



卓越品质 畅销全球
SUPERIOR QUALITY GLOBAL BRAND

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产品手册
PRODUCT MANUAL
卓越品质 畅销全球

SUPERIOR QUALITY GLOBAL BRAND

无锡东方欣宏环保科技有限公司
Wuxi Oriental Xinhong Environmental Protection Technology Co., Ltd.



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COMPANY PROFILE

卓越品质 畅销全球



无锡东方欣宏环保科技有限公司是从事高强度中空注浆锚杆的生产企业，本厂座落于太湖之滨无锡惠山高新技术开发区，南临沪宁铁路与城铁，毗邻沪宁高速和京杭大运河，交通十分便利。我公司生产的产品主要用于：隧道，地下工程，边坡的治理，基坑的支撑，矿山开采。我们一直致力于中空注浆锚杆的研究和开发，并积累了这方面的经验，也获得了“无锡市优质产品”的称号。我们的产品质量可靠，经济实惠，技术先进，我们为工程建设提供新颖，可靠，经济的产品保障。

我公司拥有着雄厚的技术力量，先进的生产设备，完善的管理体系。同时，结合公司发展的强劲势头，严格的生产、管理、检测体系的成熟，我公司产品的质量与品种不但得到了稳步的提高和递增，而且优秀的品质与售后服务团队满足了海内外客户的需求。

我公司的经营目标为：

- 提高自我竞争机制，保持行业领先地位；
- 题献重要资源，不断研发新品；
- 呈送优质、安全、环保的产品于客户手中；
- 笑迎市场竞争，优化产品最大值；
- 创造竞争氛围，促进自我成长；
- 为客户不断探索新的市场机遇。

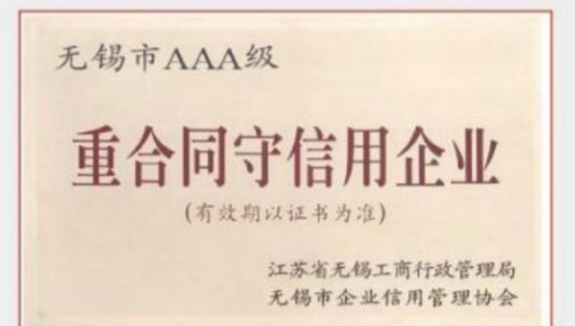
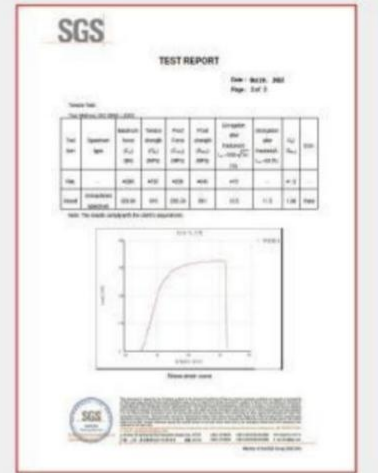
在新的世纪里无锡东方欣宏环保科技有限公司将一如既往的以客户满意，合理的价格，优良的品质，完善的服务，不断创新为经营宗旨，与您携手共进，共创新里程！

企业法人：莫燕萍

Welcome To Wuxi Oriental Xinhong Environmental Protection Technology Co., Ltd Established in the year 2016, we are manufacture and supplier of Rock Bolts, Self-Drilling Anchor Bolt, Thread Hollow Bar, Rock Rods with ISO 9001:2008 Certification.Xinhong has been striving to provide excellent quality rock drilling tools for tunneling project,mining exploration,hydro engineering projects and other infrastructure construction etc.

The entire rang of products are entirely manufactured by our expert professionals by making use of latest technology and advance tools&machines for the advancements of all our products .We have Tensile Testing Machine to test the bar quality,so that to guarantee all of the products delivered to customers are qualified. Available in different sizes and specifications,our products are extensively appreciated for their durability,seamless finishing service life.

We have had long term cooperation with China Railway Construction Croup Co.,Ltd, China Railway Tunnel Overseas Engineering Co.,Ltd , Sinohydro Group Ltd And China Railway Tunnel Stock Co.,Ltd etc. Xinhong is confident for the challenges in the development .In the future ,we'll make full use of practical experience to research and develop more new and better products.Customers are always our priority .Xinhong devotes itself to provide one-stop service for every customer and seek long-team development. We'll keep improving the quality of products and service ,hoping can cooperate with you in the future,thanks.





中空锚杆产品介绍 INTRODUCTION ROCK BOLT

锚杆是基建工程上用于锚固系统的主要功能部件。通常它主要由：杆体，锚头，垫板，连接套，螺母组成。作为结构施工工程上的主要支撑物，中空锚杆多用于隧道和矿山等一些以安全性为首的工程上。

为在不同土质环境下更好的构建锚固系统，东方欣宏结合新奥法，浅埋暗挖法等施工原理，研制出多款中空锚杆，在梁式锚杆支护法，悬吊法，楔入法，拱形表层控制法等锚固方案中被采纳。

In infrastructure project, rock bolt play an important role in Anchorage System, which mainly consists of anchor bar, anchor cover, anchor plate, coupler, nut. Rock bolt are used as the main support for structures such as tunnels and mines where safety is critical.

For the purpose of better construction of anchorage system under different geological conditions. Xinhong combined with the construction principle of NATM and Shallow Tunneling as well as shield Method and developed variety of hollow grouting rock bolt which are applied to Beam building, Suspension, keying and Surface control-natural arch.

分类 CATEGORY



按照锚固方式，锚杆可以分为机械式和粘结式以及混合式。按其锚固长度又可分为，端部锚固和全长锚固和加长锚固。

According to the anchorage method, the rock bolt can be divided into mechanical type, bond-type and hybrid type.

It also can be divided into point anchoring type, full length anchoring type and extend anchoring type in accordance with the anchoring length.



锚杆种类

TYPE OF ROCK ANCHOR BOLT

注浆型和机械型预应力锚杆、拉力型和压力型预应力锚杆、荷载分散型锚杆、全长粘结型锚杆、可拆芯式锚杆、树脂卷和硬块水泥卷锚杆、中空注浆锚杆、摩擦型锚杆。
The Rock Bolt can be divide into Grout & Mechanical Pre-stress Anchor、Tensioned & Pressure Pre-stress Anchor、Load-dispersive Anchor、Full-length bond Anchor、Core Removable Anchor、Resin and Cement bolt、Hollow Grouting rock bolt、friction anchor bolt.

产品应用领域

APPLICATION

煤矿巷道	CoalMine roadway
临时支护	Temporary Support
地铁隧道	Subway tunnel
巷道支护	Roadway support
边坡支护	Slope supporting
岩面锚固	rock supporting
港口基坑	Port of foundation pit
海堤河坝	Seawall Damming
隧道建造	Tunnel Construction
边坡治理	Slope governance
基坑护壁	Foundation pit wall
矿山开采	Mining

适用条件 Application condition

岩体加固 Rock mass reinforcing

地质条件复杂，钻孔后极易崩塌的地层支护（自钻式中空锚杆）
Complicated geological conditions. Easily collapsed stratum after drilled.

隧道、地下工程或边坡工程长度大于2.5m的锚杆支护
Anchorage Length over 2.5m for Tunnel、Underground project or slope project

单锚拉力设计值100-350kN
Design value of tensile force is 100-350kN for Single Anchor

公司产品及参数

CATEGORY WITH MECHANICAL PROPERTY

普通锚杆

Common Anchor bolt (CECS22-2005)

主要由：中空锚杆杆体、垫板、螺母、止浆塞、锚头等组成。广泛应用于隧道，采矿，边坡稳固以及地下工程的支护。适用于一些松散的地质结构的锚固（碎石，沙性以及易裂性土层）。

Consists of Anchor body (Tendon)、Anchor Plate、Nut、grouting plug、Anchor Head。It has been widely used in tunnel mining, slop stabilization and Underground anchoring project. It is fit for loose grounds like clay sand friable soil.



特点

FEATURE

- 中空设计，注浆饱满，可实现压力注浆，提高工程质量。
- 居中性好，砂浆包裹严实，实现长期支护。
- 安装方便，无需现场加工螺纹即可安装垫板，螺母。

- Hollow design, fully grouting, achievable pressure grouting, improve the quality.
- Perfect Center Point, mortar can entirely wrap the bolt.
- Easy assembly, on-site thread fabricate is unnecessary, Plate and nut could be easily installed.



Thread Type R&T for option

欣宏自钻式中空锚杆

Core product Self-drilling anchor(CECS22-2005)

自钻式锚固系统是一项给土层和岩层进行锚固的解决方案。这项先进的锚固技术能使钻孔和注浆同步进行。因此大大降低成本。而锚杆杆体长度能够被切割并通过连接套拼接，以满足不同需求。并且它可以确保在复杂地质条件下保持长期支护。

Self-drilling anchor consists of a hexagonal nut, bearing plate, extension couplings, (if the anchor consists of several anchor rod sections), hollow anchor rods, a sacrificial drill bit.

Xinhong self-drilling anchor (SDA) system is a bolting solution for difficult ground and rock conditions. The system achieves drilling and grouting simultaneously for the purpose of cost-saving and time-saving. Self-drilling anchor bolt is an advanced anchor system, and the anchor bars can be cut & lengthened by coupling according to different demands. It also can ensure the anchor keep working under complex ground conditions for a long time.



特点

FEATURE

- 简化钻土，锚固安装以及注浆等施工工序
- 施工时，锚杆的安设和钻杆的更换无需分开进行。
- 不同土质环境下，操作原理相似
- 针对不同地形，仅需更换钻头。
- 中空设计用于钻孔过程中，气体和水对锚固肌腱进行的冲刷
- 连接套便于调整长度。
- 能够与小型钻具结合，不受空间限制。
- 可根据要求进行防腐处理。

- Drilling, anchor installation and grouting in single operation.
- Separate anchor installation or removal of casing and drill rods is not required
- Similar installation methods for all ground conditions
- Choice of drill bits for different ground conditions
- Hollow core is used for flushing with air or water during drilling along with grouting the anchor tendon
- Flexibility in length by using couplers
- Ability to work with small drill rigs without casing in restricted headroom conditions
- Enhanced corrode protection available upon request.

涨壳式中空注浆锚杆

Swelllex/Expansion Shell Hollow Grouting Anchor Bolt (CECS22-2005)

涨壳式中空注浆锚杆是由涨壳锚头、锚杆体、钢筋体、垫板、止浆塞、螺母、连接套（可选用）组成。

The product consist of expansion shell、anchor rod、rebar、anchor plate、grouting stopper、anchor nut and couple(optional)



特点

FEATURE

- 操作简单，使用方便，保证预应力施加能及时进行。
- 主动张拉，预应力可达50KN，并可实现适当的超张拉。
- 利用常规工具，单人即可控制。通过中空杆体实现高压注浆、通过渗透加固围岩。操作者全程控制，保证质量。
- Installed simply and easily. Ensure that the prestressing can be conducted in time.
- Active tensioned, the prestress can up to 50KN. An appropriate extremely tension is available.
- Conventional tools for operation, can be managed by one person. To achieve the high-pressure grouting through the hollow rod then enhanced the stabilization degree of surrounding rock. Workers can control the procedures at any time.

应用范围

APPLICATIONS

用于地质条件中等良好的围岩永久系统支护，超前预支护，尤其在硬岩，岩层水平层理，节理，裂隙，开夹泥或地下水发场合，通过涨壳锚杆迅速形成支护力，通过施加足够的预应力来控制围岩变形，保持稳定。

It can be a permanently anchoring system or a forepoling bolt in the surrounding rock where the geological condition is good. It can operate a supporting force rapidly and give the surrounding rock a pre-stress force to maintain its stability. Especially in the hard rock, rock horizontal bedding and jointing or hydrologic areas.

中空锚杆类型 Type of the Anchor	材料 Material	锚杆结构参数 Parameters				锚杆力学性能 Mechanical Property			螺纹类型 T
		外径(mm) Dia	壁厚(mm) Thickness	杆体标准长度(m) Standard Length	钻孔直径(mm) Bore Hole Dia	杆体极限拉力 Ultimate Load (kN)	预应力 Prestressing (kN)	延伸率 Elongation (%)	
普通中空锚杆 Regural	碳素钢 carbon steel	25-32	4-6	2.5-8.0	42-75	145-290	—	≥6	T
自钻式 Self Drilling	合金钢 alloy steel	25-51	5-8	2.0-6.0	42-110	180-650	—	≥8	T
涨壳式 Swell	合金钢 alloy steel	25-51	5-8	2.5-8.0	42-110	150-640	60-150	≥6	T

以上参数和原料选择均符合CECS22-2005的常规要求。

The above Mechanical property、Parameters and Material Grade all meet the Standard of CECS22-2005.

国家铁道部行业锚杆

ROCK BOLT FOR MINISTRY OF RAILWAY INDUSTRIAL(TB/T3209-2008)

普通锚杆 (铁标)

Common Anchor bolt (TB/T3209-2008)



由中空锚杆杆体、垫板、螺母、止浆塞、锚头等组成。
Consists of Anchor body (Tendon), Anchor Plate, Nut, grouting plug, Anchor Head.

砂浆锚杆 (铁标)

Common Anchor bolt (TB/T3209-2008)



由钢筋体、垫板、螺母、止浆塞、锚头等组成。
Consists of Rebar Tendon, Anchor Plate, Nut, grouting plug, Anchor Head.

组合式锚杆 (铁标)

Combination Hollow Anchor bolt



由中空锚杆杆体、钢筋、连接套、垫板、螺母、止浆塞、锚头、排气管等组成。
Consists of Anchor body (Tendon), Rebar, coupling, Anchor Plate, Nut, grouting plug, Anchor Head, vent tube.

组合中空锚杆 产品规格 Combined Hollow Anchor	钢筋 Rebar Parts					
	牌号 Grade	屈服强度 Tensile Strength	极限强度 Max Strength	屈服力(KN) Yield Load	最大力(KN) Ultimate	延伸率 Elongation
				不小于 (≥)		
φ20	HRB335	335	455	105	142	17%
φ22	HRB400	400	540	126	170	16%
	HRB335	335	455	127	172	17%
φ25	HRB335	335	455	164	223	17%

公称直径 Nominal Dia	中空锚杆体部分 Hollow Anchor Tendon Parts						标准长度 fixed size
	公称壁厚 Nominal Wall thickness	屈服强度 Tensile Strength(MPa)	极限强度 Max Strength	屈服力(KN) Yield Load	最大力(KN) Ultimate	延伸率 Elongation	25、3、 35、4、45m
				不小于 (≥)			
30	4	325	490	106	160	21%	
30	5			127	192	21%	
32	6			159	240	21%	

组合中空锚杆 产品规格 Spec	钢筋 Rebar Parts						中空锚杆体部分(Q345) Hollow Anchor Tendon Parts					
	公称直径 Nominal Dia	牌号 Grade	截面积 Cross Section mm ²	重量 Weight / per meter		公称直径 mm Nominal Diameter	公称壁厚 mm Nominal Wall Thickness	截面积 Cross Section mm ²	重量 Weight / per meter			
				公称质量 Nominal Weight	公差 Tol				公称质量 kg/m	公差 Tol		
φ20	HRB335	335	314.2	2.47	±5%	30	4	326.7	2.56	±4%		
φ22	HRB400	400	314.2	2.47	±5%	30	5	392.7	3.08			
	HRB335	335	380.1	2.98	±4%	32	6	490.1	3.85			
φ25	HRB335	335	490.9	3.85	±4%	32	6	490.1	3.85			

垫片规格 Spec	边长Length	边长Length	厚度Thickness
150x150x6	150	150	6
150x150x8	150	150	8
200x200x10	150	150	10
200x200x12	150	150	12

以上参数和原料选择均符合TB/T3209-2008的常规要求。

The above Mechanical property, Parameters and Material Grade all meet the Standard of TB/T3209-2008.

国外市场 锚杆常用尺寸参照表

Mechanical property sheet for export

常规品种 Regular Type for oversea market

Anchor Rods	Outer Diameter 外径mm	Internal Diameter 内径mm	Wall Thickness 壁厚mm	Ultimate tensile load 极限拉力kN	Yield load 屈服力kN	Weight per m 重量/米 kg/m
R25N	25	14	5.5	200	150	2.3
R32L	32	21.5	5.25	210	160	2.8
R32N	32	19	6.5	280	230	3.4
R32S	32	16	8	360	280	4.1
R38	38	17 / 19 / 22	10.5 / 9.5 / 8	550 / 500 / 420	450 / 400 / 350	6.3 / 5.9 / 5.2
R51	51	29 / 33 / 35	11 / 9 / 8	800 / 660 / 550	640 / 540 / 450	9 / 7.7 / 7
T76N	76	51	12.5	1600	1200	15
T76S	76	45	15.5	1900	1500	19.7
T103N	103	78	12.5	2282	1800	27.3
T103S	103	51	26	3460	2750	42
T30/11	30	11	9.5	320	260	3.1
T30/14	30	14	8	260	220	2.8
T30/16	30	15	7.5	220	180	2.7
T40/16	40	16	12	660	525	7
T40/20	40	22	9	539	430	5.6
T52/26	52	26	13	929	730	10
T73/53	73	53	10	1630	970	12.3
T73/56	73	56	8.5	1414	785	11
T73/45	73	45	14	1630	1180	17.8
T130/60	130	60	35	7940	5250	75

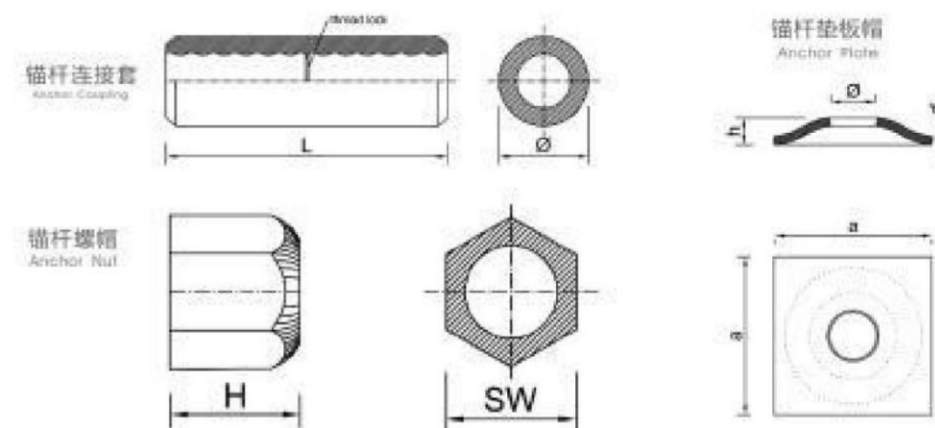
锚杆体螺纹符合ISO10208标准

Thread Standard according to ISO10208



自钻式锚杆及配件统

Series for self drilling rock bolt with its accessories



	Unit	R25N	R32L	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Anchor Rods 杆体										
Outer Diameter	mm	25	32	32	32	38	51	51	76	76
Internal Diameter	mm	14	21.5	19	16	19	36	33	51	45
Ultimate tensile load	kN	200	210	280	360	500	550	800	1600	1900
Yield load	kN	150	160	230	280	400	450	630	1200	1500
Weight per m	kg	2.3	2.8-2.9	3.2	3.6	5.5	6.5	8	16	19.7

Extension Couplings 连接套										
Diameter	mm	35	42	42	42	52	63	63	95	95
Length	mm	120	145	145	160/190	180	180	200	200	200
Weight	kg	0.45	0.8	0.7	0.75	1.4	1.7	1.9	6.4	6.4

Muttern Nuts 螺母										
Key size	mm	41	46	46	46	50	75	75	100	100
Length	mm	35	45	45	45	55	70	70	80	80
Weight	kg	0.25	0.4	0.4	0.4	0.5	1.55	1.55	3.6	3.6

Anchor Plates 垫片										
Dimensions	mm	150x150	150x150	200x200	200x200	200x200	200x200	250x250	250x250	250x250
Thickness	mm	8	8	10	12	12	30	40	40	40
Hole Diameter	mm	30	35	35	35	41	60	60	80	80
Weight	kg	1.4	1.4	3	3.7	3.6	8.8	18.5	18	18

常用锚杆配件

Assembly of Self-Drilling Anchor (SDA)

锚头

Anchor head



锚头由橡塑材料制成，安装在锚杆体顶端，用于固定或居中锚杆体的部件。

Plastic rubber material made. It connected with one side of anchor rod and buried together into the ground for the purpose of fixing and mediating the anchor rod.

锚杆螺帽

Anchor Nut



采用半球或六角螺母，可通过螺母对杆体施加主动应力

Using hemisphere or hex nuts, it can put the stress to the rod through the nut.

锚杆垫板

Anchor Plate



热轧成型，有一定弹性。便于应力传递。垫板提供可调角度，便于密贴岩石表面。

A hot-rolling plate. Given its flexibility, it helps the stress transfer. The plate with its adjustable angle fit with the rock surface tightly.

连接套

Anchor Coupling



钢制机加工连接套，内部中间有台阶。用于锚杆之间的连接，便于增减长度。

It is a Mechanical made steel case with a step in the middle of its inside. It can combines anchors to adjust the length in case of different demands.

止浆塞

Anchor Nut



止浆塞由橡塑材料制成，由于注浆排气的关系，它起到密封作用。便于实现有压注浆。同时增加注浆材料的饱满度和密实度。还起到对中支架的作用。

Grouting stopper is made of rubber and plastic materials. It provides a sealing effect to prevent the exhaust when grouting. Let the pressure grouting feasible. It also increased the fullness and density of the grouting solution. The stopper also could be a Positioning support.

锚杆钻头

Drill Bit

钻头是自钻式锚杆的重要组成部分，用于向岩土中钻进

Bit is an important part of self drilling anchor, used for drilling to the ground.



特点

FEATURE

- 种类齐全：包含十字钻头，一字钻头，弧刃钻头，泥钻头。
- 应用于不同地质条件，满足不同客户需求。
- Variety range, include cross bit, word bit, arc edge drill, mud drill etc.

Applied to various geological conditions and meets different demands

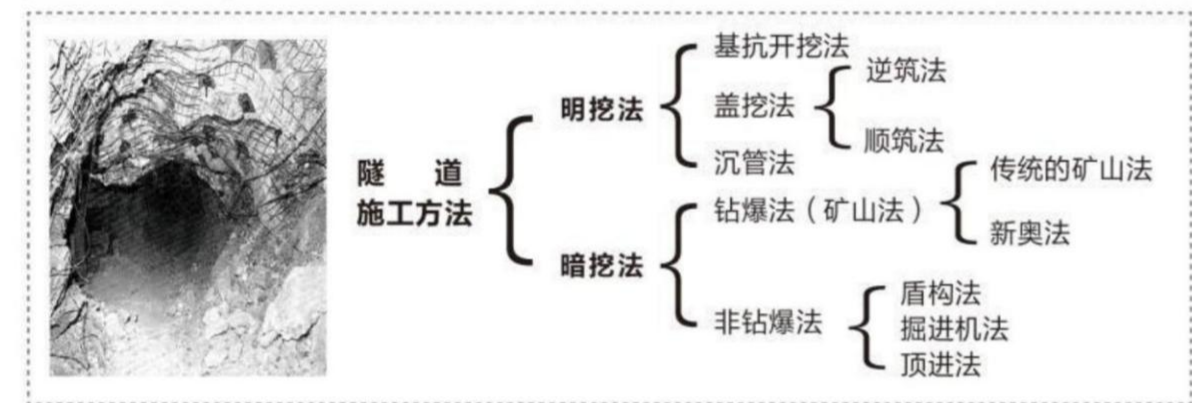
The Sacrificial drill bits is the most crucial part of the anchoring system and is responsible for the productivity of the installation. Wuxi Oriental Xinhong offers a large range of drill bits to suit the changing geology encountered during projects in order to improve on performance and cost efficiency, data is collected from projects around world and incorporated into the design with the goal to improve penetration rate and bit quality and to reduce manufacturing and application costs.

A successful installation of the Self drilling anchor(SDA) system depends on the selection of the most suitable drill bit. Compared to conventional drill bit types offered globally for maximum standing performance for rock or soil the criteria for SDA drill bits are defined by consideration of the following factors: High Quality for a limited service life 、Installed SDA length、Geology 、Geometry.

Appendix

常用隧道施工方法
Regular Tunnel construction method

明挖法	open-cut method
暗挖法	sub-surface excavation
基坑开挖法	foundation Excavate method
盖挖法	cover-excavation method
沉管法	immersed tube method
逆筑法	Inverted construction
顺筑法	bottom-up method
钻爆法	drilling and blasting (mining method)
非钻爆法	Non drilling and blasting
传统矿山法	Traditional mining method
新奥法	new austrian tunneling method (NATM)
盾构法	shield method
掘进法	drivage method
顶进法	jacking method



新奥法简介
Profile of NATM

New Austrian Tunneling Method (NATM) is the most used in the world so far.

The principle of the NATM is a temporary (flexible) distribution of the rock pressure around the tunnel excavation until stabilized by the final concrete tunnel lining.

Based on convergence monitoring, the thickness of shotcrete and the spacing between the bolts is determined in such a way that an increase of convergences is reduced.

Characteristics for the NATM are: an immediate sealing of the tunnel surface after excavation by support through shotcrete against further tension relief as well as bolting the soil layers with anchors to create a shear resistant bearing ring for the rock.

新奥法是目前为止隧道工程上使用的最多施工方法。

其原理是：开挖后隧道的岩层周围会分布一些临时的承载力。然后用混凝土对隧道进行衬砌直到它稳固。

收敛观测法，检测混凝土收缩量的增加，可以决定喷射的混凝土厚度和锚杆间距。

新奥法的特色是：在隧道开挖支护后，立刻将隧道外层表面密封（衬砌）。然后，通过喷射混凝土来预防土层的张力释放（出现裂缝），并围绕岩层的上方用锚杆去锚固，从而形成一个抗剪力的承载环。

钻头及应用
Drill bit and Application

Drill bit 钻头								
配套杆体	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
直径 Diameter	42、51	42/51/76 90/100/110 115/130	51/76/90 100/110 115/130	51/76/90 100/110 115/130	51/76/90/100 110/115/130 150/160/180/200	130/150 160/180 200	130/150 160/180 200	130/150 160/180 200
钢质十字钻头 (EX) Hardened Cross Bit	硬质十字钻头，用于疏松到中等硬度条件下的岩石中 Hardened cross bit for loose to medium dense conditions with small boulders							
合金十字钻头 (EXX) Tungsten Carbon Cross Bit	合金十字钻头，用于松软到中等硬度岩层中 TC cross bit for soft to medium rock formations							
钢质球齿钻头 (ES) Hardened Button Bit	硬质合金钻头，用于松散的岩石 Hardened button bit for unconsolidated rock with boulders							
合金球齿钻头 (ESS) Tungsten Carbon Button Bit	合金球齿钻头，用于中等硬度岩层 Button bit with TC inserts for medium rock formations							
钢质一字钻头 (EC) Hardened Arch Bit	硬质结构的钢钻头，用于疏松的岩层中。 Hardened drill bit with optimized geometry for unconsolidated soil with small boulders							
合金一字钻头 (ECC) Tungsten Carbon Arch Bit	合金结构钢钻头，用于松软到中等岩层中 TC drill bit with optimized geometry for soft to medium rock formations							
钢质旋转钻头 (EY) Hardened Drop Centre Bit	钢质旋转钻头，用于疏松到中等密实的土层中。 Hardened drop centre bit for loose to medium dense ground conditions							
合金旋转钻头 (EYY) TC Drop Centre Bit	合金旋转钻头，用于松软到中等岩层中 TC drop center bit for soft to medium rock formations							
铸造打土钻头 (EW) Casting Clay Bit	铸造打土钻头，用于非常松软到松软的土层中。 Casting clay bit with optimized geometry for very soft to soft clay							



生产工艺流程图

Manufacturing Procedure



THE
COMPANY
FACTORY

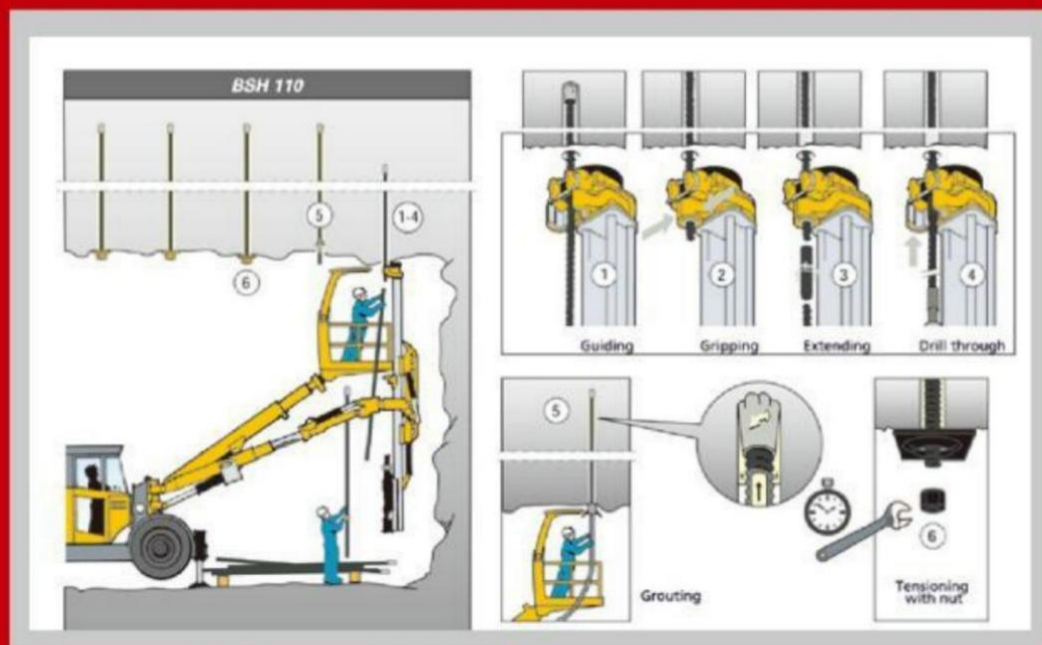


HOW DOES IT WORK (GENERAL PROCEDURE)

Drilling a hole in collapsing soil or loose rock, with a sacrificial drill bit and a hollow rod, and after the drilling operation, injecting cementitious grout or resin into the hollow rod and surrounding cavity.



将一个套上松土钻头的中空钻杆在崩塌的泥土或疏松的岩石中钻孔。在钻井作业后向中空杆体内以及周围空洞处注入粘性水泥浆或树脂基。



合作单位 THE COOPERATION UNIT



浙江省交通工程建设集团
Zhejiang Transportation Engineering Construction Group



中国交通建设
CHINA COMMUNICATIONS CONSTRUCTION



中国中铁



中国铁建



中国建筑工程总公司
CHINA STATE CONSTRUCTION ENGRG. CORP.

中铁港航局



陕建集团
SHANJIAN GROUP



浙江路建
ZHEJIANG ROAD & BRIDGE CONSTRUCTION



第五建工
Guangdong Fifth Constructional Engineering

重要工程项目

MILE STONE

无锡惠山隧道



无锡惠山隧道是无锡市快速内环的一部分，南起青山东路，北至惠钱路。无锡市第一条穿越山体的快速通道。左洞全长1576米，右洞全长1555米，整个隧道为双洞分离，每洞单向三车道。惠山隧道、凤翔路、江海路、青祁桥和快速化改造后的金城路围合成了封闭的快速内环，将与地面交通相对分离，全线基本不设红绿灯，是一条城市中的免费“高速公路”。

In year 2007 Wuxi Hui Shan Tunnel was completed. Total Length: 1576m Left and 1555m Right.

关角隧道

关角隧道位于青藏铁路西（宁）格（尔木）段的青海省乌兰县、天峻县内。关角隧道属世界高海拔最长隧道，是国内第一长隧。隧道结构为两条分离式单线隧道组成，全长32.46双公里。关角隧道地质之复杂，隧道施工中必须经过地质断层和二郎洞断层束素有隧道建设史上的地质博物馆之称。它的建成将证明我国迈入世界高海拔特长大隧道行列国家之一。



Qinghai- Tibet railway GuanJiao Tunnel begin to construction on On November 6 2007. Total Length is 32km.It is both highest and longest tunnel in the world. With its complex geologic, Guan Jiao Tunnel is known as a geological museum during the history of Tunnel construction.

吉图珲铁路



吉图珲铁路客专全长359.75公里，全线共设9个车站，设计时速为250公里，总投资416亿元，与长吉城际铁路共同构成长珲快速客运通道，从长春到珲春的时间将缩短至2.5小时。

Ji Tu Hui Railway: total length of 359.75 km with 9 stations .The projected speed is 250km/h and total investment reached 41.6 billion RMB , with Changji Intercity Railway constitute the Changhui fast passenger channel ,shortening 2.5 hours from Changchun City to Huichun City.

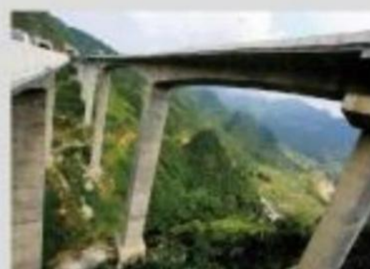
宝塔山隧道



宝塔山隧道，是山西省平榆高速公路第三特长隧道。全长10.2公里。项目位于林深岩坚的太行山腹地，穿过多处断层破碎带，围岩多为IV级、V级，地下水较多。隧道独头掘进长达2711米，斜井坡度平均达14%，安全风险大，技术难点多，为关键性工程。

Bao Ta Shan Tunnel is the 3rd longest tunnel in Shanxi Province. Total length:10.2km.

广乐高速



广乐高速主线全长约270.8公里，另外还有连接线约31.8公里，合计总长302.6公里，跨韶关、清远、广州三市。其中韶关境内长161.9公里，清远境内长119公里，广州花都境内长21.7公里。[1] 全线为双向6车道，路基路面宽达34.5米，设计时速为120公里，是广东省在“十一五”跨“十二五”期间规划实施的重点项目之一，也是广东省新十项工程和高速公路“六纵”的重要组成部分。

Guang Le high way is one of the most critical project of the 11th Five-Year Plan in Guang Dong province. Total Length is 302.6km.It connected 3 cities of Guang Dong Province.

银瓶山隧道



银瓶山隧道在博深高速深圳至博罗40公里左右的位置，隧道全长6940米，双向6车道，限速100KM/小时。该隧道由中国中铁隧道集团有限公司承建，且该工程被评为2012-2013年度中国建设工程鲁班奖。

YinPing Mountain Tunnel was built on 2012. CTG company was in charge of this project. Total length 6940m with 6 lanes two-way traffic. Because of the innovative design, this tunnel awarded the Ru-Ban Prize by year 2012-2013.

客户见证

FEED BACK

无锡东方欣宏的锚杆品质好，一手货源 Fancy Anchor, First-hand

我们冲着无锡东方欣宏环保科技有限公司是中空注浆锚杆的生产企业，一级的材料这个品质保证和他们试着合作，这4年其实前期是经历了一段磨合期，大多都是标准的细化问题，因为我们公司要求十分十分高，后来把我们的要求细化后，合作起来就很顺利了。

Wuxi Oriental Xinhong Environmental Protection Technology Co., Ltd with its high quality guarantee in its production attracted us to establish a partnership with them. Our company was famous for harsh requirements, so in the past 4 years, we experienced an adaption period. Most of all was the standard refinement. But finally we see eye to eye on this point.

上海吕盛贸易有限公司 潘经理
Shanghai Lvsheng Trading Co.,Ltd Mr Pan MANAGER

无锡东方欣宏散单能做且加工快、物流快，效率高 Bulk order is acceptable, efficiency production, reliable logistics

在和无锡东方欣宏合作之前我们曾经有4家大型的中空注浆锚杆供应商，但我们力求有个供应商在个复杂单、散单、急单、小单、特殊单给更好的配合，因为他们能够在合同里保证交货期我们才能顺利的完成了，再再后来我们也慢慢把一些大单转移给他们了。

We used to have 4 huge regular suppliers before we choose Xinhong as our core partner. Actually, we want to find a factory who can deal with different orders under different situations in time, like overcome complicated order, bulk order, urgent order and tiny order as well as other specials, while Xinhong did exactly that. From that day forward we start to put our crucial orders to them gradually.

大连驰放集团有限公司 王经理
Dalian Chiao Group Co.,Ltd Mr Wang MANAGER

与无锡东方欣宏合作期间，都非常顺畅和愉快 Pursue mutual benefit with both sides

在和无锡东方欣宏合作之后，对于我部在41省道永嘉福佑至沙头段公路工程项目工程中，使用贵厂生产的中空注浆锚杆总计30万米，多次供货的锚杆质量达标，售后服务都及时到位，确保了我部工程的顺利进行。

In S41 provincial Rd project, from the segments of Yongjia county fu you village to Sha tou village. We totally spent 300 thousand meters hollow grouting anchor which was mainly offered by Wuxi Oriental Xinhong Environmental Protection Technology Co., Ltd And these anchors passed every test. And Xinhong Ltd offered us an excellent after-service to make sure the project going smoothly.

中交二航局 刘部长
China Communications 2nd Navigational Bureau 2nd Engineering Co., Ltd.(CSNEC) Mr Liu MINISTER

无锡东方欣宏的售后服务做得很到位 Perfect After-Service

从2008年开始在无锡东方欣宏采购锚杆，从那以后每次工程有用到中空注浆锚杆的，我都会直接找到无锡东方欣宏，因为他们一直以来都对我们有定期的回访，售后服务更是没的说，有什么问题及时帮我们解决，不过基本上都没问题。

The first time we worked with Xinhong was in 2008. Since then, we always ask this partner to offer us anchor bolt once the project needs. Their after-service staff makes satisfaction call frequently. And they help us to solve problem promptly but basically their products are ok.

中铁隧道一处有限公司 叶处长
China Railway Tunnel Group Mr Ye DIRECTOR

价格实惠，比市面上中空注浆锚杆质量要好 Cost-effective

经朋友介绍在无锡东方欣宏试样采购了一小批锚杆，检测后锚杆的重量、壁厚、屈服和拉力等重要参数都达标，而且在施工过程中工人都说用的不错，质量过硬，很符合我们的心里预期。

Some of our friends recommend Xinhong Ltd to us. Then we attempt to place a trial order and test its quality. Certainly the parameters like Weight, Wall Thickness, Yield load and Tensile strength all passed our request and got our builders' compliment. That meets our expectation.

浙江宇浩新材料有限公司 章经理
Zhejiang Yuhao New Material Co.,Ltd Mr Zhang MANAGER

100万订单只需10个工作日 One million' s order only need 10days

这是我们第一次跟无锡东方欣宏环保科技有限公司合作，原本以为100万的订单，需要多找几个供应商合作，没想到无锡东方欣宏面对我们这种大批量定制生产，居然在10个工作日内全部交货。说实在的，之前还真不相信无锡东方欣宏的100万订单只需10个工作日的生产能力，这次合作让我看到了无锡东方欣宏是一个有实力的锚杆生产厂家。

This is the first time we work with Wuxi Oriental Xinhong Environmental Protection Technology Co., Ltd. I suppose this order would be completed by multiple vendors. But I was shocked that Xinhong only spent 10 days. In-fact, I can' t believe that they finished this order which valued over 1million RMB in such a short time. That' s amazing!

中交一公局第五工程有限公司 刘部长
CCCC FIRST HIGHWAY FIFTH ENGINEERING CO.,LTD Mr Liu MINISTER

无锡东方欣宏环保科技有限公司

/ 近期部分工程案例 /

- 1 浙江华通公司缙云早宅隧道
- 2 中铁十六局三公司缙云大庭庙隧道
- 3 中铁十局二公司龙浦三标
- 4 中铁三局二公司庆元连接线二标
- 5 浙江省交工建设集团龙庆三标
- 6 东盟公司龙庆五标
- 7 中铁隧道集团有限公司渝黔铁路土建工程6标
- 8 中铁十三局集团有限公司渤海大道一期隧道工程(普湾新区段)项目部
- 9 中铁隧道 青藏铁路复线关角隧道
- 10 中铁一处山西阳翼高速L21标隧道
- 11 中交一公局西宁南绕城公路4标
- 12 杭新景高速公路建德寿昌至开化白沙关(浙赣界)段第5标段
- 13 杭邵台三标项目部
- 14 杭州市第二水源输水工程
- 15 310省道舟山朱家尖段工程
- 16 中国水利水电第十三工程有限公司
- 17 中交一公局第五工程有限公司曼大公路NKSG6项目部
- 18 中交一公局第五工程有限公司国道569宁克段6标
- 19 江苏神龙海洋工程
- 20 资溪花山界(赣闽界)至里木高速公路项目
- 21 中交一公局西宁南绕城公路8标
- 22 中铁隧道集团一处有限公司吉图珲病害整治二项目经理部
- 23 丽水市水阁工地
- 24 浙江省交工温州绕城高速第5标
- 25 杭新景高速公路第7标段
- 26 42省道磐安县下葛至潘潭段改建工程第2标段
- 27 中铁隧道集团金台铁路将军岭隧道
- 28 杭州华水市政工程有限公司
- 29 丽水景宁县丽龙高速公路
- 30 杭州803粮库扩建工程项目
- 31 杭新景高速十八标段池淮大桥
- 32 从莞高速公路东莞段(含清溪支线)工程第11合同段
- 33 寻全高速公路项目C3标松虎坑3号隧道
- 34 浙江交工路桥建设有限公司杭长04标
- 35 浙江省杭长高速第二标段
- 36 杭新景高速公路建德寿昌至开化白沙关(浙赣界)段第13标段
- 37 浙江省交工温州绕城高速第4标
- 38 浙江义乌至东阳37省道改建工程
- 39 浙江省温州市瓯海区桐岭村一号隧道
- 40 中铁十五局集团有限公司广深港客运专线ZH-4标
- 41 中交一公局二公司甬台温复线1标
- 42 千岛湖施家坪村麻园隧道
- 43 仙居县孟溪水库工程
- 44 杭新景高速公路建德寿昌至开化白沙关(浙赣界)段第12标段
- 45 中铁十三局集团三公司南昌象湖隧道项目
- 46 浙江正和子园湾隧道
- 47 中铁四处石吉高速牛婆尖隧道
- 48 中铁十七局石吉高速B5标南面山隧道
- 49 中铁一处大广南通山九宫山下田村隧道
- 50 中铁二局京沪高铁南京栖霞山隧道
- 51 中铁二局吉林、集安中朝一级公路福安隧道
- 52 中铁一处平榆高速宝塔山隧道
- 53 中铁一处昆明市三环岗头山隧道
- 54 杭新景高速21标
- 55 中交一公局西宁南绕城公路9标
- 56 中铁隧道集团有限公司乐昌至广州高速12标
- 57 中隧一处甬永高速A6标
- 58 中铁隧道集团阳泉西环高速公路LJ3标
- 59 中铁隧道集团吉图铁路安图段6-12标
- 60 中铁隧道共玉公路B7标
- 61 中铁四局青岛地铁项目部
- 62 中铁十八局深圳旅客地道施工项目部
- 63 杭新景高速9标
- 64 中铁十四局A4标宁夏青兰高速六盘山隧道
- 65 中铁四局金温扩能改建1标第三第四分部
- 66 中铁三局南京地铁宁高城轨南禄段DJ-TA03标
- 67 中铁一处广东高速29标项目部
- 68 中铁十局山西中通道2NTJ-2标
- 69 中交一公局西宁南绕城公路7标
- 70 山西西环高速三标槽树岩隧道
- 71 中铁七局五卒山隧道进口段
- 72 杭新景高速15标
- 73 中铁隧道集团博深高速银瓶山隧道(此工程获得国家鲁班奖)
- 74 中隧一处广州至乐昌段T8标项目部
- 75 中铁九桥工程无锡山水路隧道
- 76 中铁四局金寨猴子岭隧道
- 77 中交二公局第三工程41省道永嘉富佑至沙头
- 78 中隧一处广州至乐昌段T10标项目部
- 79 中交一公局西宁南绕城公路6标
- 80 宁交集团309省道钱江拔线工程
- 81 杭新景高速15标
- 82 中铁隧道集团港江国储11标段项目经理部
- 83 中铁港航局集团有限公司舟山国家石油储备基地扩建项目
- 84 三浙高速xstj-2标
- 85 中交一公局西宁南绕城公路5标
- 86 中交一公局西宁南绕城公路5标
- 87 青田县城市组团交通枢纽III标段控制性工程东堡山隧道
- 88 杭州光华路桥湖边隧道
- 89 中铁三局集团第二工程温州绕城高速西南线第一标段项目
- 90 陕西建工机械施工集团有限公司乐成至乐清火车站公路工程1标项目