



旗鱼建筑挂装系统 产品手册 2016-2017



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中国旋进式背栓第一品牌!

BRIEF INTRODUCTION 企业简介

旗鱼，中国旋进式背栓创导者

Chinese Screw-in Undercut Anchor Creator and Leader

台州市旗鱼幕墙科技有限公司是一家专业从事建筑物立面“墙体挂装系统”研发、制造和销售的高新技术企业。

引进德国最前沿技术，并在此基础上不断突破创新。2006年在国内首家提出背栓的分类，创立了“旋进式背栓挂装体系”的核心价值，成为中国旋进式背栓的创导者。系统先后通过了国家级抗震试验和行业专家认证，并参与了多本国家工程技术规范及图集的编制工作。

旗鱼三大系列产品主要围绕着石材（人造板材）墙体挂装系统的标准化，引领建筑产品逐步走向生产工厂化、装配规模化的方向。产品广泛应用于城市公共建筑、高档商业房产、轨道交通等领域。客户遍布亚洲、欧洲、美洲、中东等地区。

ARROWFISH is a high-tech company specialized in the R&D, manufacturing, marketing of building facade fixing system.

We develop new technology based on the most advanced German technology we introduced. In 2006, we initially proposed the concept of "Undercut anchor nature types" and defined "Screw-in undercut anchor fixing system", becoming the creator and leader of screw-in undercut anchor products. The system has been certificated by National Anti-seismic Test and industry experts. We also involved in compiling several Nation Engineering Technical Regulations and Illustrated Books.

The three series of ARROWFISH products are focusing on the standardization of stone(artificial panel) facade fixing, leading building products to factory manufacturing, and scale assembling. Our products are widely used in city public constructions, high-end commercial real estates, rail transit etc. Sold to clients from Asia, Europe, America, Middle East regions.

品牌源自坚持 创新改变未来

Persistence creates the brand, innovation changes the future.

建筑挂装系统典型图例



先(后)置预埋锚固系列
Embedded anchoring system

旋进式背栓挂装组合系列
Undercut anchor hanging system

密封\粘接\养护辅料系列
Sealant/adhesive/stone care products

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Embedded anchoring system

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Sealant/adhesive/stone care products

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旗鱼®
挂装系统

先(后)置预埋锚固系列 Embedded anchoring system



先后置预埋锚固系列

旗鱼® 挂装系统

旗鱼槽式预埋件 Embedded part

1、概述 Summary

产品包括:

热轧C型槽钢、热轧锚杆。表面热镀锌处理，镀锌层厚度不小于55 μm。

Including:

Hot rolling C-channel hot rolling bolt. Hot-dip galvanizing processing on surface, the zinc coating thickness not less than 55μm.



2、应用范围 Application

槽式预埋件是一种便于安装且受力性能优越的金属构件，在混凝土浇筑前，预埋在结构内部，起固定、转接其他构件作用。例如：

- 1、幕墙支承结构；
- 2、管道支承系统；
- 3、动态承载的固定装置；
- 4、隧道内高架电缆系统及铁路沿线配套设备等固定。

Embed channel is a structural component easy to install and good to load, embedded inside of structure before concrete laying, to fix or connect other components.

For example:

- 1、Curtain wall supporting structure.
- 2、Pipe supporting system.
- 3、Fixture of dynamic load.
- 4、Fixture of tunnel and railway elevated cable system.

基材选择：开裂和非开裂混凝土≥C25

Base material: cracked and non-cracked concrete ≥C25.

3、规格型号 Specification

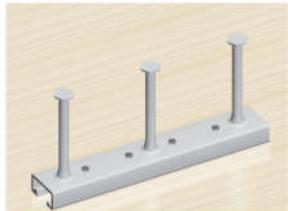
型号 Item no.	锚杆尺寸(mm) Size of anchor bolt	规格(mm) Specification	螺栓尺寸(mm) Size of T-shape screw	产品展示 Product display
AF-EC-M-300	Φ12x90	300x51x25	M16X60,M20X60	
AF-EC-M-350	Φ12x90	350x51x25	M16X60,M20X60	
AF-EC-M-300	Φ12x120	300x51x25	M16X60,M20X60	
AF-EC-M-350	Φ12x120	350x51x25	M16X60,M20X60	

 ARROWFISH

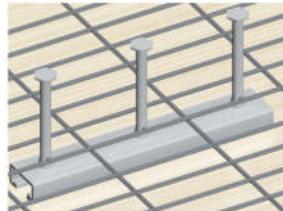
4、安装方法 Method of installation

槽式预埋件固定有以下三种形式

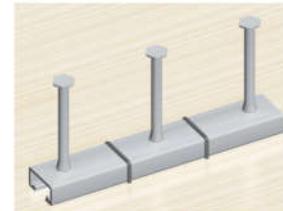
cThere are three forms to fix the channel embedded parts



a 通过钢钉固定在模板上
Fix it on the formwork with steel nail



b 焊接或绑扎在钢筋上
Fix it on the steel bars by welding or binding



c 通过C型钢线绑扎在模板上
Bind on the formwork with C shape steel wires

槽式预埋件安装步骤

Installation steps



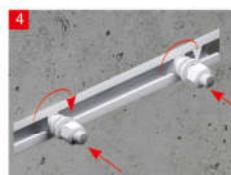
1 固定在模板上



2 浇筑混凝土



3 刮除填充泡沫



4 T型螺栓与钢槽连接

1. Fix the channel on the formwork

2. Pour the concrete

3. Remove the filled foam before screw in the bolt

4. Connect T-bolt to the channel

旗鱼化学锚栓

Chemical anchor

1、概述 Summary

产品包括：

化学药管、高强度螺杆。化学药剂的主要成分为乙烯基树脂或改性环氧树脂（不含苯乙烯），螺杆主要材质为镀锌钢（强度等级5.8级）或A4不锈钢。

Including:

Chemical drug pipe,a screw bolt.Medicament ingredient is vinylite or modified epoxy resin(styrene free).The material kf screw bolt is galvanized teal (strength class 5.8) or A4 stainless steel.



2、应用范围 Application

化学锚栓通过药剂粘接并锚固于混凝土等结构内，起固定、转接其他构件作用，具有对基材不产生应力、高承载力、边间距较小、适应大多数安装需求等特点。用于锚固幕墙支承结构、电缆桥架、机器设备、栏杆、扶梯等。

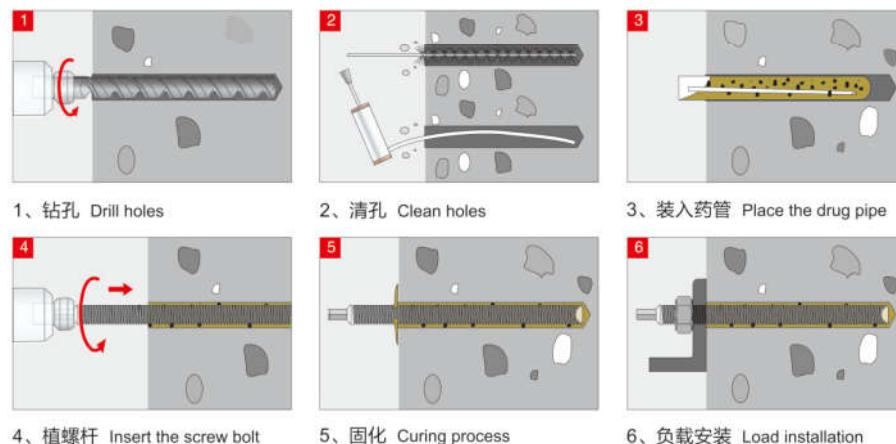
Chemical anchor is installed inside of structures like concrete by chemical adhesive,to fix or connect other components.Chemical anchor is stress free to the base,high bearing capacity,and small edge distance and spacing.could be widely applied to the curtain wall supporting structure,cable testing bridge equipment,handrail,staircase etc.

基材选择：开裂和非开裂混凝土 \geqslant C20或天然致密石材。

Base material:cracked and non-cracked concrete \geqslant C20 or natural dense stone.

3、规格型号 Specification

型号 Item no.	规格(mm) Specification	钻孔直径(mm) Dia. Of hole	钻孔深度(mm) Depth of hole	产品展示 Product display
AF-HM-M12	12x160	14	110	(Blue)
AF-HM-M16	16x190	18	125	(Yellow)
AF-HM-M20	20x260	25	170	(Gold)

4、安装方法 Method of installation**5、注意事项 Attention**

1、采用与锚栓直径相匹配的钻头进行钻孔，过大或过小的孔径都会影响锚栓拉拔强度。施工中务必保证钻孔垂直度以保证锚固后的抗拉剪强度。

2、以 $\geq 750\text{r}/\text{min}$ 的转速快速推进以保证化学药管充分绞碎混合均匀，推进速度 $\geq 10\text{mm}/\text{s}$ 。

3、混凝土等级 $\geq \text{C}20$ 。

4、不宜在积水的场所施工。

5、必须彻底清孔。

6、施工温度不低于 -10°C ，不高于 40°C 。



- It is necessary to use a drill bit matched with the anchor, and drill the correct size of hole, to ensure pull strength of anchor. In installation, it is necessary to keep the hole vertical, in order to guarantee the tensile and shearing strength.
- The anchor should be pushed rapidly at speed $\geq 750\text{r}/\text{min}$ to ensure fully crashing of chemical drug pipe and completely mixed, the pushing speed $\geq 10\text{mm}/\text{s}$.
- Concrete grade $\geq \text{C}20$.
- It is inappropriate to construct in seepage places.
- The hole should be completely cleaned.
- Construction temperature is not lower than -10°C and not higher than 40°C .

旗鱼后扩底锚栓
Expansion anchor**1、概述 Summary**

通过专用拓孔钻头，在基材内部打出一个“楔形孔”，后切底锚栓安装后与锚栓孔形成无应力锚固结构。

Use special drill bit to make a corn-shape hole inside the foundation, then the installed undercut anchor will create stress-free anchoring structure with this hole.

**产品包括：**

套管、锥形螺杆、平头螺母、垫片，材质为8.8级镀锌钢。

Including: Sleeve, cone-shaped screw, nut, washer. Material: 8.8 grade galvanized steel

2、应用范围 Application

后扩底锚栓具有对基材不产生应力、高承载力、边间距较小、施工快捷、适应大多数安装需求等特点。用于锚固幕墙支承结构、电缆桥架、机器设备、栏杆、扶梯等。

Expansion anchor is stress free to the base, high bearing capacity, small edge distance and spacing. Easy installation, could be widely applied to the curtain wall supporting structure, cable testing bridge, equipment, handrail, staircase etc.

基材选择：

开裂和非开裂混凝土C20/C25到C50/60、天然致密石材、实心砖。

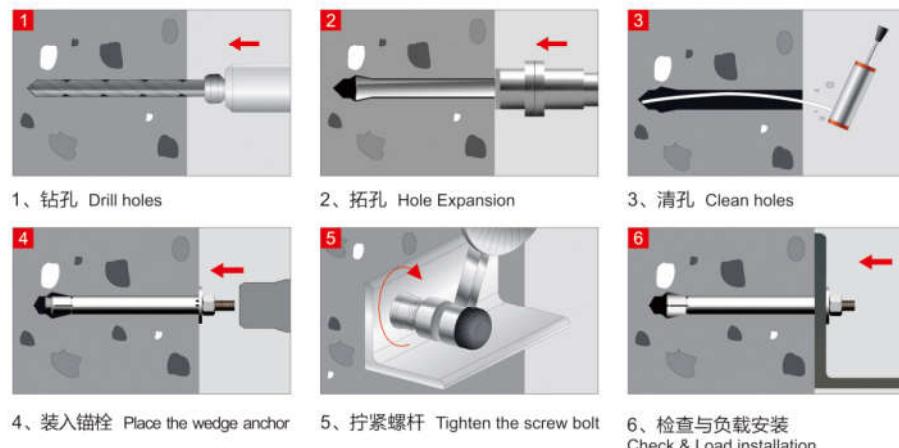
Base material: Cracked and non-cracked concrete C20/C25 to C50/60, natural dense stone, solid brick.

3、规格型号 Specification

型号 Item no.	规格(mm) Specification	有效锚固深度(mm) Effective anchoring depth	最大固定物厚度(mm) Max.fixture Thickness	产品展示 Product display
AF-HK-M10	M10x80	80	10	
AF-HK-M12	M12x100	100	15	
AF-HK-M12	M12x150	150	20	
AF-HK-M16	M16x200	200	25	



4、安装方法 Method of installation



旗鱼后切底钻头

Arrowfish Concrete Undercutting Drill Bit

1、概述 Summary

旗鱼后扩底钻头采用高强合金钢制作，通过组合叉式结构，刀片自动复位，有效控制扩孔精度。

Concrete undercutting drill bit is made of high-strength alloy steel, and due to its fork structure, the blades can reset automatically, which efficiently control the accuracy of hole expansion.



2、应用范围 Application

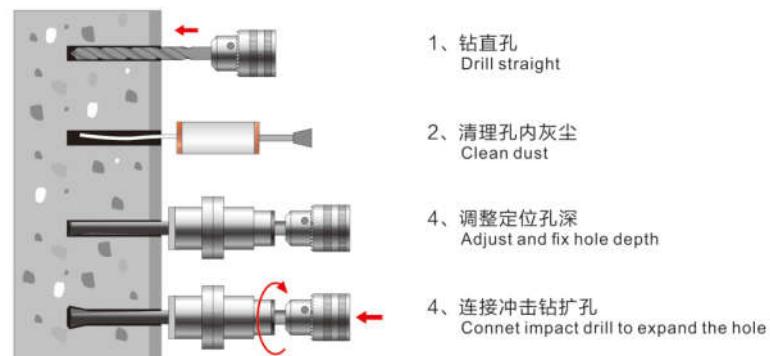
适用于加工旗鱼后扩底锚栓安装所需的楔形孔。

Applied to drill the corn-shape hole for installing ARROWFISH concrete undercut anchor.

3、规格型号 Specification

型号 Item no.	规格(mm) Specification	扩孔直径(mm) Expansion dia.	孔底深度(mm) Hole bottom depth.	产品展示 Product display
AF-KDZ-M10	M10x16-80	16	80	
AF-KDZ-M12	M12x18-100	18	120	
AF-KDZ-M16	M16x22-200	22	200	

4、安装方法 Method of installation



旗鱼后切底锚栓

Arrowfish Concrete Undercut Anchor

1、概述 Summary

后切底锚栓套管自带高强度刀头，通过扭力控制扩张，可以连续切削混凝土，有效地释放因扩张对混凝土孔壁产生的挤压应力，受外部允许荷载时不产生滑移。

The sleeve of concrete undercut anchor is equipped with high strength blade, which can cut concrete consistently through torque controlled expansion, and effectively release bearing stress to the wall, thus avoid slipping under external allowing loading.

产品包括：

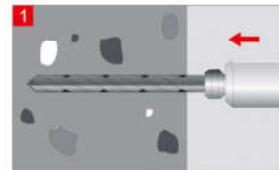
套管（含特殊刀头）、锥形螺杆、平头螺母、垫片。

Product contains: sleeve (with special blade), corn screw, flat nut, and washer.

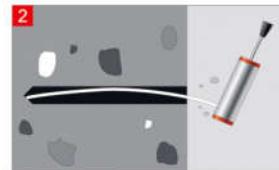
螺杆强度：8.8级。Screw strength: 8.8 class



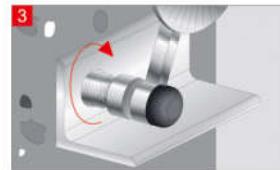
4、安装方法 Method of installation



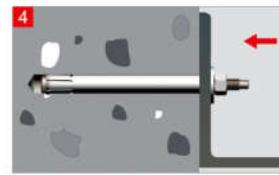
1、钻孔 Drill holes



2、清空 Clean holes



3、用扭矩扳手拧紧至设计扭矩值
Fastened to designed torque with torque wrench



4、负载安装 Load installation

旗鱼自切底锚栓

Arrowfish Concrete Self-cut Anchor

2、应用范围 Application

建筑幕墙、地铁、高速公路、建筑结构加固、设备基座、承重支架、电梯井道等。

Construction curtain wall, subway, highway, building structure reinforcement, equipment foundation, bearing support, elevator shaft etc.

基材选择：

开裂和非开裂混凝土C20/C25到C50/60、天然致密石材、实心砖。

Base material: Cracked and non-cracked concrete C20/C25 to C50/60, natural dense stone, solid brick.

3、规格型号 Specification

型号 Item no.	规格(mm) Specification	有效锚固深度(mm) Effective anchoring depth	最大固定物厚度(mm) Max.fixture Thickness	产品展示 Product display
AF-HQ-M10	M10x80	80	10	
AF-HQ-M12	M12x100	100	15	
AF-HQ-M12	M12x150	150	20	
AF-HQ-M16	M16x200	200	25	



1、概述 Summary

1、概述 Summary

自切底锚栓套管自带高强度锯齿刀头，通过专用工具控制套管扩张，可以连续切削混凝土，有效地释放因扩张对混凝土孔壁产生的挤压应力，受外部允许荷载时不产生滑移。

The sleeve of self-cut anchor is equipped with high strength blade, which can cut concrete consistently by the expansion of sleeve with special tool, and effectively release bearing stress to the wall, thus avoid slipping under external allowing loading.



产品包括：

套管（含锯齿刀头）、锥形螺杆、平头螺母、垫片。

Product contains: sleeve (with special blade), corn screw, flat nut, and washer

螺杆强度：8.8级。Screw strength: 8.8 class

2、应用范围 Application

建筑幕墙、大型钢结构、地铁、高速公路、建筑结构加固、设备基座、承重支架、电梯井道等。

Construction curtain wall, subway, highway, building structure reinforcement, equipment foundation, bearing support, elevator shaft etc.

基材选择：

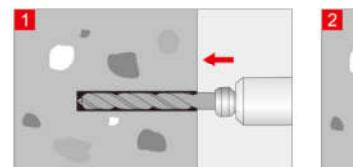
开裂和非开裂混凝土C20/C25到C50/60、天然致密石材、实心砖。

Base material: Cracked and non-cracked concrete C20/C25 to C50/60, natural dense stone, solid brick.

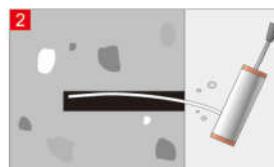
3、规格型号 Specification

型号 Item no.	规格(mm) Specification	有效锚固深度(mm) Effective anchoring depth	最大固定物厚度(mm) Max.fixture Thickness	产品展示 Product display
AF-ZQ-M10	M10x80	80	10	
AF-ZQ-M12	M12x100	100	15	
AF-ZQ-M12	M12x150	150	20	
AF-ZQ-M16	M16x200	200	25	

4、安装方法 Method of installation



1、钻孔 Drill holes



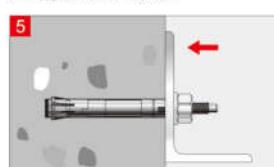
2、清空 Clean holes



3、装入锚栓 Place the wedge anchor



4、使用专用工具安装
Applied with special tool



5、负载安装 Load installation

旗鱼车修壁虎

Wedge anchor

1、概述 Summary

产品包括：螺母、垫片、精密成型的锥形螺杆及弹性钢制膨胀套组成，材质为304(A2)或316(A4)不锈钢。

Including: nut,washer,screw bolt and elastic steel expansion sleeve
Material: 304(A2) and 316(A4) stainless steel.



2、应用范围 Application

车修壁虎具有高承载力、边间距较小、施工快捷、适应大多数安装需求等特点。用于锚固幕墙支承结构、电缆桥架、机器设备、栏杆、扶梯等。

Wedge anchor is stress free to the base,high bearing capacity,small edge distance and spacing,easy installation,could be widely applied to the curtain wall supporting structure,cable testing bridge structure, equipment,handrail,staircase etc.

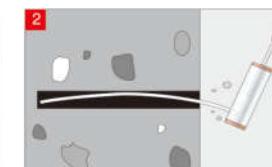
3、规格型号 Specification

型号 Item no.	规格(mm) Specification	钻孔直径(mm) Dia.Of hole	钻孔深度(mm) Depth of hole	产品展示 Product display
BH-M8	8.5	65		
BH-M10	10.5	70		
AF-BH	BH-M12	12.5	95	
	BH-16B	12.5	115	
	H-20	12.5	130	

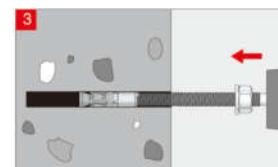
4、安装方法 Method of installation



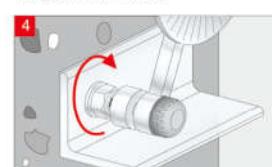
1、钻孔 Drill holes



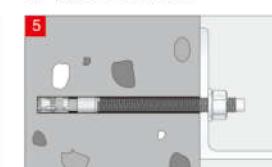
2、清孔 Clean holes



3、装入锚栓 Place the wedge anchor



4、拧紧螺杆 Tighten the screw bolt

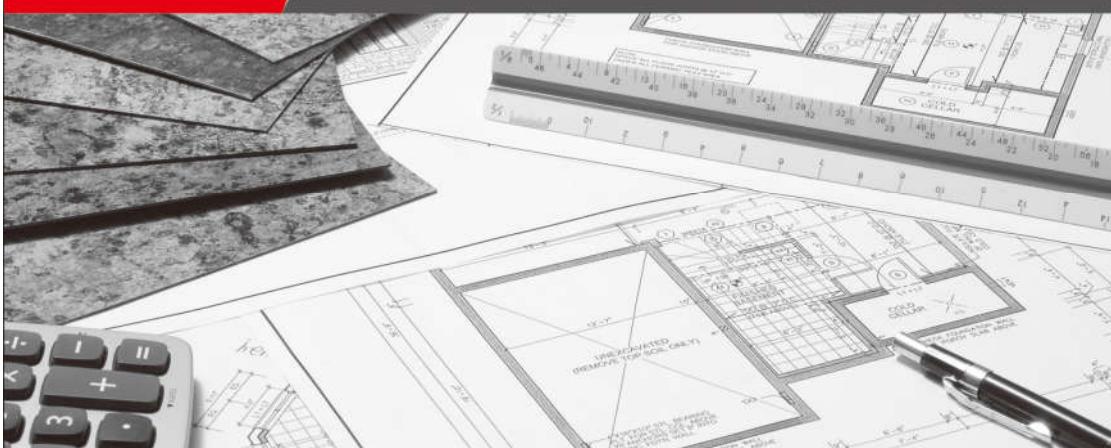


5、负载安装 Load installation




旗鱼®
挂装系统

旋进式背栓挂装组合系列 Undercut anchoring hanging system



旗鱼旋进式背栓 Undercut anchor

1、概述 Summary

旗鱼旋进式背栓由上边缘呈六角形尾翼内带螺纹的膨胀套管、内六角螺杆及法兰止动螺母组成——标准型背栓(1)。作为选择，亦可采用六角螺钉代替螺杆及法兰止动螺母——标准型背栓(2)，无须任何弹平垫片，将膨胀套管放进“楔形孔”，通过旋进螺杆形成可控制的无应力锚固结构。

Including: anchor sleeve, screw and flange nut--standard undercut anchor(1). As an alternative, also can be consist of hex head screw and anchor sleeve--standard undercut anchor(2), which is free from any elastic flat gasket, place the anchor sleeve into the wedge-shape hole, screw in the bolt, to ensure a controllable stress-free attachment in all commonly used panel materials.



2、应用范围 Application

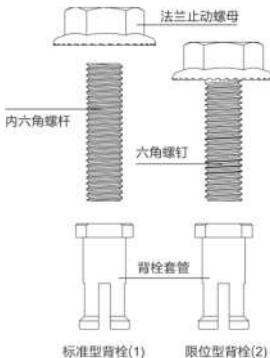
旗鱼旋进式背栓适用于10mm到40mm之间不同厚度的石材（人造板材）的背部锚固，是面材与铝合金转接件之间的锚固体。

Undercut anchor fits for nature stone or artificial panel with thickness 10-40mm.

3、产品特点 Product characteristic

旋进式、无应力、可拆卸、强度高、施工简便。

Screw-in, stress-free, replaceable, high strength, easy installation.



4、材质及适用范围 Material and application

旗鱼旋进式背栓材质主要分为：304(A2)、316(A4)。

Material: 304(A2)、316(A4)

不锈钢主要化学成份：The main chemical composition is as follows:

304	18%Cr	8.0%Ni	0.08%C	
316	17%Cr	10.0%Ni	0.08%C	2%Mo

■ 304不锈钢背栓

- 1、耐腐蚀性和耐热性良好；
- 2、机械性能优良；
- 3、在大气中耐腐蚀，若是工业性气氛或重污染地区，则需要及时清洁以避免腐蚀。

■ Undercut anchor(stainless steel 304)

1. Good heat resistance and anti-corrosion.
2. Good mechanical performance.
3. It resists corrosion in atmosphere, and has necessity to be cleaned in time for avoiding corrosion if used in industrial atmosphere or heavy-pollution occasions.

■ 316不锈钢背栓

- 1、防腐蚀，适用于各种环境
- 2、添加了2-3%Mo，提高了抵抗还原性盐耐蚀性能，特别是抵抗点蚀性能优秀；
- 3、防海洋性和工业大气侵蚀，可应用在工业重污染及沿海地区。

■ Undercut anchor(stainless steel 316)

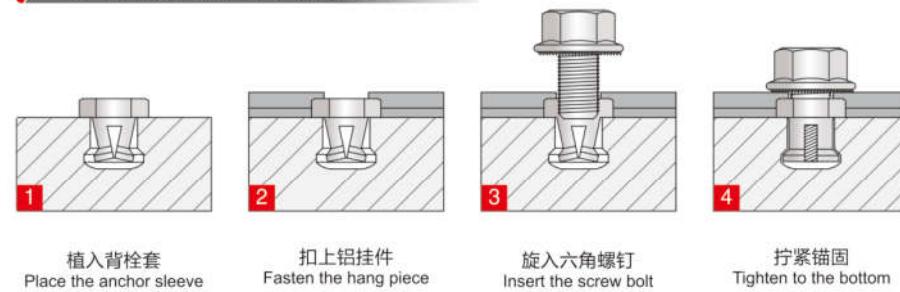
1. It resists corrosion and adapt to various environments.
2. By adding 2-3%Mo, improves the corrosion resistance caused by reducing salt, especially the spot corrosion resistance.
3. Because of its marine and industrial corrosion resistance, it can be used at industrial heavy pollution areas or coastal areas.

■ 不同材质背栓适用范围 Applications of different undercut anchors

使用环境 Operating environment	304不锈钢 Stainless steel 304	316不锈钢 Stainless steel 316
室内及地下室	相当好	相当好
室外基本未受大气污染的市郊地区	很好	很好
室外中等程度污染的市区、轻工业区	好	很好
室外大气污染严重的重工业区	不好	好
室外高氯化物含量的沿海地区	不建议使用	可以使用
Indoor and basement	Best	Best
Outdoor or suburb hardly polluted	Better	Better
Outdoor or downtown and light industria area with moderate pollution	Good	Better
Heavy industrial area	Not good	Good
Coastal areas with high chloride	Not recommended	Can be used

5、规格型号 Specification

品名 Item	型号 Item no.	规格(mm) Specification	锚固深度(mm) Depth of anchoring	螺杆直径(mm) Diameter of screw	产品展示 Product display
旗鱼旋进式背栓 Undercut anchor	AF-M6x7	M6x7-22	M6	7	
	AF-M6x9	M6x9-25	M6	9	
	AF-M6x12	M6x12-27	M6	12	
	AF-M6x15	M6x15-30	M6	15	
	AF-M8x15	M8x15-30	M8	15	
	AF-M8x20	M8x15-35	M8	20	
旗鱼增强型背栓 Strengthened Undercut anchor	AF-KM6x9	Km6x9-25	M6	9	
	AF-KM6x12	Km6x12-27	M6	12	
	AF-KM6x15	Km6x15-30	M6	15	
	AF-KM8x15	Km8x15-30	M8	15	
旗鱼旋进式背栓 (两件套) Undercut anchor (twinset)	AF-M6x7	M6x7-12	M6	7	
	AF-M6x9	M6x9-14	M6	9	
	AF-M6x12	M6x12-17	M6	12	
	AF-M6x15	M6x15-20	M6	15	
	AF-M8x15	M8x15-20	M8	15	
	AF-M8x20	M8x15-25	M8	15	
	AF-KM6x15	Km6x15-20	M6	15	
	AF-KM8x15	Km8x15-20	M8	15	
	AF-KM8x20	Km8x20-25	M8	20	

6、安装方法 Method of installation

旗鱼铝合金挂件

Aluminum hang piece

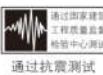
1、概述 Summary

产品包括：挂座、挂件、调节螺丝、垫片。

材质为6063-T5 (T6)铝合金。

Including: hanging seat, hang piece, adjusting screw,nylon backing strap.

Material: aluminum alloy 6063-T5(T6)



2、应用范围 Application

铝合金挂件是为旋进式背栓特别配套定制，连接背栓和角码之间的铝制转接件。细部经特殊工艺设计处理，与背栓完全吻合，消除背栓与挂件连接时可能发生扭转、打滑、间隙过大等质量隐患。粘合在挂件背面的弹性垫片避免掉落、歪斜等现象发生，保证挂装系统具有高抗风压、易装配、耐腐蚀及装饰等性能。

It is especially designed to match with the undercut anchor, completely fitted to the undercut anchor by special design and treatment, thereby eliminating hidden troubles of torsion, slip and large gap in the connection between the undercut anchor and hang piece.The nylon backing strap at the back of the hang piece never drops and deflects.

3、产品特点 Product characteristic

强度高、易装配、耐腐蚀、可订制。

High strength,easy installation,corrosion-resistant,customizable.

型号 Item no.	规格(mm) Specification	调节螺丝规格(mm) Specification of adjusting screw	产品展示 Product display
AF-C1C2	C1-50	M6x16	
	C2-50		
AF-F1F2	F1-50	M6x16	
	F2-90		
AF-G1G2	G1-50	M6x16	
	G2-80		
AF-G1T2	G1-50	M6x16	
	T2-80		
AF-L1L2	L1-50	M5x16	
	L2-80		

5、安装实例 Installation illustration



安装实例



4、规格型号 Specification

型号 Item no.	规格(mm) Specification	调节螺丝规格(mm) Specification of adjusting screw	产品展示 Product display
AF-H1	H1-50	M5x25	
AF-N	N-50	M6x16	
AF-Q	Q-50	M5x16	
AF-R	R-50	M6x16	

旗鱼角码

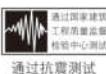
Bracket



1、概述 Summary

产品：采用热镀锌Q235普碳结构钢、铝合金或A4不锈钢等材料生产。

Material: hot dip galvanized steel Q235, aluminum alloy, stainless steel A4.



2、应用范围 Application

旗鱼角码主要用于配合不同挂件组成的挂装系统，是铝合金挂件和龙骨之间的连接件。

Bracket is mainly used with different hang pieces, which is the connection between hang piece and supporting frame.

3、产品特点 Product characteristic

强度高、易装配、可订制。

High strength, easy installation, customizable.

4、规格型号 Specification

品名 Item	型号 Item no.	规格(mm) Specification	产品展示 Product display
旗鱼角码 Bracket	AF-LP	LP-50x50	
		LP-50x50-S	
		LP-50x80	
		LP-50x80-S	

5、安装方法 Method of installation



安装实例

旗鱼铝合金转角件

Aluminum soffit angle



1、概述 Summary

产品包括：转角件、铝合金垫片。材质为：T5(T6)铝合金。

Including: soffit angle and aluminum alloy washer

Material: aluminum alloy T5(T6).



2、应用范围 Application

主要用于相邻板材阳角间的相互连接，根据板材厚度、类型确定背栓型号。

Soffit angle provides an attachment for the installation of soffit panel to another.

3、产品特点 Product characteristic

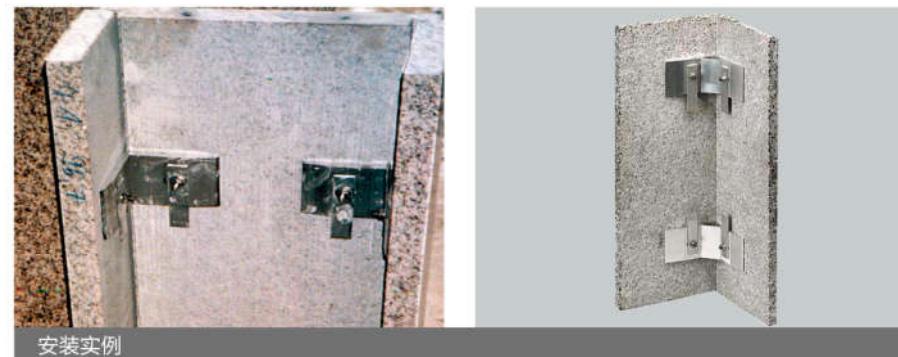
强度高、易装配。

High strength, easy installation.

4、规格型号 Specification

品名 Item	型号 Item no.	规格(mm) Specification	角度 angle	产品展示 Product display
旗鱼铝合金 转角件 Aluminum soffit angle	AF-ZJ	AF-80	80°	
			90°	
			100°	

5、安装方法 Method of installation



安装实例

旗鱼不锈钢插杆

Stainless steel plug-in fork anchor

1、概述 Summary

产品：采用A2或A4不锈钢材质。需配合旋进式背栓、植筋胶使用。

Material: A2 Or A4 stainless steel. Need to be used together with undercut anchor and injection mortar.



2、应用范围 Application

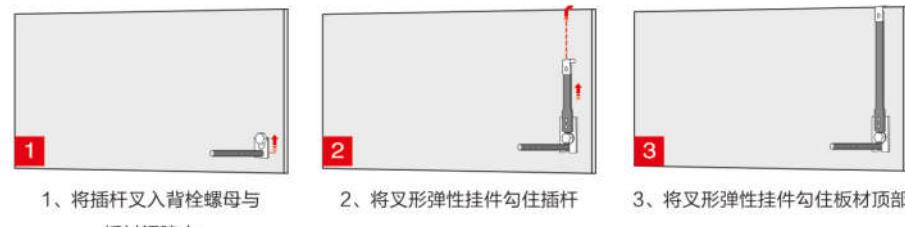
插杆法是内外墙石材（人造板材）挂装的一种工艺，通过专用拓孔设备在面板背面钻“楔形”孔，植入背栓，装好背栓的板材连接L型插杆，通过植筋胶固定在基层墙体上，形成装饰面构造；其主要受力连接方式为背栓、面板及墙体基层三者连接；背栓与面板连接、L型插杆与背栓连接、L型插杆与墙体基层连接，所有连接环节均为无应力锚固连接。

The fork bolt is fastened to the base strongly by the injection mortar, and the fork anchor will be fastened to the natural stone by undercut anchor.

3、规格型号 Specification

品名 Item	型号 Item no.	规格(mm) Specification	产品展示 Product display
旗鱼不锈钢插杆 Stainless steel plug-in fork anchor	AF-CG8	M8x120	
	AF-CG10	M10x150	
		M10x220	

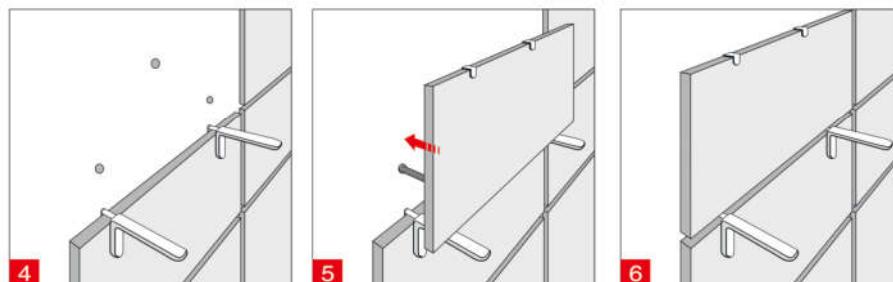
4、安装方法 Method of installation



1、将插杆叉入背栓螺母与
板材间隙中

2、将叉形弹性挂件勾住插杆

3、将叉形弹性挂件勾住板材顶部



4、插入临时三角形托架，钻孔并
清理孔，灌入植筋胶

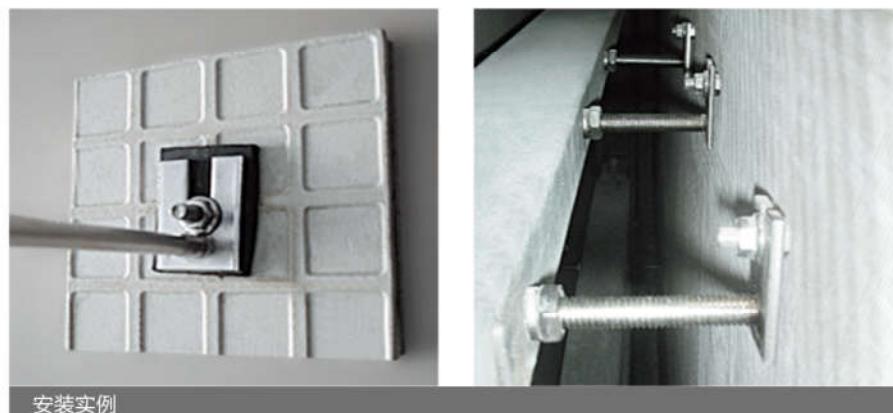
5、将板材推进孔内，调整
板材并固定，使胶体固化

6、移除叉形弹性挂件，将
三角形托架旋转90° 并移除



板材可以移除用于安装
保温层或锚固检测

5、安装实例 Installation illustration



安装实例

旗鱼不锈钢挂条

Stainless steel clip strip

1、概述 Summary

产品：采用A2或A4不锈钢材质。需配合旋进式背栓、膨胀螺栓使用。

Material: A2 Or A4 stainless steel. Need to be used together with undercut anchor and expansion bolt.



2、应用范围 Application

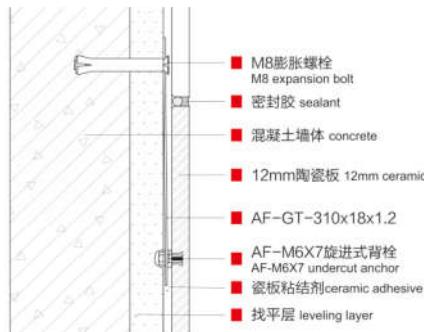
旗鱼不锈钢挂条是连接背栓和基材的结构性连接件。挂贴法避免了湿贴板材气鼓脱落的风险，适用于人造板材非抗震设防的室内外饰面装修工程。

Arrowfish stainless steel clip strip is a joint part to connect undercut anchor and base. The hanging and pasting method avoids the risk of the wet-pasted facade of panel desquamation. It fits for indoor and outdoor decoration by artificial panel in non-seismic area.

3、规格型号 Specification

品名 Item	型号 Item no.	规格(mm) Specification	产品展示 Product display
旗鱼不锈钢挂条 Clip strip	AF-GT	250x18x1.2 310x18x1.2	
膨胀螺丝 Expansion bolt	AF-PZ	M6x100	

4、构造节点 Clip strip illustration



5、安装实例 Installation illustration



AF-1便携式拓孔机

The Arrowfish manual drill machine

1、应用范围 Application

便携式拓孔机可在小规格或特殊尺寸板材上任意点工作，在各种石材（人造板材）加工与旗鱼背栓完全契合的“楔形孔”。设备兼容性能好，适用于工程扫尾阶段或是小规模工程加工。

The Arrowfish manual drill machine can make undercut holes which match the undercut anchor on any natural stones and artificial panels. It is used for mobile drilling and undercutting. Once placed on the panel at any point, this handy machine can be rigidly connected to the panel via the vacuum foot or clamping foot. Preside positioning can be carried out via stop rails. With its good compatibility, it can be used for small projects or the rounding-off work.



2、产品特点 Product characteristic

- 结构设计合理、体积小重量轻、操作简便；
- 采用单相220/110V电源、节能环保；
- 电机采用双绝缘设计，使用安全、性能稳定；
- 具有固定和移动两种操作模式，特别适合中小批量背栓拓孔及扫尾工程的需要，机动性强。
- Reasonable structure, small size, light weight, easy to operate.
- Available in both 110V and 220V, energy conservation and environment protection.
- Double insulation, safe, stable performance.
- With fixed and moving the two modes of operation, it can be used for small projects or the rounding-off work.

3、规格型号 Specification

型号 Item no.	电源/V Voltage	功率/kw Power	转速/rpm Speed	孔深/mm Drill depth	孔径/mm Hole dia.	纵向最大尺寸/mm Max. vertical length
AF-1	220/110	1.0	3800-6500	5-20	M6, M8	无限制
型号 Item no.	垂直最大行程/mm Max. vertical deoth		控制方式 Control	气压/Mpa Air pressure		外形尺寸/mm Machine size
AF-1	65		手动	0.5-0.8		520X230X280

AF-2S台式手动拓孔机

The Arrowfish manual drilling machine desk

1、应用范围 Application

旗鱼台式手动拓孔机可在各种石材（人造板材）上加工出与旗鱼背栓完全契合的“楔形孔”。设备兼容性能好，特别适用于中大型项目的现场加工。
The Arrowfish manual drilling machine desk can make undercut holes which match the undercut anchor on any natural stones and artificial panels. With its good compatibility, it can be used in large or medium scale projects.



2、产品特点 Product characteristic

- 结构设计合理、体积小重量轻、操作简便；
- 采用单相220/110V电源、节能环保；
- 维护方便，性能稳定；
- 应用变频调速技术，电机转速更高，噪音小；
- 适用多种规格的背栓拓孔，性价比高，适应工地批量加工。
- Reasonable structure, small size, light weight. easy to operate.
- Available in both 110V and 220V ,energy conservation and environment protection.
- Easy maintenance, stable performance.
- Apply frequency control technology,higher speed,less noises.
- Compatible with various undercut anchor according to the facade requirements.High cost performance,it is suited for batch processing on site.

3、规格型号 Specification

型号 Item no.	电源/V Voltage	功率/kw Power	转速/rpm Speed	孔深/mm Drill depth	孔径/mm Hole dia.	纵向最大尺寸/mm Max. vertical length
AF-2S	220/110	1.0	7200	5-20	M6、M8	300
型号 Item no.	垂直最大行程/mm Max. vertical deoth		控制方式 Control	气压/Mpa Air pressure		外形尺寸/mm Machine size
AF-2S	100		台式手动	0.5-0.8		1600X840X1410

AF-2Q台式气动拓孔机

The Arrowfish pneumatic drilling desk

1、应用范围 Application

旗鱼台式气动拓孔机可在各种石材（人造板材）上加工出与旗鱼背栓完全契合的“楔形孔”。气动拓孔功能有效降低操作人员的工作强度，适用于大中型项目的现场加工。

The Arrowfish pneumatic drilling desk can make the undercut hole which matches to the undercut anchor on any natural stones and artificial panels. Pneumatic drilling function effectively reduces the work intensity of operators. With its good compatibility, it suits for medium/large scale projects.



2、产品特点 Product characteristic

- 结构设计合理、操作简便；
- 采用单相220/110V电源，节能环保；
- 维护方便，性能稳定；
- 应用变频调速技术，电机转速更离，噪音小；
- 适用多种规格的背栓拓孔，性价比高，适应工地批量加工。
- Reasonable structure, easy to operate.
- Available in both 110V and 220V ,energy conservation and environment protection.
- Easy maintenance, stable performance.
- Apply frequency control technology,higher speed,less noises.
- Compatible with various undercut anchor according to the facade requirements. High cost performance,it is suited for batch processing on site.

3、规格型号 Specification

型号 Item no.	电源/V Voltage	功率/kw Power	转速/rpm Speed	孔深/mm Drill depth	孔径/mm Hole dia.	纵向最大尺寸/mm Max. vertical length
AF-2Q	220/110	1.8	7200	5-20	M6、M8	300
型号 Item no.	垂直最大行程/mm Max. vertical deoth		控制方式 Control	气压/Mpa Air pressure		外形尺寸/mm Machine size
AF-2Q	100		台式气动	0.5-0.8		1600X840X1410

AF-3台式全自动拓孔机

The Arrowfish automatic drilling table

1、应用范围 Application

旗鱼台式全自动拓孔机可在各种石材（人造板材）上加工出与旗鱼背栓完全契合的“楔形孔”。双机头、数控全自动，工作效率高，适用于大中型项目的现场加工，也是板材加工厂的最佳选择。

The Arrowfish automatic drilling table can make undercut holes which match the undercut anchor on any natural stones and artificial panels. double hosts, CNC automatic, high efficiency. With its good compatibility, it suits for the large or medium scale projects, efficient with double drill bits, it is probably the best choice for workshops.



2、产品特点 Product characteristic

- 结构设计合理，操作简便；
- 采用单相220/110V电源，节能环保；
- 维护方便，性能稳定；
- 应用变频调速技术，电机转速更高，噪音小；
- 采用PLC编程控制，单双主机切换工作，触摸屏操作，自动定位。
- Reasonable structure, easy to operate.
- Available in both 110V and 220V ,energy conservation and environment protection.
- Easy maintenance, stable performance.
- Apply frequency control technology,higher speed,less noises.
- Apply the PLC programming control technology,single and double host switching work,touch screen operation,automatic position setting.

3、规格型号 Specification

型号 Item no.	电源/V Voltage	功率/kw Power	转速/rpm Speed	孔深/mm Drill depth	孔径/mm Hole dia.	纵向最大尺寸/mm Max. vertical length
AF-3	220/110	1.8X2	7200	5-20	M6, M8	无限制
型号 Item no.	垂直最大行程/mm Max. vertical deoth	控制方式 Control	气压/Mpa Air pressure	外形尺寸/mm Machine size		
AF-3	100	全自动	0.5-0.8	1600X1000X1610		

旗鱼背栓拓孔钻头

Drill bit

1、概述 Summary

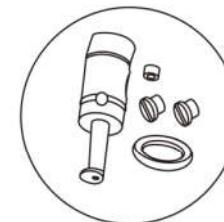
旗鱼背栓拓孔钻头由金刚石制成，通过纳米技术处理提升钻头质量稳定性。

Arrowfish drill bit is made by diamond processing with nanotechnology to enhance the quality.

1、应用范围 Application

配合拓孔加工设备使用，适用于天然石材（人造板材）的拓孔加工。

Suitable for natural stones(artificial panels).



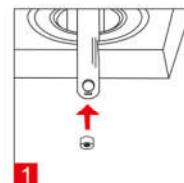
3、规格型号 Specification

品名 Item	型号 Item no.	规格(mm) Specification	产品展示 Product display
旗鱼背栓拓孔钻头 Drill bit	AF-M6Z	M6x5-15	
	AF-M6T	M6x12-21	
	AF-M8Z	M8x12-20	

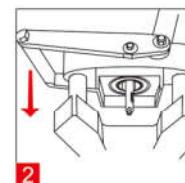
4、安装方法 Method of installation

在正常的拓孔工作中，因基材的密度、强度和钻孔深度不同，钻头寿命在150~300个子L之间，更换钻头是必须的。每台旗鱼拓孔机都会另配一个钻头及相关配件。

In the drilling process,due to the different density and strength of the material,the drill life of drill bit is about 150-300 holes.



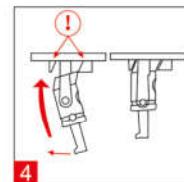
正确安装止水垫圈
Install the sealing gasket



压下钻机手柄
Press the handle



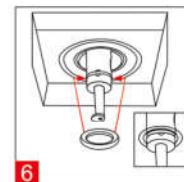
钻头顺时针安装
Install the drill bit



安装到位
Install in place



插上定位销
Plug the positioning pin



安装保护垫圈
Install the protective ring



ARROWFISH
旗鱼® 挂装系统

十五年品牌积淀 性能卓越

密封/粘接/养护辅料系列

Sealant/adhesive/stone care products

密封/粘接/养护辅料系列

旗鱼® 挂装系统

DLB-7900双组份硅酮结构密封胶

DLB-7900 two-component silicone sealant for structural use

1、概述 Summary

● 本品系双组份、中性固化硅酮密封胶产品，专门为建筑幕墙结构性粘接装配而设计；

● 固化后具有卓越的耐老化、耐紫外线、耐水性能；

● 耐高低温性能卓越，在-50℃，-180℃的范围内性能变化不大；

● 对大部分建材具有良好的粘结性，与其它中性硅酮胶有良好的相容性；

● 本品A组份为白色，B组份为黑色，A、B组份按体积比10:1或重量比12:1混合使用。

● The product is two- component neutral curing silicone sealant, special designed as the structural adhesive for construction curtain wall.

● Excellent weatherability,UV resistance,water proof.

● Good performance in high and low temperature,slight performance loss between -500C—1800C.

● Good adhesion to most building materials,good compatibility to other neutral silicone sealant.

● Part A white,part B black,mix part A with part B in proportion of 10:1 by volume and 12:1 by weight.



无虞性 ① 耐候老化 ② 耐低溫 ③ 适用多种建材 ④ 行业认证

2、应用范围 Application

● 各类玻璃幕墙、铝塑板幕墙、玻璃采光顶和金属结构工程的结构性粘结密封；

● 中空玻璃的二道粘结密封；

● 其它建筑与工业用粘结密封。

● Structural adhesion and seal for all kinds of glass curtain wall,ACP curtain wall,day light glass dome and metal structural engineering.

● Secondly seal for hollow glass.

● Adhesion and seal for other construction and industrial use.

3、规格型号 Specification

大包装：A组分240KG铁桶，B组分20KG铁桶

小包装：A9H分24KG塑料桶，B组分2KG塑料桶

Big size: part A 240 kgs metal drum,part B 20kgs metal drum.

Small size: part A 24kgs plastic drum,part B 2kgs plastic drum.

ARROWFISH

DLB-7800单组份硅酮结构密封胶

DLB-7800 One component silicone sealant for structural use

1、概述 Summary

- 本品系单组份、中性固化硅酮密封胶产品，专门为建筑幕墙结构性粘接装配而设计；
- 固化后具有卓越的耐老化、耐紫外线、耐水性能；
- 耐高低温性能卓越，在-50℃ ~ 180℃的范围内性能变化不大；
- 对大部分建材具有良好的粘结性，与其它中性硅酮胶有良好的相容性：

● 本品为黑色。

● The product is single - component neutral curing silicone sealant, special designed as the structural adhesive for construction curtain wall.



● Excellent weatherability,UV resistance,water proof.

● Good performance in high and low temperature,slight performance loss between -500C—1800C.

● Good adhesion to most building materials,good compatibility to other neutral silicone sealant.

Black in color.



2、应用范围 Application

- 玻璃幕墙、铝塑板幕墙、玻璃采光顶和金属结构工程的结构性粘结密封；
- 中空玻璃的二道粘结密封；
- 其它建筑与工业用粘结密封。
- Structural adhesion and seal for all kinds of glass curtain wall,ACP curtain wall,day light glass dome and metal structural engineering.
- Secondly seal for hollow glass.
- Adhesion and seal for other construction and industrial use.

3、规格型号 Specification

铝箔包装：590mU支每箱20支

塑料管装：300mU支每箱24支

Aluminum foil packing: 590ml/piece,20pcs/carton.

Plastic tube:30ml/piece,24pcs/carton.

DLB-7600玻璃、金属用耐候密封胶

DLB-7600 weather proof silicone sealant for glass and metal

1、概述 Summary

- 本品系单组份、中性固化硅酮密封胶产品，专门为建筑幕墙防水密封、耐候而设计；
- 固化后具有优异的耐老化、耐紫外线、耐水性能；
- 耐高低温性能优异，在-50℃ ~ 150℃的范围内性能变化不大；
- 对大部分建材具有良好的粘结性，与其它中性硅酮胶有良好的相容性：

● 本品有黑色、白色、灰色，亦可根据客户需要定制颜色。

● The product is single - component neutral curing silicone sealant, special designed as the water-proof and weather-proof of construction curtain wall.

● Excellent weatherability,UV resistance,water proof.

● Good performance in high and low temperature,slight performance loss between -500C—1500C.

● Good adhesion to most building materials,good compatibility to other neutral silicone sealant.

● Black,white,and grey available,and color customizable.



2、应用范围 Application

- 玻璃、金属、人造板等幕墙材料的耐候密封；
- 各种混凝土、塑料和金属等的接缝密封；
- 其它建筑与工程用途。
- Be used for the weather-proof sealing of glass, metal, artificial panel etc.
- Joints seal for kinds of concrete,plastic and metal etc.
- Other application for construction and engineering.

3、规格型号 Specification

铝箔包装：590ml/支每箱20支

塑料管装：300mU支每箱24支

Aluminum foil packing: 590ml/piece,20pcs/carton.

Plastic tube: 300ml/piece,24pcs/carton.

DLB-7200石材用耐候密封胶

DLB-7200 weather proof silicone sealant for stone

1、概述 Summary

- 本品系单组份、中性固化硅酮密封胶产品，专门为各类石材产品的嵌缝而设计。品系单组份、中性固化硅酮密封胶产品；
- 固化后具有优异的耐老化、耐紫外线、耐臭氧、耐水性能；
- 耐高低温性能突出，在-40℃~130℃的范围内性能变化不大；
- 与其它中性硅酮胶有良好的相容性；
- 本品有透明、黑色、白色、灰色，亦可根据客户需要定制颜色。
- The product is single-component neutral curing silicone sealant, specially designed for the caulking of all kinds of stone.
- Excellent weatherability, UV resistance, water proof.
- Good performance in high and low temperature, slight performance loss between -40℃~130℃.
- Good compatibility to other neutral silicone sealant.
- Transparent, black, white, grey, and color customizable.



2、应用范围 Application

- 石材（人造板材）幕墙工程填缝密封；
- 道路工程的混凝土伸缩缝密封；
- 卫生洁具安装、陶瓷工程的粘接及填缝密封。

Seal stone(artificial panel) caulking on curtain wall.

Road concrete project sealing.

Sealing of sanitary equipment,ceramic project.

干挂胶

Epoxy adhesive

1、概述 Summary

干挂胶主要成份为改性环氧树脂，由A. B组合使用，调配比例为1.1: 0.9。调配简单明确，属于柔性结合，且不渗油，不污染石材，抗压、抗拉、抗剪、抗老化及抗腐蚀等物理性能卓越，韧性和伸缩性特强，耐候性能好，应力小，粘接强度不受影响，在温差和震动条件的作用下，伸缩、沉降产生的位移较小，是一种动荷载处理最理想的粘合材料。

The main ingredient is modified epoxy resin, combined with A and B, with deployment ratio 1.1 :0.9, which is a flexible combination, no oil leakage, no pollution to stone. Has good performance in compression-resistance, Tensile, shear, anti-aging and anti-corrosion. Strong toughness and flexibility, weatherproof. Adhesive strength is not affected by temperature and vibration, less displacement, is the best adhesion material for dynamic load.



2、应用范围 Application

- 石材内外墙干挂粘接；
- 混凝土预制件粘接；
- 结构件外围加固粘接；
- 瓷砖和大理石的拼花；
- 瓷砖 / 砖块 / 瓷砖 / 混凝土粘接及勾缝；
- 混凝土裂缝修补。
- Adhesive for interior/exterior stone wall.
- Adhesive for precast-concrete forms.
- Adhesive for structural strengthening.
- Pattern making for marble or tiles.
- Jointing adhesive for tile/brick/tile/concrete.
- Fissure filling for the concrete.

3、规格型号 Specification

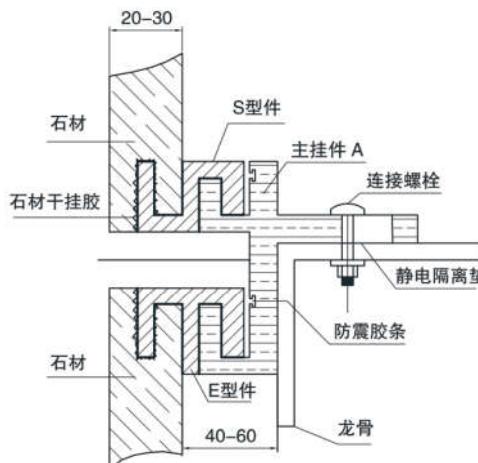
	1升 liter	5升 liter	10升 liter
听/箱Can/ctn	18	2	1

4、使用限制 Restriction

- 不宜在石材潮湿的场所中施工；
- 施工中光面必须打磨粗糙；
- 冬季低温时，最好将胶体加热至30~40℃施工。
- Do not apply in the humid places.
- Make the surface to be polished rough if possible.
- Pre-heat the adhesive to 30~40℃ if in cold winter.

5、施工方法 Construction method

- 表面处理：**粘接物表面应干爽不湿、无尘无油、牢固不松散。金属表面的油漆、混凝土表层的浮松物等有碍充分粘贴的物质必须清除干净。石板或金属表面过于光滑的，必须进行适当打磨处理。
- Surface treatment:** the surface of the material should be dry, clean and oil-free, solid. The metal and concrete surface must be cleaned. The stone and metal surface must be polished if too smooth.
- 混合方法：**用小铲分别取等量帮然干挂胶A组份和B组份，置于平滑板面上面（A、B组份不要共用小铲），再用小铲将A和B组份充分翻拌，至混合均匀、色泽一致，即可使用。已调合的胶超过施工有效时间绝对不能使用。常温 23℃时施工，有效施工时间为20分钟，凝胶时间25分钟，完全固化需要24小时。超过施工有效时间的粘合件不得再作移动，如需移动，则要重新调胶粘贴。
- Mixed method:** use a shovel to take same amount of A and B, place on a smooth board(do not share the shovel),then mix A and B thoroughly according to the regulated ratio till the uniform color achieved.The mixed adhesive over valid time should not be used any more.Around 23°C, valaid time is 20 min,for installation,then it takes 25min,to freeze and 24h to fully cure.The object should not be moved after valid time,if necessary,then requires re-adhesive.



植筋胶

Injection mortar

1、概述 Summary

植筋是我国工程界广泛应用的一种后锚固连接技术，是以化学粘接剂将带肋钢筋、螺杆等粘接固定于基材钻孔中，通过粘接与锁键作用，以实现对被连接件锚固的一种组件。

主体成分：高强环氧树脂、改性胺、石英粉。

The injection anchorage is a kind of post-anchor technology, which widely used in China,fix the steel bar and bolt to the concrete with chemical adhesive, to connections.

Main components: high-strength epoxy resin,modified amine,quartz powder.



2、应用范围 Application

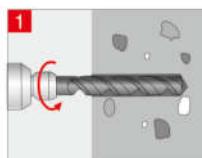
该产品用于建筑拉接筋、建筑幕墙锚固、桥梁加固、水库加固、旧房改造等的钢筋或锚栓结构性植入固定。
Applicable for construction tendons, curtain wall,bridge reinforcement,reservoir reinforcement,renovation.

3、规格型号 Specification

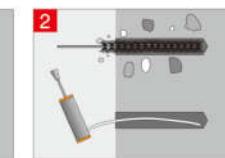
塑料管装：360ml/支，每箱20支

Plastic tube: 360ml/pc,20pcs/ctn.

4、施工方法 Construction method



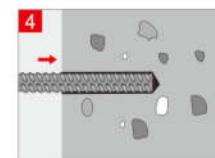
1、钻孔



2、清孔



3、注入植筋胶



4、置入钢筋

根据所选锚杆型号确定
钻孔直径和深度。

使用毛刷和气筒将孔彻
底清洁。

用胶枪将植筋胶从孔底
部注入。

置入钢筋，根据环境确定
胶体固化时间。

1.Drill holes Determine the hole diameter and depth according to the screw bolt.

2.Clean holes Completely clean the holes with brush and inflator.

3.Insert injection mortar Fill the hole with injection mortar with glue gun.

4.Place the steel bar Place the steel bar,determine the curing time according to the environment.

S-125石材养护剂

Stone care product

1、概述 Summary

以改性的有机硅氧烷为基础，能有效渗入石材毛细通道，通过潮气的催化作用，与石材充分结合形成一个纵深的、持久的防护层，石材表面不留任何痕迹，并保持石材的透气性，即使石材表面部分磨损，内部仍具有优良的防护性能。该产品具有十分优秀的防水性，提供最佳的“水珠效应”，能有效锁住水、咖啡、茶等污物对石材的侵害，有效防止石材的吐黄等各种病症的出现，该防水剂具有优良的抗老化性、使用寿命长，是一种经济、环保、高效型石材防水剂。

MAINTENA S-125 is formulated for water-proof based modified organosilicone. It penetrates into the stone and forms a lasting film which can effectively prevent the stone from dust and water-based pollution such as water, coffee, sauce and tea. Application of S-125 can provide the effect of lotus leaf of water-proofing.



2、应用范围 Application

各类石材光板、毛板、斧剁板、石雕、瓷砖以及混凝土等石制品的防水。

Caring on all kinds of natural and artificial stone and stone crafts,ceramic tiles and concrete.

3、规格型号 Specification

	1升 liter	5升 liter	10升 liter
听/箱Can/ctn	12	4	2

4、施工方法 Construction method

- 彻底清洁石材、人造板材表面，为了使防护剂能有效渗入石材、瓷砖内部。
- 充分干燥石材、瓷砖。
- 用毛刷或喷枪喷洒均匀涂布防护剂，使表面充分饱和。
- 静置15~30分钟，使用干净抹布将残留在石材、磁砖表面的防护剂除去。
- 如遇特殊情况需作二次涂布，第二次涂布时需与前次涂面时间间隔45分钟再重复以上步骤。
- 置于阴凉干燥处养生24小时后，方可进行其它安装工作。

- Clean the stone surface to help the penetration.
- Dry the stone or ceramics completely.
- Apply with a brush or sprayer evenly on the surface, ensure the coverage.
- Clean the excess off the surface after 15-30min.
- If it's necessary for re-spraying, make sure it's after 45min.
- Further process can be applied after 24h in cool and dry places.

5、注意事项 Attention

- 施工完后24小时内严禁雨水侵袭。
- 零度以下不得施工。
- 该产品施工后一周左右，某些石材表面可能会出现“吐白”现象，而影响光泽，请采用清水将其清洗干净，并不会影响防护效果。
- 建议客户在使用本产品前，请先做好小样测试，以确认色差及防护效果是否被接受，待被接受再行大面积处理。
- Do not expose to rain in 24h after installation.
- Do not apply under zero degree.
- White marks may occur on the treated surface one week after installation and it will not affect the protective effect. Please clean it with water.
- Small sample test is recommended before application to make sure the color change and protective effect can be accepted.

S-128石材养护剂

Stone care product

1、概述 Summary

美特能S-128具有超强的渗透力，渗入石材形成坚固、持久的晶体层，能有效保护石材不受污染。

Maintena S-128 has powerful penetration, into stone and forms strong, lasting crystalloid layer, keeps stone away from pollution effectively.



2、应用范围 Application

适用于各类石材光板、毛板、斧剁板、石雕、瓷砖以及混凝土等石制品的防护，尤其推荐于高要求的石制品的全方位养护如建筑外墙、文物、停车场、食品店、饭店、卫生间等。

Applicable for care on all kinds of natural and artificial stone products, especially recommended to use on outdoor stone curtain wall, antique stonewares, parking lot, tuck-shop, restaurant, hotel, kitchen and toilet.



3、规格型号 Specification

	1升 liter	5升 liter	10升 liter
听/箱Can/ctn	12	4	2

4、施工方法 Construction method

同S-125石材养护剂施工方法。

Same with S-125 stone care product construction method.

5、注意事项 Attention

- 建议客户在使用本产品前，请先做好小样测试，以确认色差及防护效果是否被接受，待被接受再行大面积处理。
- 施工完后24小时内严禁雨水侵袭。
- 一些致密石材光板可能会成膜现象。请在大面积操作前做小试确认。
- Small sample test is recommended before application to make sure the color change and protective effect can be accepted.
- Do not expose to rain in 24h after installation.
- Small sample test is recommended in case some high density stone may form film after installation.



S-130石材养护剂

Stone care product

1、概述 Summary

美特能S-130具有超强的渗透力，渗入石材深部~2cm深层次改善并强化石材结构，形成防水、防污保护层，防止石材变色、风化。

Maintena S-130 has powerful penetration, 1-2 cm into stone, helps modify and strengthen stone structure, forms water-proof, anti-pollution layer, and prevents discolor or weathering.



2、应用范围 Application

适用于各类石材毛板、斧剁板、石雕、瓷砖以及混凝土等石制品的防护，尤其推荐于高要求的石制品的全方位养护如建筑外墙、文物、停车场、食品店、饭店、卫生间等。

Applicable for care on all kinds of natural and artificial stone products, especially recommended to use on outdoor stone curtain wall, antique stonewares, packing lot, tuck-shop, restaurant, hotel, kitchen and toilet.



3、规格型号 Specification

	1升 liter	5升 liter	10升 liter
听/箱Can/ctn	12	4	2

4、施工方法 Construction method

同S-125石材养护剂施工方法。

Same with S-125 stone care product construction method.

5、注意事项 Attention

- 建议客户在使用本产品前，请先做好小样测试，以确认色差及防护效果是否被接受，待被接受再行大面积处理。
- 施工完后24小时内严禁雨水侵袭。
- 一些致密石材光板可能会成膜现象。请在大面积操作前做小试确认。
- Small sample test is recommended before application to make sure the color change and protective effect can be accepted.
- Do not expose to rain in 24h after installation.
- Small sample test is recommended in case some high density stone may form film after installation.



C-105云石除锈剂

Rust remover

1、概述 Summary

美特能C-105由非离子表面活性剂为基础，能快速渗入石材内部将铁锈转化，并改变锈蚀部位，迅速恢复石材本色，不损伤大理石、石灰石表面，残留液极易被水冲洗，是一种无色、无气味的环保型除锈清洗剂。

MAINTENA C-105 is a rust remover for marble based of a non-ionic surface active agent,without hydrochloric acid.It transforms the rust to dissolvable substance and recovers the original color of the stone,colorless and with slight odor.



2、应用范围 Application

该产品适用于所有石灰质石材（如大理石、石灰石等）上彻底去除锈黄、白华等污物。

Applicable for removing rust from all kinds of natural and artificial stones (marble,sandstone,shale,slates and ceramic tiles).

3、规格型号 Specification

	1升 liter	5升 liter	10升 liter
听/箱Can/ctn	12	4	2

4、施工方法 Construction method

- 清除石材、人造板材表面的机械杂质。
- 将云石除锈剂涂盖于发生锈黄之处，并以保鲜膜覆盖于混合物之上，以防止处理剂蒸发（覆盖时间视锈黄程度而言，一般覆盖时间3-6小时）。
- 若锈黄已被清除，则用清水大量将所处理表面清洗干净。
- 若锈黄未被除去，则延长覆盖时间，如有必要可加滴少量云石除锈剂于病变处。
- 若锈黄已被除去，则烘干石板并依正常程序进行防护处理，以避免锈黄再次发生。
- Remove mechanical impurity from surface.
- Apply the remover on the stains and cover with plastic film to prevent fast evaporation.(normally 3-6h).
- Clean with water thoroughly if the rust has been removed from the surface.
- Prolong the action time if the rust still exist.Add more remover if necessary.
- Dry the stone and treat with stone care products to prevent possible rust in future.

C-106麻石除锈剂

Rust remover

1、概述 Summary

美特能C-106由非离子表面活性剂为基础，不含盐酸，能渗入石材内部将铁锈转化成有效成分，改变锈蚀部位，迅速恢复石材本色，同时还能有效去除白华、残留的水泥砂浆多年的尘垢。残留液极易被水冲洗，是一种无色、无强气味的除锈清洗剂。

MAINTENA C-106 is a rust remover for granite based of a non-ionic surface active agent,without hydrochloric acid.it transforms the rust to dissolvable substance and recovers the original color of the stone,colorless and with slight odor.



2、应用范围 Application

所有抗酸性的石材、人造板材彻底去除锈黄、混凝土薄层、白华等污物。

Removing rust for all kinds of natural and artificial stones (granite,sandstone,shale,slates and ceramic tiles).

3、规格型号 Specification

	1升 liter	5升 liter	10升 liter
听/箱Can/ctn	12	4	2

4、施工方法 Construction method

- 清除石材、人造板材表面的机械杂质。
- 将麻石除锈剂涂盖于发生锈黄之处，并以保鲜膜覆盖于混合物之上，以防止处理剂蒸发干（覆盖时间视锈黄程度而言，一般覆盖时间3-6小时）。
- 若锈黄已被清除，则用清水大量将所处理表面清洗干净。
- 若锈黄未被除去，则延长覆盖时间，如有必要可加滴少量麻石除锈剂于病变处。
- 若锈黄已被除去，则烘干石板并依正常程序进行防护处理，以避免锈黄再次发生。
- Remove mechanical impurity from surface.
- Apply the remover on the stains and cover with plastic film to prevent fast evaporation.(Normally 3-6h).
- Clean with water thoroughly if the rust has been removed from the surface.
- Prolong the action time if the rust still exist.Add more remover if necessary.
- Dry the stone and treat with stone care products to prevent possible rust in future.



鱼跃图腾

旗鱼突破自我，致力于改变行业落后现状，引领加工工厂化，施工装配化的建筑技术新方向。我们凭借自身专业成熟的技术，稳定可靠的产品性能以及系统全面的产品成为石材（人造板材）幕墙挂装系统行业的一面旗帜。



中国银行信息中心
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CORE IDEA 核心理念

战略发展、主导思想

VISION PLANNING 视野规划

全球化的前瞻性

太原经济技术开发区
高新技术企业孵化基地
TAIYUAN ECONOMIC AND TECHNICAL DEVELOPMENT ZONE HIGH-TECH ENTERPRISES EXPECTING BASE

杭州市反恐指挥中心
HANGZHOU ANTI-TERRORISM COMMAND CENTER

CITY COORDINATE 城市坐标



● 太原市国际金融中心
TAIYUAN INTERNATIONAL FINANCIAL CENTER

CONCENTRATE 专注

基于品质、敢于创新



● 嘉善市总商会
JIASHAN GENERAL CHAMBER OF COMMERCE

SYSTEM CULTURE 制度文化

内涵高于精神



余姚建工大楼
YUYAO CONSTRUCTION BUILDING



长春科技馆
CHANGCHUN
SCIENCE AND
TECHNOLOGY HALL



台州市电力调度大楼
TAIZHOU ELECTRIC
POWER DISPATCHING
BUILDING

BUSINESS NEGOTIATION 商务洽谈

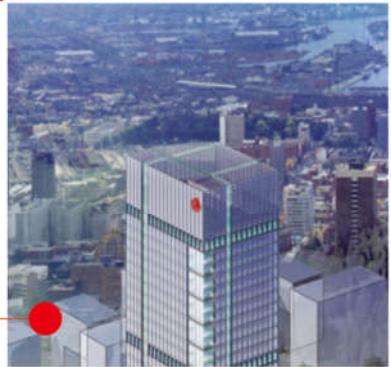
从客户出发，为客户服务



郑州市希尔顿酒店
ZHENGZHOU HITON HOTEL



WENLING
CONSTRUCTION BUILDING
温岭建筑业大厦



广州移动南方基地
SOUTH BASE OF
GUANGZHOU MOBIE



DETAIL DESIGN 节点设计

生产精准化、装配规模化



上海世博会中国馆
SHANGHAI EXPO CHINA HALL

PRODUCT ANALYSIS 产品分析



南京市委党校
NANJING MUNICIPAL PARTY
COMMITTEE PARTY SCHOOL



TECHNICAL SERVICE 技术服务

指导耐心、安装严谨、维护周到



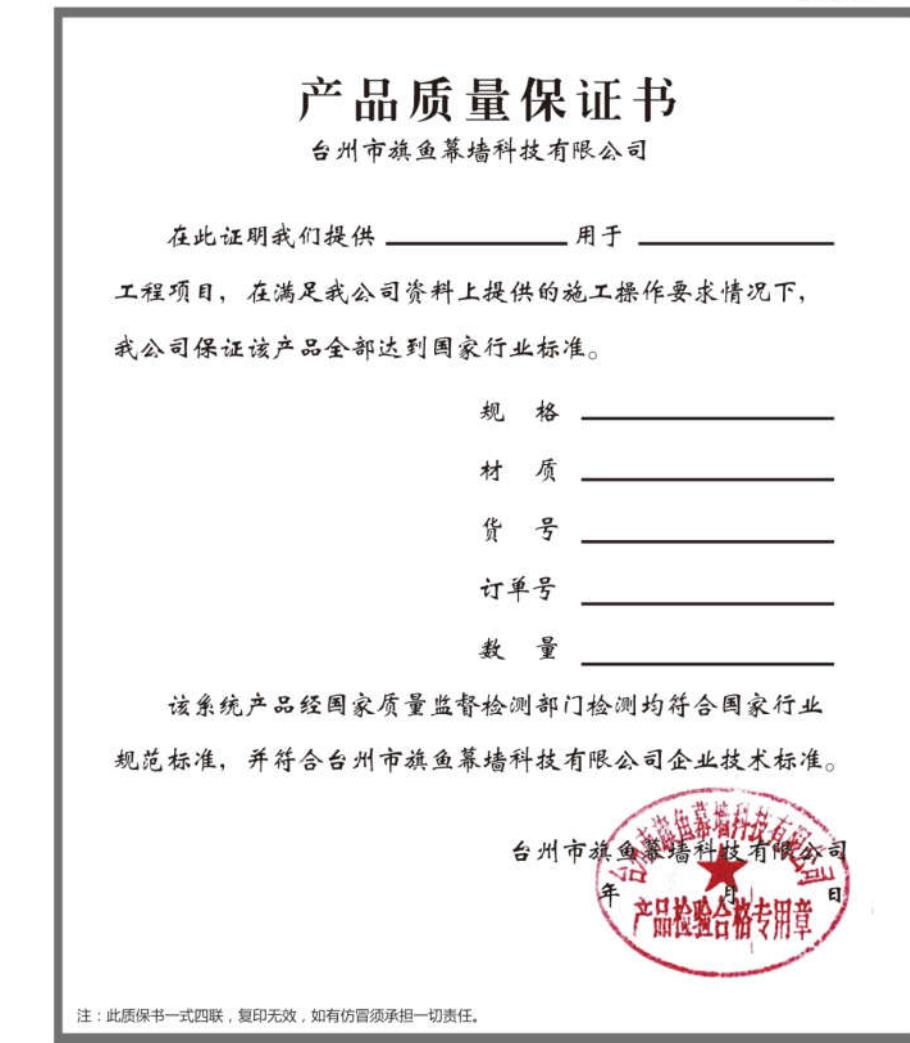
CENTER
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湖北出入境检验检疫局
综合实验楼
INSPECTION AND
QUARANTINE BUREAU

产品质量保证书
Product quality assurance book

如使用旗鱼公司生产的旋进式背栓及相关配套产品，我们会针对工程开具一式四联的产品质量保证书，包括：业主联、监理联、施工联、留存联，复印无效。方便各方控制产品数量和质量。



一式四联各为：①业主联 ②监理联 ③施工联 ④留存联

附录
Appendix

资质认证 QUALITY CERTIFICATION



专利注册 PATENT

