

企业简介 Company

嘉兴合邦机械科技有限公司具备完善的不锈钢热处理和表面处理工艺，是制造优良不锈钢紧固件的实力型企业。公司以马氏体不锈钢（SUS410）钻尾自攻螺钉、自攻螺钉、不锈钢工程螺栓类紧固件为主打产品，产品应用于多种钢结构建筑、户外设施设备及地铁、隧道、公路、电网、汽车、造船等行业；首都机场T3航站楼、央视大厦、北京南站、上海虹桥高铁、2022亚运主场馆杭州奥体中心、上海迪斯尼、首钢京唐钢铁、宝钢湛江钢铁等等标志性建筑上都有合邦科技的产品在默默坚护。

Jiaxing Unitek Machinery Co., Ltd. Has perfect stainless steel heat treatment and surface treatment technology. Company to martensitic stainless steel (SUS410) drill tail self-drilling screw, self-tapping screw, give priority to dozen of product engineering bolt fasteners, stainless steel products used in a variety of steel structure building, outdoor facilities and subway, tunnels, roads, power grids, automobile, shipbuilding and other industries; The capital airport T3 terminal, CCTV tower, Beijing south railway station, Shanghai hongqiao high iron, 2022 Asian games stadium in hangzhou, shougang Beijing Olympic sports center, Shanghai Disney tang steel, baosteel zhanjiang iron and steel, and so on on the landmark buildings have a close bond technology products in the silent guard.

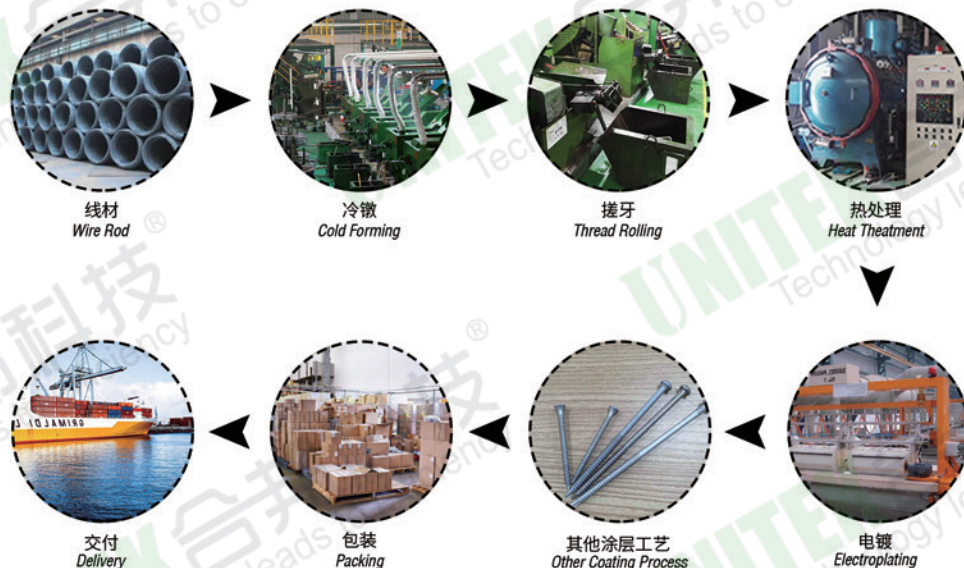


以客为尊 · 质量先导
Customers first · Quality leader

科学创新 · 持续改进
Scientific innovation · Continuous improvement

公司座落于风景秀丽的江南水乡—浙江省嘉兴市经济技术开发区，沪杭高速、申嘉湖高速、乍嘉苏高速、杭浦高速穿境而过，长三角地理中心，与上海、杭州、苏州、绍兴、湖州均50分钟车程，与宁波、无锡1.5小时车程内。

The company is located in the beautiful scenery of watery region-Economic and Technological Development Zone of Jiaxing, Zhejiang Province. Huhang high-speed, Shenjiah high-speed, Zhajiasu high-speed, Hangpu high-speed passing through, geographical center of Yangtze river delta. To Shanghai, Hangzhou, Suzhou, Shaoxing, Huzhou all 50 minutes drive, and to Ningbo, Wuxi within 1.5 hours.

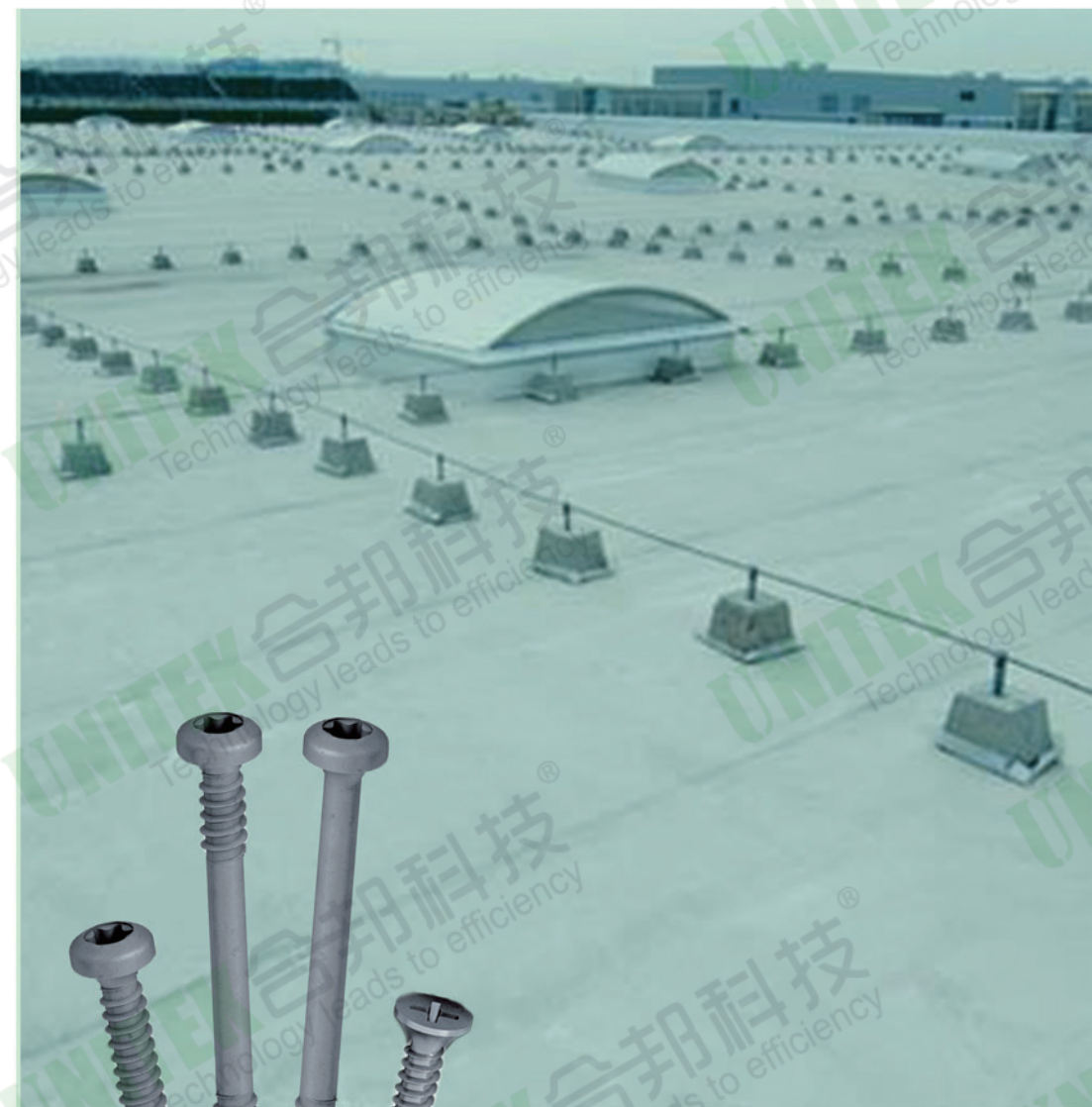


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UNITEK®



**waterproof
of roofs fasteners**
Application manual
屋面防水紧固件应用手册

产品描述 Product Description



伞牙钻尾钉为合邦针对屋面防水系统领域特殊研发的钻尾钉，该螺钉的钻尾与螺杆过渡连接，并在尺寸过渡部位设有过渡螺纹，有效保证螺钉钻入时端部螺纹成孔—过渡螺纹打磨—螺杆螺纹咬合受力的过程。

Umbrella nail drill tail for UNITEK to special research and development in the field of roof waterproofing system drilling screw, the screw drill end connected to the screw transition, transition area and the size has transitional thread, effectively guarantee the screw down the end thread into thread grinding-screw thread hole - transition process of occlusal force.

特征与优势 Features And Advantage



·高效驱动 (Efficient drive)

- | | |
|---------|--------------------------------|
| 内梅花驱动器 | Torx head |
| ·增加安装扭矩 | Better torsion force |
| ·螺钉磨损小 | Less screw abrasion |
| ·提高安装效率 | Higher installation efficiency |



·抗拉拔力高 (High pull-out force)

- | | |
|----------------------|--|
| 特殊钻尾设计和反螺旋牙纹 | Special drill bit and Buttruss thread |
| ·特殊钻尾成孔 | Special drill bit generates hole |
| ·反螺旋牙纹使得螺钉易进难出，提高拉拔力 | Buttruss thread makes fastener "easy-in no out" to get higher pull out force |



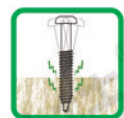
·抗折弯性 (Bending resistance)

- 避免由于动态风载或踩踏造成固定件折弯
Avoid fastener bending caused by wind load or foot traffic , and then affect system performance.



·抗腐蚀性 (Corrosive resistant)

- | | |
|-------------------------|---------------------------------------|
| 抗腐蚀性-“泰尼克 (Technik)” 涂层 | Corrosive Resistant-"Technik" coating |
| ·抗酸雨测试15个循环 | 15 cycle Kesternich |
| ·抗盐雾测试1500小时 | 1500h salt spray resistance test |



·抗松动性 (Backout resistance)

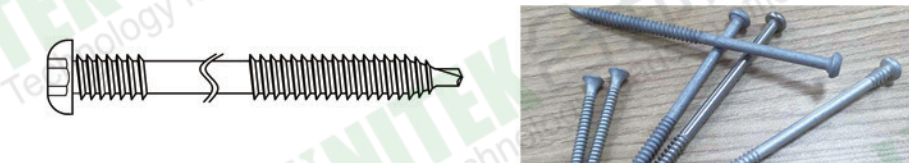
- 反螺旋牙纹设计使得其与钢板咬合部位在动态风荷载作用下的抗松动性增强
Buttruss thread design enhances the fastener backout resistance performance under dynamic wind load

产品应用 Product Application



适用基层 Substrate		
冷轧钢板 Cold Rolled Steel Deck	不锈钢板 Stainless Steel Deck	木板 Timber
0.6mm~1.5mm	≤2mm	≥18mm

产品规格 Product Standard



沉头内六角伞牙钻尾钉ST4.8 (2#钻尾) / 盘头梅花槽伞牙钻尾钉ST6.3 (2#钻尾)								
材质	牙纹	长度/mm						
碳素钢/ SUS410/ 双金属	全牙	32	50	55	60	65		
	半牙	75	90	100	120	125	140	150
	双段螺纹	160	165	170	175	180	200	230 250

性能数据 Performance Data

拉拔性能 / kN Pull-Out Performance

ST4.8

材质 Material	Q235 铁板 Q235 Iron plate		铝板 Aluminium
	1.0mm	1.8mm	
碳素钢	-	-	-
SUS410	2.4	4.8	1.7
双金属	1.9	4.3	1.5

ST6.3

材质 Material	Q235 铁板 Q235 Iron plate		铝板 Aluminium
	1.0mm	1.8mm	
碳素钢	2.1	5.1	2.2
SUS410	2.7	4.0	1.9
双金属	2.8	6.1	2.2

机械性能 Mechanical performance

材质 Material	拉伸力 (kN) Pulling strength		剪切力 (kN) Shear force	
	ST4.8	ST6.3	ST4.8	ST6.3
碳素钢	-	18.5	-	24.3
SUS410	17.2	22.2	14.4	31.3
双金属	-	11.7	14.8	20.7

涂层介绍 Coating Introduce

(高耐蚀——1000小时无红锈) High corrosion resistant-1000 hours with no red rust

皮膜层 Coating		防锈结构 Rustproof structure
第1层 1st layer	金属电镀层 Metallic zinc layer	铁材被防腐性电镀保护 The steel/iron substrate is protected from corrosion by the self-sacrificial galvanic effect of zinc coating. 防锈性加强，并在化成层和涂装层作不活性电镀和附着面 Rustproof performance is improved,as the chemical conversion inactivates the zinc plated surface and attributes to tight adhesion between chemically converted layer and paint-layer 包含以强韧防锈材料之皮膜 Intrusion of corrosive factors are intercepted by the strong paint film made of ceramic materials.
第2层 2nd layer	化学成分皮膜层金属 Chemical conversion coating layer	
第3层 3rd layer	表面烧附层 Baked ceramic surface coating layer	

(超耐蚀——1500小时无红锈) Super no red rust corrosion-1500 hours

高耐腐蚀性 High corrosion resistance	盐水喷雾试验1500小时以上 Saltine spray test for more than 1500 hours.	锌 (Zn) 螺钉电镀层 Screw plating 彩钢内部断面 Color: steel internal section. 阳极：金属锌失去电子，形成锌金属氧化 Anode: metal zinc loses electrons, forming zinc metal oxidation.
无氢脆 No hydrogen brittleness	基材为不锈钢，处理过程无酸洗，毫无氢脆之虞 The base material is stainless steel, the treatment process has no pickling, millisecond.Risk of hydrogen embrittlement	
绿色环保 Environmental protection	不含有害物质，如铬酸、铅、镉 Do not contain harmful substances, such as chromic acid, lead, cadmium.	SUS410螺钉基材 SUS410 screw base material 镀锌层 The galvanized layer 表面皮膜层、烧附层 The surface layer and the burning layer
低温处理 Subzero treatment	低200℃温度处理过程不会造成物质变化 Low temperature 200 °C process will not result in a material change	
耐药物性 The drug resistance	耐碱、耐紫外线、强烈耐酸雨 Alkali resistance, uv resistance, strong acid rain.	
耐候性 weather resistance	-60℃-550℃	

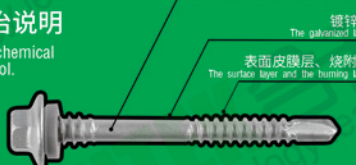
电化学腐蚀防治说明

Description of electrochemical corrosion control.



阴极：金属钢获得电子，形成阴极保护
Cathode: metal steel gains electrons to form cathodic protection.

电化学反应示意图
Diagram of electrochemical reaction



配套垫片 Matching Gasket

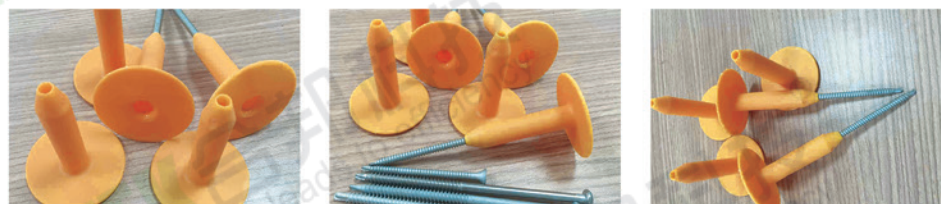


名称 Name	材质 Material	尺寸 Size	应用 Application
UR	镀锌钢板 Galvanized Steel	1.0mm*25mm*2000mm	用于屋面周边等部位加强固定 Reinforced Fixation at Areas of Roof Perimeter,etc.
FRP 1	铝合金 Aluminium Alloy	2.0mm*20mm*2000mm	用于防水层安装端部等部位压紧密封 Membrane termination
FRP 2	铝合金 Aluminium Alloy	2.0mm*25mm*2000mm	用于防水层安装端部等部位压紧密封 Membrane termination



名称 Name	材质 Material	尺寸 Size	适用基层 Substrate
EE 1	镀铝锌板 Alu-zinc Steel Sheet	80*40mm	固定卷材于软质基层 Press Membrane On Soft Surface
EE 2	镀铝锌板 Alu-zinc Steel Sheet	80*40mm	固定卷材于硬质基层 Press Membrane On Hard Surface
SE 1	镀铝锌板 Alu-zinc Steel Sheet	70*70mm	固定软质保温板 Soft Insulation Fixation
RD 1	镀铝锌板 Alu-zinc Steel Sheet	60mm	固定硬质&软质保温板 Hard & Soft Insulation Fixation
RD 2	镀铝锌板 Alu-zinc Steel Sheet	60mm	固定卷材于硬&软质基层 Fix Membrane On Hard & Soft Surface

塑料套管 Plastic Sleeve



名称 Name	材质 Material	尺寸 Size	适用基层 Substrate
PTW-R	纯新料改性聚丙烯 First-hand Mod.PP	35mm~165mm	岩棉 Mineral Wool 泡沫板 Foam Board 硬质玻璃棉 Composite Glass Wool

使用说明 Instructions

