



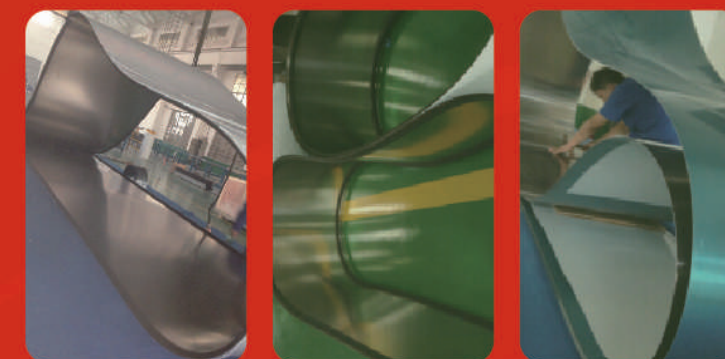
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传动钢带领导者
The Leader of conveyor steel belts



**Steel belts for a wide range
of processing systems**





志存高远 责任为先
AMBITIOUS RESPONSIBILITY FIRST

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公司简介

罗特（NAUT）钢带成立于二〇〇五年,公司地处上海市金山工业园区,NAUT是一家从事钢带及钢带式传动系统的研发、生产、销售、售后服务为一体的制造型企业。时至今日,我们所提供的产品及服务,已遍及大中华地区、东南亚、中东及美洲市场。

钢带作为一种新型金属带用途,与其它传统传动带相比,更具有它自身的优越性,无所不能的工作环境更能突显它的一些优势(如耐磨损、耐腐蚀、耐高温、使用寿命长、不易变形),NAUT能提供如下系列钢种:

- ★高强度奥氏体不锈钢
- ★PH级马氏体不锈钢
- ★高强度碳钢
- ★其它合金钢

NAUT始终基于钢带为核心业务,为各式输送系统、连续冷却固化成型装置、连续压机系统、连续烘烤炉、连续流膜及其它装置,提供全面的技术指导和新方案的分析。罗特源于日本和欧洲的技术、合作、分段式加工、供货等模式,及境内拥有一支较大的专业性服务团队,是您在品质、合作层面上的最可信赖搭档。

认证Certificates

NAUT始终遵循ISO9001和ISO14001管理体系,将继续秉持"改进,提升,持续"理念,不断提升产品质量、满足国内外客户需求,使罗特钢带在行业内继续保持领先地位。



NAUT BELTS
罗特钢带

COMPANY INTRODUCTION



Naut was founded in 2005, Located in JinShan industry zone, ShangHai,China. Naut Brand is one of the world's leading manufacturers of high-quality transport and process belts for the special goods industry. Our businesses include manufacturing, research and development, sales and after-sales-service of steel belts and steel belt conveyors. Today, Our products and service has covered China, Asia, Middle East and Europe markets.

As a new type of transporting belt, Steel belt is excellent performance and Omnipotent working environment compared with other traditional conveyor belt(such as wear resistant, anti-corrosion, heat-resistant, long life and not easy to deformation),we can provide almost all kinds of metal belts, Such as below:

- ★High strength austenitic stainless steel
- ★P-H stainless steel
- ★High strength carbon steel
- ★Other alloy steel

Steel belts are our main business, Naut can provide a comprehensive technical guidance and products for all kinds of conveyor system, For example, Cooling & solidification system, Continuous presses system, Baking oven, Deep-freezing system, Film equipments and so on. The part of technologies Originated from Japan & Europe. And our skills & experience is unique., Continuous improvements and innovative manufacturing methods make it possible to adapt belt characteristics to customers' specific requirements. Whatever, When you want to find some technologies consulting or one cooperation opportunity, We believe that Naut is your reliable partner. Professional service teams waiting for every clients from everywhere.

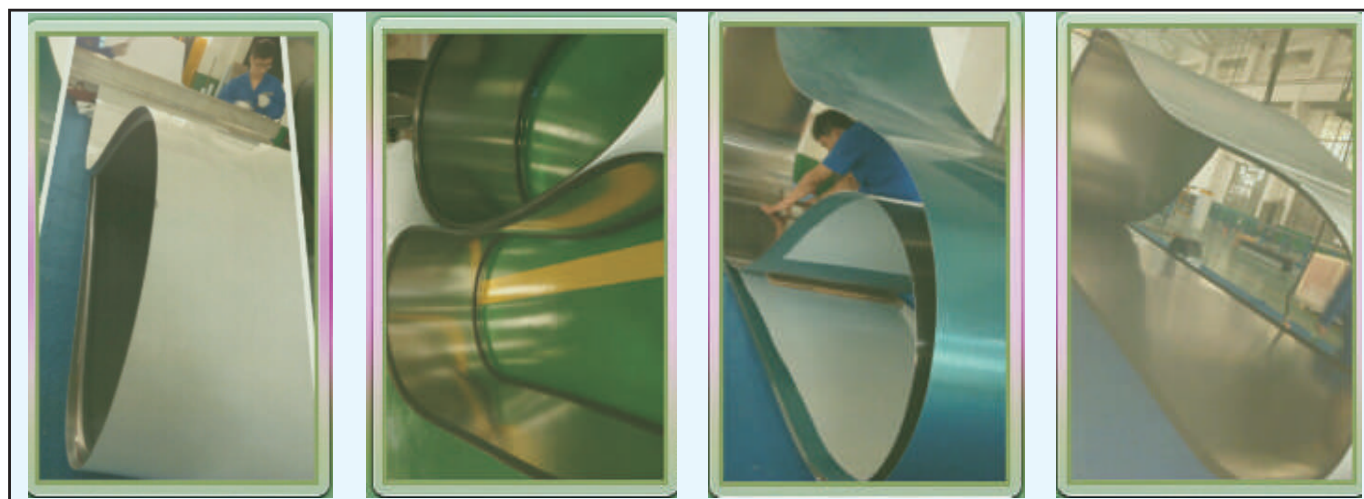


一、化学品工业专用钢带 Steel belt for chemical processing systems

通过大量的实践证明，罗特钢带无疑是化工行业最理想的钢带，NAUT BELTS在造粒机、冷却结片系统等方面都得到了良好的验证，无论在实际温度180度左右还是350度的冷却固化成型过程中,NAUT BELTS始终保持其钢带的平坦度、高寿命等特性，这也不仅提高了生产效率、降低了更换频率，同时也降低了生产成本。

钢带作为整套凝固固化系统中最重要的组件，它的产品直接关系到整个生产成本和产品质，人们普遍认为，选择优秀的合作伙伴和优质的钢带的至关重要。

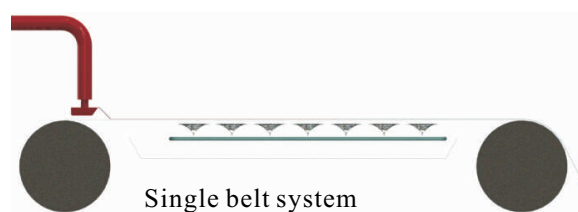
Naut offers many kinds of stainless steel belt to suit the requirements of different products and variable working condition, The ideal material (Such as the hard ,durable smooth surface etc)makes it conveying medium for cooling and solidifying chemical products is the best choice in chemical industry. As we all know Steel belt is very important parts in cooling systems, It directly affects the product quality, using life, change frequently etc. And so, Choose a excellent belt is very useful to users. Whatever .Naut has more experience and ability to solve to any needs.



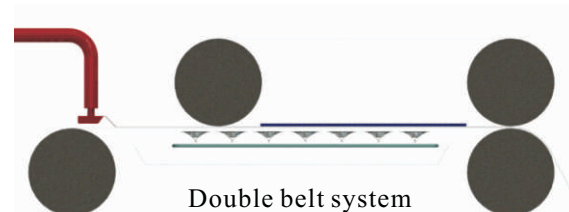
NAUT钢带典型应用于冷却固化成型系统包括：

Naut steel belt application for cooling and solidification systems

- 单钢带结片机 Flaking
- 单钢带造粒机 Granulation system
- 双钢带结片机 Double belt g system
- 单钢带造条机 Strip solidification system



Single belt system



Double belt system

常用钢带型号

Grades of steel belt

◆NAUT-ASS1200

高强度奥氏体不锈钢带，为化工行业通用。

◆NAUT-ASS1000

高强度奥氏体不锈钢带（耐腐蚀级），典型用途：氯乙酸冷却固化。



罗特钢带特征

- ◇极佳的平坦度
- ◇极佳的直线度
- ◇耐腐蚀级别高
- ◇高温不易变形拉伸
- ◇优秀的机械强度
- ◇完美的焊接品质
- ◇牢固的V型胶条粘接
- ◇产品应用广泛（如颗粒、片状、条状等）
- ◇均匀冷热效果

Advantages at a glance :

- ◇Good flatness
- ◇Good straightness
- ◇Economical operation with low maintenance costs
- ◇High strength
- ◇Corrosion resistance
- ◇Non-polluting
- ◇Versatility-product strips, strip granulate, flakes, plates, sheets, etc

NAUT钢带典型应用的产品如下：

Typical application for final products

〉硫磺〉环氧树脂〉石蜡

◇Sulphur

◇Resins

〉聚酯〉松香树脂〉橡胶助剂。。。。。

◇Waxes



NAUT更多的应用现场：

More projects at site

罗特钢带已遍及大中华地区，并分别向越南、以色列、俄罗斯、孟加拉等国，提供了罗特的钢带及服务。Today, Our products and service has covered worldwide.



二、超精细抛光镜面钢带

Supper-mirror-polished steel belts for sheet and film production

Surface choice according to specific needs

Naut can provide surface grades specific to customer requirements, such as Surface roughness film ,release properties. work environment,etc,Naut polished steel belts are extremely flat ,smooth and high surface cleanliness.

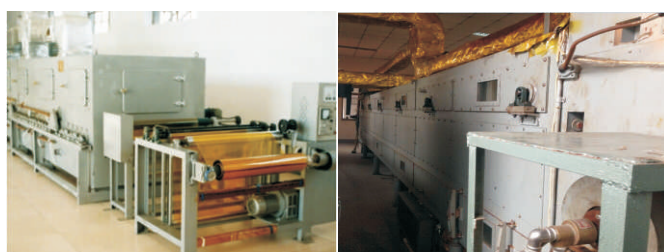
罗特提供的高精度镜面钢带是国内外少有的高品质钢带，依据用户的不同要求，我们可以考虑的因素包含：钢带在使用过程中的化学性能适应性；表面粗糙精度对薄膜成型、脱膜效果的有效控制；钢带机械强度与张力测算等方面。大量应用案例可以证明罗特钢带如下特点：

- ★高抗拉伸强度
- ★表面精度高
- ★无划痕、针眼及其它不良现象
- ★高平坦度
- ★无色差现象
- ★厚薄精度高（含无缝焊接区域处理后的精度）

High-quality steel belts for high-quality products

Steel belt features

- ★ Good flatness
- ★ Excellent surface roughness
- ★ No needle-eye and scratch
- ★ Minimum thickness error
- ★ Prefect welding quality
- ★ Good repairability & reliability



Grades of steel belt 钢带型号	Standard thickness 标准钢带厚度 Unit :mm	Surface roughness 钢带表面级别 Unit: μm	Thickness variation of polished belts 研磨镜面钢带厚度变化
NAUT-ASS-1200	0.5,0.6,0.8,1.0,1.2,1.5	≤0.01 Ra	≤80 μm (except welding area)
		0.20-0.03 Ra	
		0.04-0.06 Ra	
		≥0.07 Ra	
NAUT-ASS-1000	0.8,1.0,1.2,1.5	≤0.01 Ra	≤50 μm (except welding area)
		0.20-0.03 Ra	
		0.04-0.06 Ra	
		≥0.07 Ra	

流涎法镜面钢带加工流程

Belt polishing processing

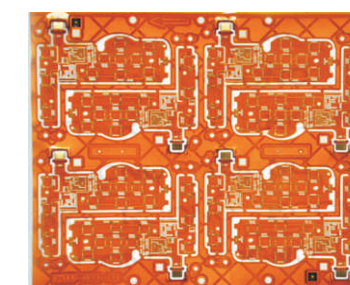
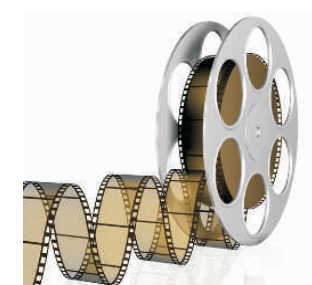
我们深知钢带作为循环模带使用，它将直接关系到用户产品的需求定位，只有严谨的操作流程和先进的加工工艺才能达到功能所需。我们关注的品质始终从源头的原料，到中间的加工过程，到包装，到运输，再到安装，都无不一一详尽管理。



典型应用

Typical applications

Filter membrane for medical filters. Optical films (e.g. polyimide、PP、PVC).Film substrate, Solar battery, etc 光学薄膜（PI、PP、PVC、PVA）及其它薄膜类、医用过滤膜、测孕薄膜等胶片胶卷、太阳能膜片、基片材料及其它纤维材料等。





三、V型胶条

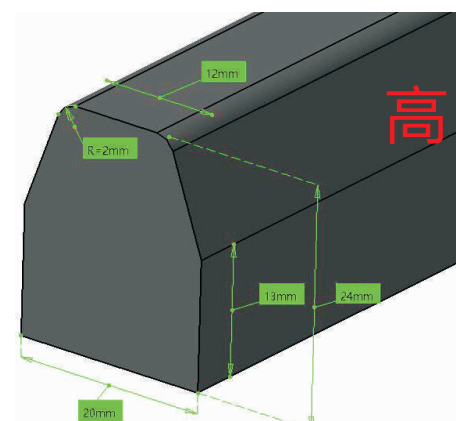
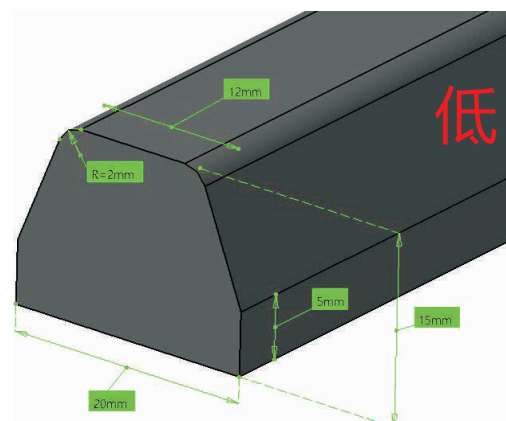
Vee-ropes for tracking and blocking

V型胶条作为卡位防偏和挡水用途，它的牢固性及耐磨性直接关系到钢带的使用寿命，一次胶条的脱落，或许就是一次致命性的钢带损坏和物料的渗水。由此得知，优秀的胶条和粘接技术是多么的重要。罗特钢带公司研发的V型定位胶带是选用优级胶种并经过一系列的特殊加工而成，具有橡胶条与金属的附着力强和耐磨性高的特点。

V-Ropes bonding on bottom of the steel belt in a V-shape, As purposes of straight tracking and blocking liquid is very important in the running or different applications, A special process developed by Naut guarantees perfect adhesion of vee-ropes. For cooling systems. The ropes are suit to riding on the outside edge of the drum or insert rope into the grooved drum guides the conveyor belt to keep it running true.

Ideal material of vee-ropes

- ★丁腈橡胶条:可适应的工作温度在-20 ~ +110℃
- ★天然橡胶条:可适应的工作温度在-60 ~ +70℃
- ★Nitrile rubber for operation temperatures from -20℃ up to +110℃
- ★Natural rubber for operating temperatures from -60℃ up to +70℃

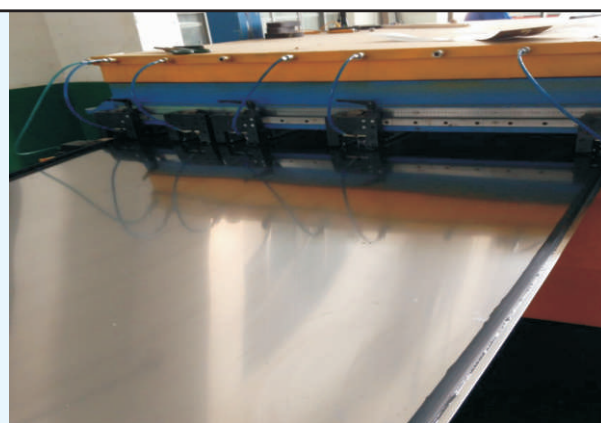


V-型胶条粘接装置

V-Ropes adhesion equipment:

罗特两米宽钢带自动硫化粘接生产线
如右图所示:

Over 2000mm wide of the bonding equipments at
Naut workshop



四、高强度连续压机类钢带

High strength steel belts for presses
BELT GRADE: MSS-1650

罗特高强度钢带是一种热处理后的马氏体不锈钢系，它是所有钢带型号中，机械强度和综合性能最优秀的钢带。常常被人们用作连续式平压、挤压、辊压结构系统中，高强度钢带的出现，改变了传统间歇式或分段式压机单一、固定的压制模式，为产品的多样性提供更为广阔的发展空间。

Naut belts MSS1650 is well-known high strength martensitic stainless steel, For over 10 years, Naut has been successfully using the MSS1650 for applications such as double and single belt presses. Various different finishes are possible, depending on the application and requirement:

> Standard dimension for Naut belts

Thickness: from 0.8mm to 2.0mm..

Width: 200mm to 5000mm.

Length: from 3000mm to customer needs

> Belt surface for different requirements

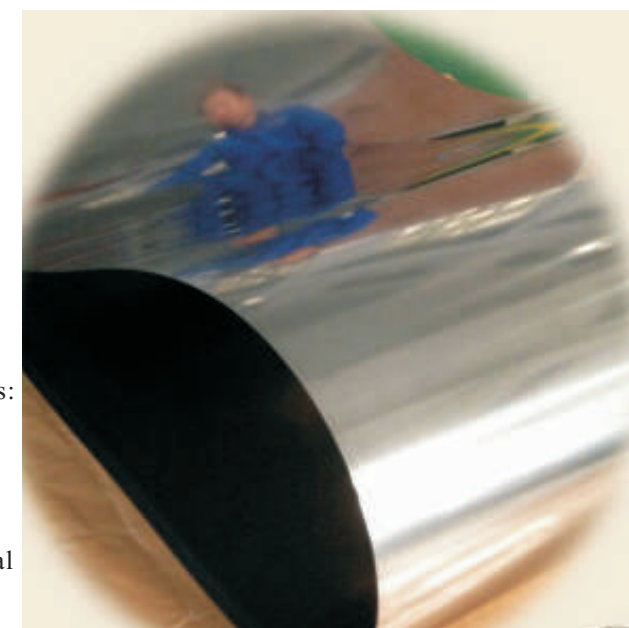
★ Mill finished (2B)

★ Super mirror

罗特高强度钢带最具代表的型号为MSS1650,

它是一种P-H级的不锈钢带，它几个突出特征表现在:

- | | |
|-----------------|---|
| ★ 表面坚硬、耐磨; | Belt MSS1650 characteristics: |
| ★ 机械强度非常高; | ★ Uniform thickness |
| ★ 表面平坦、厚薄均匀; | ★ Hard and wearable surface |
| ★ 不易变形拉伸; | ★ Repairability |
| ★ 具有可修复性; | ★ Easy to weld with TIG |
| ★ 焊接系数高，经特殊处理后， | ★ Good physical and chemical properties |
| 可达母体强度的90%以上; | ★ High tensile strength |



罗特钢带可适用的产品及设备

- ★ 鼓式硫化机类 ★ 木工人造板连续压机类: 1.刨花板 OSB 2.高密度纤维板HDF 3.中密度纤维板MDF
4.装饰性压层板(贴面板) ★ 复合材料压机类 ★ 人造石材压机类 ★ 建筑材料压机类 ★ 由多种材料组成复合板
★ 橡塑板 ★ 工业输送带 ★ 双层连续压机(双钢带) ★ 单层连续压机(单钢带) ★ 造纸 ★ 循环模具式钢带
★ 压光机(造纸行业) ★ 地板行业中的薄层板和耐磨层压板

Application for final products and types of presses system

- ★ Rubber and plastic transport belts ★ Wood-based panel(OSB,HDF,MDF) ★ Artificial marble
★ Various presses ★ Papers ★ Multilayer composite sheets ★ Double belt presses ★ Single belt presses
★ Rotocure presses



如需了解更多高强度钢带MSS1650性能及技术，请索要相关资料或是咨询我们的工程师!

Please contact us if you have any needs. we are pleased to realize your upcoming project together with you.

五、食品级钢带

Stainless steel belts for food processing systems

--BELT GRADE: ASS1200 & ASS1000--

不锈钢传送带是一种卫生级、食品级及耐腐蚀性能为一体的高强度奥氏体不锈钢系，其化学性能近似DIN标准1.4301和1.4408。随着人类对食品卫生要求越来越高，国家管控标准也是越来越严，不锈钢输送带优势与性能远优于传统输送带。凡食用类产品都可直接在钢带表面成型加工和传送，我们常见的应用行业有巧克力生产线、肉制品加工线、海鲜制品速冻生产线、果蔬类产品的脱水烘干等。

Technical information for different application and requirements

Excellent materials for different applications, Naut has been successfully using the two austenite ASS1200 and ASS1000 for food process and transport over many years. On the other hand, the steel belt qualities ASS1200 and ASS1000 both are not easy to rusting, They were utilized for cooling, steaming, drying, freezing industry etc.

Naut stainless steel belt applications for

- ★ Coolers
- ★ Freezers
- ★ Steamers
- ★ Dryers of fruit and vegetables
- ★ Conveying and transporting

钢带显著特性：

- ★在潮湿或一般类腐蚀环境中不易生锈
- ★表面清洁、不会产生卫生死角和残留
- ★不会产生塑化剂及有害物质
- ★使用寿命长
- ★可修复性强
- ★不易拉伸变形
- ★表面硬度高，可当工作台面
- ★回收价值高

可定制规格：

厚度Thickness: 0.2~1.5mm

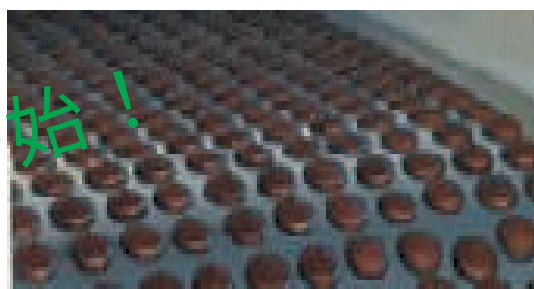
宽度Width: 50~3000mm

长度Length: 3000mm~client needs

关于钢带型号相关性能请参阅罗特网站中的“技术资料”栏，或是直接咨询罗特销售人员。



食品安全从罗特钢带开始！



六、连续烘烤炉钢带

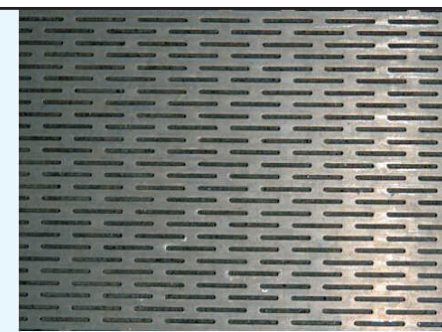
Carbon steel belts for continuous baking and food-process industry

--BELT GRADE: CS1300--

于烤炉级钢带用于烘烤产品（面包、饼干、蛋糕等）的生产，NAUT研发的平面标准钢带和开孔钢带无疑是最理想的传送部件，其优秀的品质让您在使用上无后顾之忧。同时，罗特也是国内外极少数能提供宽幅钢带的厂商。

Naut Brand's carbon steel belts are manufactured with a specific heat-treatment process to achieve the required tensile strength and surface finishes for the baking and food-process. Our bake oven belts easily handle the most extreme temperatures while being energy efficient. We provide standard and perforated belts for different application & requirements.

用于连续烤炉的钢带是经过特殊的热处理工艺而制成，满足钢带在高温下的传动、烘烤、及食用要求，其它明显特征如下：



- = 钢带表面平坦度高
- = 优良的抗疲劳强度
- = 绝佳导热性能和热交换率
- = 优良的耐磨性能
- = 具有可修复性
- = 优于金属网带
- = 使用寿命长
- = 安装简便
- = 具有一定的回收价值

Carbon steel belt features

- Suit to high temperature up to 600°C
- Hard & wear-resisting surface
- Long life
- Good heating exchange
- Health and safety reliability
- Energy efficient
- Precise tracking and belt straightness
- Reparability

可提供的规格More specification for various needs:

厚度Thickness (Unit: mm) 0.5/0.8/1.0/1.2/1.5

宽度Width (Unit: mm) 200/300/400/500/600/800/1000/1200/1500

注：其它特殊规格另咨询



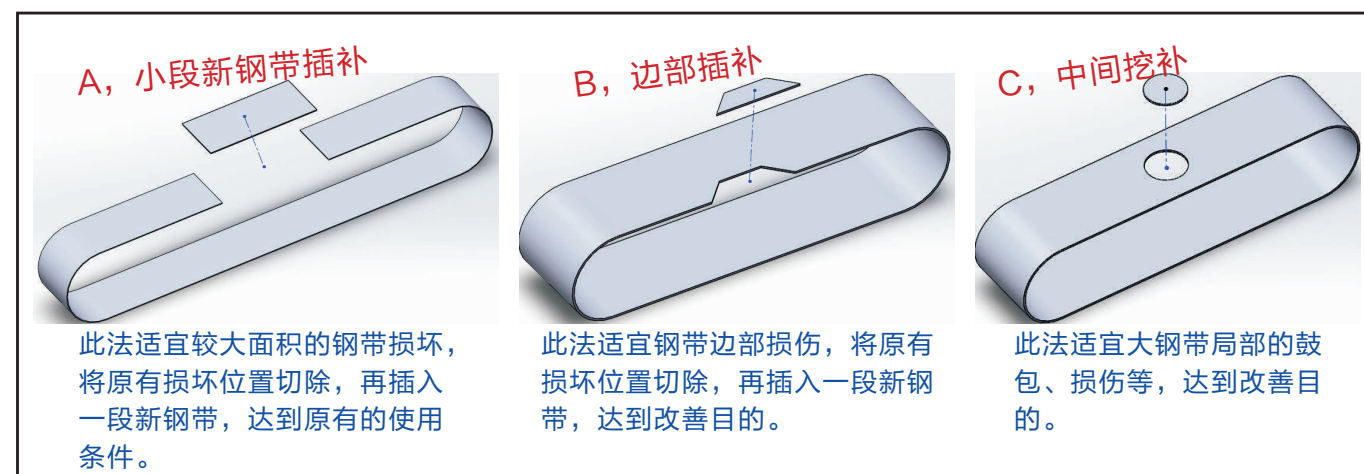
七、钢带维修中心

Repair service for steel belts

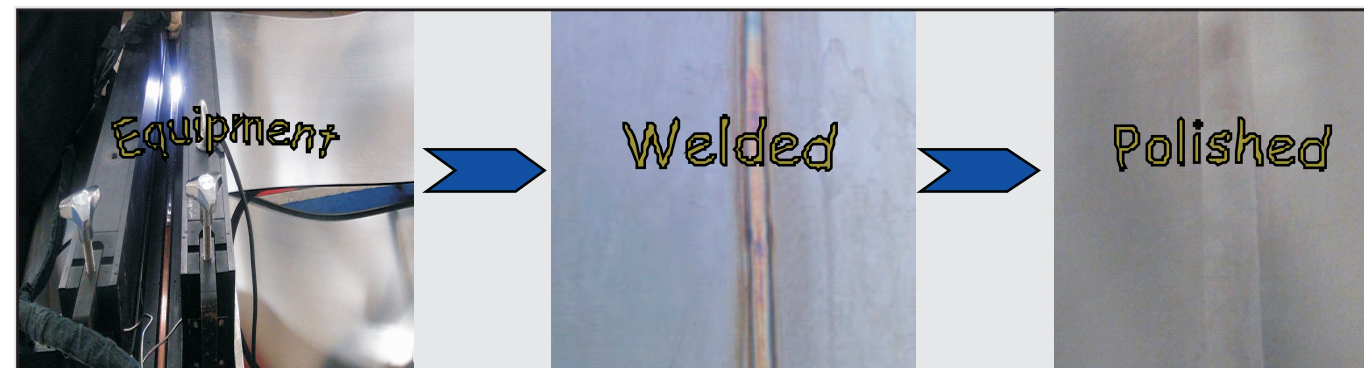
钢带在整套设备系统中，被人们视为最重要的部件和工业耗件，钢带在运行过程中难免会出现人为操作致损或是使用一定年限后出现的疲劳性损坏，经评价后的可修复性钢带，罗特有一套完整的修复方案，使您产品价值最大化。

Q:钢带局部损坏了?

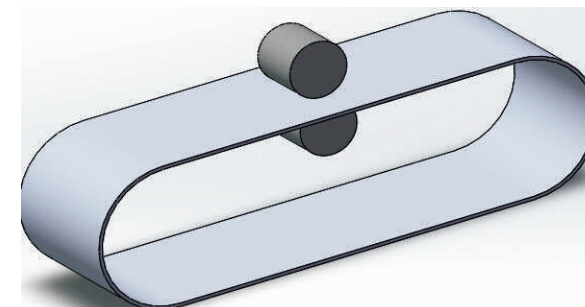
依据用户对钢带损坏的位置或工艺所需的评定，可以有如下三种方式得以修复或改善。



现场维修等级较多，有的是要求焊接牢固即可；有的则要较高的平坦度；有的还需表面精度，针对复杂多变需求，罗特可提供更多的现场修复方案。



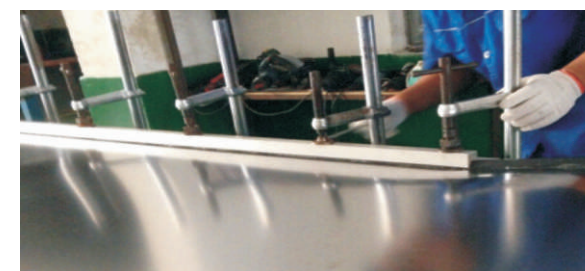
Q:钢带整体纵向变形了?



NAUT特殊的整平工装，可在用户现场直接整平，延长钢带使用寿命，并且可以节省不必要的更换费用。

所谓纵向整体变形是指：整条环形钢带的纵向处有一道较均匀的凸起变形，需要整形矫平处理，其矫平效果良好，达到改善平坦度目的。无规则的变形、鼓包现象不在此法整形之列。

Q:钢带上胶条脱落了?



钢带上的胶条脱落无疑会增加损伤钢带的机会，所以，钢带的维护和保养至关重要。

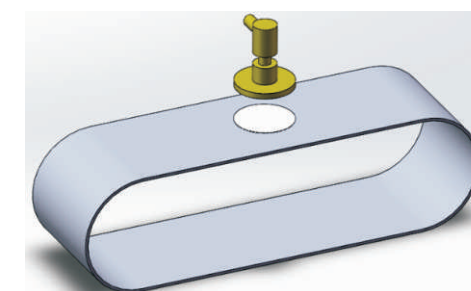
罗特现场特殊粘接胶条工艺，可使胶条快速的粘接在钢带表面，粘接上去的胶条非常牢固，不易脱落，同时，胶条不易磨损。

Q:旧钢带可以翻新吗?

出现如下情况的钢带是可以翻新的

- ★表面有附着物；
- ★达不到规定的工艺需求；
- ★表面有轻微划伤、划痕；

翻新工艺仅限于将旧钢带表面整体二次打磨、抛光、研磨处理。



Q:钢带可以裁窄吗?

在生产过程导致钢带两侧边部的小范围变形、撕裂、拉伸等现象，在不影响用户生产工艺的前提下，可适当的将原钢带裁窄，以免不必要的严重后果。





After service for steel belts

个性化服务团队:我们的服务不仅仅只是让客户满意,而是让客户感动。

NAUT在传动钢带行业已辗转十多个年头,积累了丰富的经验与技术能力,并有着属于罗特自己的一套完美售后服务方案,罗特不仅让你购买到最优质的产品,同时,也能让您享受到罗特的高效、专业和用心。

- ★具有一定的经验工程师才能在现场独立服务
- ★多部门联合式服务
- ★2小时内响应,24小时内到达需方现场
- ★先进的维修工具和装备
- ★详尽的服务方案
- ★训练有素的队伍



包年服务方案:

- ★如果您有一台或多台钢带式设备
- ★如果您想让设备运行更稳定或是钢带使用寿命更长
- ★如果您想拥有更专业的服务与品质
- ★如果您想更省心,没有后顾之忧
- ★如果您更想节约维修与保养成本
- ★如果.....

包年内容可以是:

- ★全新钢带的焊接与安装
- ★钢带插补焊接(不锈钢带/碳钢带等)
- ★粘接V型定位或防水胶条
- ★镜面钢带的修复
- ★钢带的表面处理(打磨/整形等)
- ★零部件更换

NAUT为您想得更多,不要忧虑,请加入罗特钢带的包年服务计划吧。

咨询&培训

）咨询Consulting

对于未曾使用过钢带的用户来说,前期的沟通和技术咨询变得尤为重要。因为不是任意的一种钢带都可满足用户工艺条件;不是随意的一条钢带就能满足传动要求。。。。。

您一份咨询,还您十分满意!

）培训Training

培训内容:

- ★钢带的操作与保养
- ★钢带维修
- ★设备的操作与维护
- ★新技术讲座。。。。。

培训对象:

- ★罗特用户
- ★具有一定的使用量(设备除外)



24 Hours

137-6135-3549





成品钢带检验
NAUT BELT CHECKLIST

生产批号:
产品型号:
产品规格:

感观检验 Surface check					
NO.1	表面划痕	无 ☐	轻微 ☐	严重 ☐	其它 ☐
NO.2	表面异物	无 ☐	轻微 ☐	严重 ☐	其它 ☐
NO.3	感观平整度	合格平整 ☐ 不合格有轻微波浪 ☐ 不合格波浪 ☐			
NO.4	焊接平整度	合格平整 ☐ 不合格轻微变形 ☐ 不合格变形 ☐			
物理检测 Physics tests					
NO.1	平整度H:L mm/M		长度误差mm		
NO.2	直线度 mm/M		屈服强度N/mm²	无: 查阅原产地相符合的检验报告	
NO.3	光洁度Ra um		硬度HV5		
NO.4	宽度误差mm		伸长率E.L %		
NO.5	母带厚度误差mm		抗拉强度N/mm²		
NO.6	焊接厚度误差mm		焊接角度	45° ☐ 80° ☐ 90° ☐	
NO.7	胶条中心距误差mm		胶条抗牢固度N		
化学检测 Chemical tests					
第三方检验	有 ☐ 无 ☐		备注: 请与销售部联系		
自检	有 ☐ 无 ☐				
原产地检验	有 ☐ 无 ☐				
包装检验Packaging (温馨提示:表面要求高的钢带,请特别包装)					
境内包装			境外包装 (出口标准)		
单层表面覆膜 ☐	多层表面覆膜 ☐		单层表面覆膜	多层表面覆膜 ☐	
木箱	木辊		木箱木辊	木辊	
检验员签字:	检验日期:		主管签字:		

订购须知
Ordering Introductions

用途Use

- ☐ 一般输送 Convey
- ☐ 冷却固化 Cooling and Solidification
- ☐ 动力传送 Power Transmission
- ☐ 挤压 Presses
- ☐ 高精度定位、分度、定时等 Index Time Position etc
- ☐ 薄膜成型 Films
- ☐ 其它 Others

尺寸确认 Size Considerations

带厚 Belt thickness _____
带宽Belt width _____
带长 Belt length _____
驱动轮毂直径 Pulley diameter _____
两轮之间中心距离Pulley center distance _____

期望钢带具备的特性 Desired Belt Characteristics

- ☐ 性能强度 Strength
- ☐ 精密度 Precision
- ☐ 清洁度 Cleanliness
- ☐ 耐腐蚀性 Corrosion resistance
- ☐ 热传导性Thermal conductance
- ☐ 耐高温性 High temperature____℃ or____°F

其它要求Other requirements

钢带运行速度Belt speed: _____
交货状态 Delivery status: 开口式Open ☐ 闭环式Welded ☐
包装要求 Packaging needs: _____

★★★提示：在订购或咨询前，请您先比照上列须知！★★★