1.93	1.18
			0.12						163.04	0.51	2.3	
4	20	12.5	0.10	2.1	1.2	18	13.03	4	46.02	0.78	1.25	2.07
			0.12						81.11	0.66	1.46	
5	22	14	0.10	2.2	1.3	19.5	14.53	4	42.19	0.61	1.12	2.54
			0.12						74.24	0.61	1.32	
6	25	16.5	0.10	2.3	1.35	22	17.03	4	41.18	0.86	0.90	3.38
			0.12						72.36	0.86	1.08	
7	28	18	0.10	2.6	1.5	25	18.57	4	27.26	1.00	0.80	4.15
			0.12						47.79	1.00	0.96	
8	32	21.5	0.10	3.0	1.7	28	22.07	4	28.00	1.17	0.70	5.62
			0.12						49.04	1.17	0.84	
9	38	25.5	0.12	3.2	1.8	34	26.16	4	34.03	1.26	0.64	7.92
			0.14						54.65	1.26	0.72	
10	40	27.5	0.12	3.4	2.0	36	28.10	5	36.67	1.26	0.64	8.95
			0.14						58.89	1.26	0.72	
11	45	31	0.12	3.6	2.1	40	31.97	5	29.21	1.35	0.51	11.34
			0.14						46.85	1.35	0.60	
12	51	35.6	0.12	3.2	2.0	45	36.67	5	25.06	1.44	0.46	14.73
			0.14						25.92	1.44	0.48	
13	55	37	0.16	4.2	2.4	50	37.96	5	38.99	1.62	0.54	16.62
			0.14						24.34	1.62	0.42	
14	60	41	0.16	4.5	2.5	55	42	5	36.61	1.80	0.48	20.03
			0.18						52.51	1.80	0.52	



不锈钢及高弹性合金等特殊材料波纹管产品

Special material such as stainless steel and high elastic alloy bellows



1Cr18Ni9Ti(使用温度: $-194^{\circ}\text{C} \sim +400^{\circ}\text{C}$) 具有很高的弯曲疲劳强度和耐蚀性, 焊接性能良好。可用作腐蚀性介质中的测量、密封、连接和补偿元件。

1Cr18Ni9Ti(usage temperature: $-194^{\circ}\text{C} \sim +400^{\circ}\text{C}$) has high bending fatigue strength and corrosion resistance, and good welding performance. It can be used as measuring, sealing, connecting, and compensating components in corrosive media.



不锈钢波纹管产品 | Stainless steel bellows



不锈钢波纹管基本参数表

Basic parameters of stainless steel bellows table

序号 Number	外径 Outer Diameter D mm	内径 Inner Diameter d mm	壁厚 Wall Thickness S mm	波距 Wave Pitch t mm	波厚 (thickness of convolution) a mm	两端配合部分 Mating section at both ends			单波轴向刚度 Single Wave Stiffness N/mm	单波最大允许轴向位移 Maximum Elastic Displacement of Single Wave mm	最大耐压力 (内压) Maximum Pressure Resistance (Internal Pressure) MPa	有效面积 Effective Area F cm ²	
						内配合直径 Inner Fitting Diameter D _i mm	外配合直径 Outer Fitting Diameter d _i mm	配合端长度 Fitting End Length l mm					
1	10	6.2	0.10 0.12	1.0 1.1	0.65 0.60	8 8.8	6.7	4 2	230.75 414.90	0.09 0.16	3.49 3.65	0.52	
2	12	7.5	0.12	1.2 1.4	0.75 1.0	10	8	4	291.02 275.30	0.19 0.21	3.25 4.65	0.12	
3	14	9	0.10	1.8	1.0	12		3	139.84	0.24	2.91	0.10	
4	15	9.5	0.12	1.8	1.1	13	10.03	4	194.54	0.21	3.10	0.12	
5	18	11.5	0.12	2.2	1.4	14	12.03	4	139.11	0.22	3.00	0.12	
6	20	12	0.12	2.1	1.2		12.5	2.5	76.14	0.34	2.00	0.12	
		12.5	0.10 0.12	2.1	1.2	18	13.03	4	54.92 96.78	0.42 0.34	1.70 2.00	0.12	
7	22	14	0.10 0.12	2.2	1.3	19.5	14.53	4	50.33 88.58	0.41 0.34	1.54 1.80	0.10	
8	22.5	15	0.15	1.8	1.0	20		3	232.72	0.29	1.60	0.15	
9	25	16.5	0.10 0.12	2.3	1.35	22	17.03	4	49.13 86.34	0.51 0.42	1.24 1.46	0.12	
10	28	18	0.10 0.12	2.6	1.5	25	18.57	4	32.53 57.03	0.61 0.53	1.10 1.30	0.12	
11	31	19.5	0.12	2.8	1.6	28.5	20.07	4	40.19	0.65	1.15	0.12	
12	32	21.5	0.10 0.12	3.0	1.7	28	22.07	4	33.41 58.51	0.78 0.65	0.95 1.15	0.12	
		22	0.12						4	69.53	0.65	1.15	0.12
									4	112.61	0.55	1.2	0.15
13	35	24	0.15	2.8	1.5	31		4	40.60	0.86	0.85	0.14	
14	38	25.5	0.12 0.14	3.2	1.8	34	26.16	4	65.21	0.73	0.98	0.10	
15	39	27.5	0.10	2.8	1.8	31		4	32.29	0.95	0.71	0.14	
16	40	27.5	0.12 0.14	3.4	2.0	36	28.1	5	43.76 70.27	0.91 0.76	0.86 1.00	0.12	
		28	0.12						50.47	0.91	1.00	0.14	
17	45	31	0.12 0.14	3.6	2.1	40	31.97	5	34.85 55.91	1.06 0.91	0.71 0.82	0.18	
18	46	32	0.16 0.18	3.6	2.1	*	*	*	86.98 125.10	0.79 0.71	0.71 0.82	0.16	
19	48	35.6	0.16	3.2	2.2	48		3	140.40	0.87	0.89	0.125	
20	50	34.3	0.125	4.0	2.8		35	6	30.8	1.85	0.85	0.12	
21	51	35.6	0.12 0.14	3.6	2.2	45	36.67	5	29.90 47.91	1.18 1.01	0.62 0.70	0.14	
22	55	37	0.14 0.16	4.2	2.4	50	37.96	5	30.93 46.53	1.25 1.11	0.64 0.74	0.16	
23	60	41	0.14 0.16 0.18	4.5	2.5	55	42	5	29.04 43.68 62.65	1.59 1.37 1.22	0.58 0.64 0.72	0.14 0.16 0.18	
24	65	47	0.16	4.3	3.3		48	6	59.00	1.99	0.52	0.16	
25	79	55	0.16 0.18	5.4	3.0	70	56.02	6	28.71 41.10	2.16 2.16	0.44 0.48	0.18	
26	100	75	0.16 0.20	6.0	3.6		76		34.52 68.16	2.16 1.14	0.32 0.50	0.20	

排气波纹管产品

Exhaust bellows



排气波纹管基本参数表 Exhaust bellows basic parameter table

带内网波纹管由外层网套、双层波体加上内层网套组合而成，内外两层网套所以产品结构强度较高，在降低噪声及减震效果明显。规格:口径:1-3/4"长度:4"-12"

The corrugated pipe with inner mesh is composed of an outer mesh sleeve, a double-layer wave body, and an inner mesh sleeve. The product has high structural strength due to the combination of the inner and outer mesh sleeves, and has significant noise reduction and shock absorption effects. Specification: Caliber: 1-3/4 "Length: 4" - 12 "

产品编码 Product code	内径 Inner diameter	总长度 Total length
J13404B	1-3/4" (45mm)	4" (102mm)
J13406B	1-3/4" (45mm)	6" (152mm)
J13407B	1-3/4" (45mm)	7" (178mm)
J13408B	1-3/4" (45mm)	8" (203mm)
J13409B	1-3/4" (45mm)	9" (230mm)
J13410B	1-3/4" (45mm)	10" (254mm)
J13411B	1-3/4" (45mm)	11" (280mm)
J13412B	1-3/4" (45mm)	12" (305mm)
J20004B	2" (50.8mm)	4" (102mm)
J20006B	2" (50.8mm)	6" (152mm)
J20008B	2" (50.8mm)	8" (203mm)
J20009B	2" (50.8mm)	9" (230mm)
J20010B	2" (50.8mm)	10" (254mm)
J20011B	2" (50.8mm)	11" (280mm)
J20012B	2" (50.8mm)	12" (305mm)
J21404B	2-1/4" (57.2mm)	4" (102mm)
J21406B	2-1/4" (57.2mm)	6" (152mm)
J21408B	2-1/4" (57.2mm)	8" (203mm)
J21409B	2-1/4" (57.2mm)	9" (230mm)
J21410B	2-1/4" (57.2mm)	10" (254mm)
J21411B	2-1/4" (57.2mm)	11" (280mm)
J21412B	2-1/4" (57.2mm)	12" (305mm)
J21204B	2-1/2" (63.5mm)	4" (102mm)
.....		
以下口径规格均可以定做生产 (The following caliber specifications can be customized production)		
ID 32、36、38、40、46、48、52/115、125mm		