

瓦楞刀具

Corrugated Cutting Tools

十年磨一剑 用心做好刀

Decades of Edge Crafted with Soul



锐意创新 匠心传承

Boldly Innovate

Devotedly Inherit

企业介绍

Company Profile

我们是一家集研发、生产、销售和提供纸板、纸箱切削及纸箱成型解决方案的专业瓦楞刀具企业，凭借着瓦楞刀具领域的专业水平和成熟技术，依托复合涂层技术和真空热处理工艺，开发出优质刀具，在刀具领域迅速崛起，得到广大客户的一致好评。

We are a professional enterprise specializing in the R&D, production, and sales of corrugated cutting knives, while providing integrated cardboard cutting and carton forming solutions. Leveraging its expertise in corrugated blade technology and advanced composite coating technology with vacuum heat treatment processes, the company has developed high-performance carbide blades, rapidly rising in the cutting tools industry and earning widespread acclaim from global clients.



企业介绍

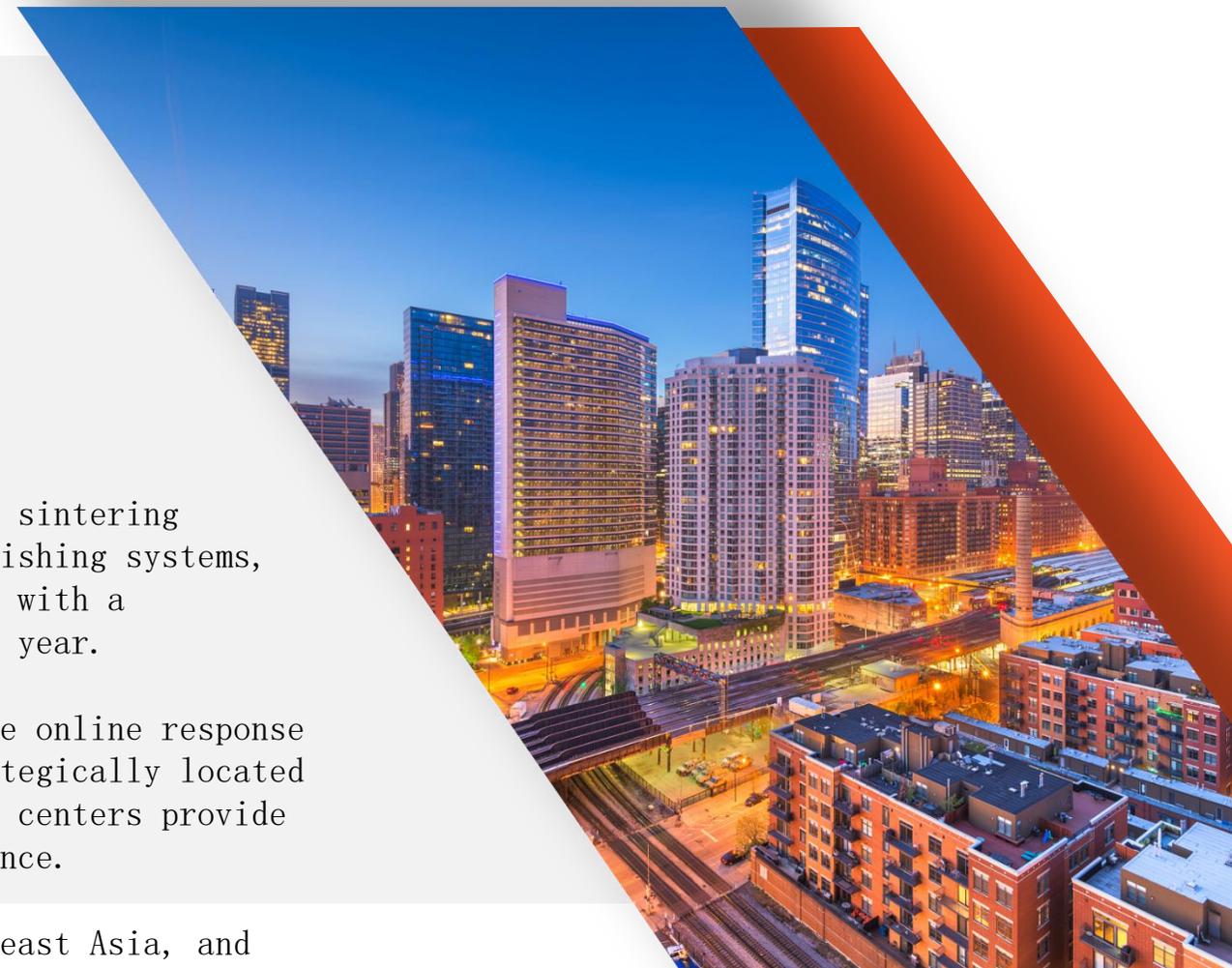
Company Profile

我们拥有先进的加压烧结炉、精密数控磨床、数控研磨机等精密设备，每年服务超**3000+**国内外客户，年产超**30**万片高精度刀片。建立「**15**分钟在线响应+**48**小时到厂」的**VIP**服务体系，在长三角、珠三角布局技术服务中心，配备刀具快速维修响应和再研磨服务。产品出口至欧洲、东南亚等**80**多个国家。

Equipped with state-of-the-art facilities including pressurized sintering furnaces, precision CNC grinding machines, and computerized polishing systems, We annually serve over 3,000 domestic and international clients with a production capacity exceeding 300,000 high-precision blades per year.

The company implements a VIP service system featuring "15-minute online response + 48-hour on-site support", with technical service centers strategically located in the Yangtze River Delta and Pearl River Delta regions. These centers provide rapid blade repair, re-grinding services, and technical assistance.

Products are exported to over 80 countries across Europe, Southeast Asia, and beyond, establishing a global market presence.



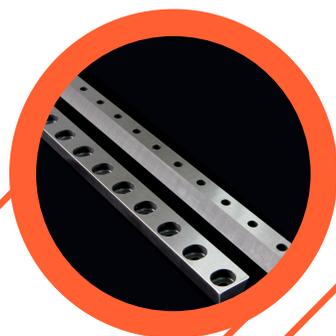
经营业务

Business Operation

我们专注于开发和生产塑料，纸，瓦楞纸板包装，食品包装，电子，金属，特别是用于纸板业横切刀、钨钢刀、印刷开槽刀、修边薄刀、分条刀等，我们同时也提供刀具定制服务，以满足客户的各种需求。公司也拥有一流技术的团队，让我们的产品远销国内外，深受广大用户好评与信赖。

We specialize in the development and production of blades for plastic, paper, corrugated packaging, food packaging, electronics, and metal processing, particularly for the board industry including: cross-cutting knives, tungsten steel blades, printing slotting knives, trimming thin blades, and slitter knives.

We also provide custom blade services to meet diverse customer requirements. Our company possesses a first-class technical team, enabling our products to be sold globally and widely recognized and trusted by customers.



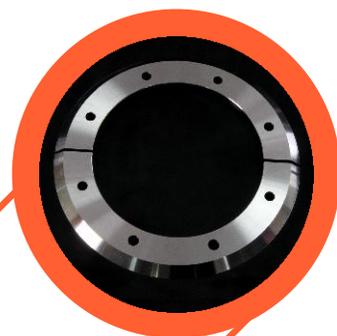
横切刀



钨钢刀



开槽刀



分条刀

合作伙伴
Cooperative Partner

每年服务客户
3000+



We annually serves over
3,000 domestic and
international clients

产品介绍

Product Introduction

开槽刀

Slotting Knife



材料优势

根据不同设备工况，可选材质：

SUJ2,SKD11,HSS

例如：采用 **SKD11** 材质的开槽刀，热处理后硬度在 **HRC61°~63°**，相比一些普通材质耐磨程度更高，使用寿命可超出几倍。

开槽次数最低可达**500**万次。

Material Advantages

Depending on equipment working conditions, optional materials include: SUJ2, SKD11, HSS.

For example:

Slotting knives made from SKD11 achieve a hardness of HRC 61° - 63° after heat treatment, offering significantly higher wear resistance compared to standard materials, extending service life by multiple times.

Minimum slotting cycles can reach up to 5 million times.

产品介绍

Product Introduction

开槽刀

Slotting Knife



加工精度优势

- 通过精密设备和精湛工艺生产的开槽刀，内孔、平行度、端面跳动等指标控制良好，加工精度在**0.01~0.02mm**。
- 优质开槽刀表面光洁如镜，采用先进加工工艺的刀片，刃口光滑无毛刺，切割时能使槽线整齐一致，切面平整无毛边，提高产品外观质量。

Precision Machining Advantages

- Slotting knives produced with precision equipment and expert craftsmanship exhibit well-controlled parameters including bore, parallelism, and face runout, achieving machining accuracy within 0.01-0.02mm.
- Premium slotting knives feature mirror-like surface finishes. Blades manufactured through advanced processes possess smooth, burr-free cutting edges, ensuring consistently neat grooves, flat cut surfaces without burrs, and enhanced product appearance quality.

产品介绍

Product Introduction

开槽刀

Slotting Knife

工艺优势

Process Advantages



淬火 + 回火

真空淬火 + 三次回火 vacuum quenching + triple tempering

开槽刀通过真空淬火 + 三次回火工艺，耐磨性提升 **40%**，寿命较传统工艺刀具延长 **2-3** 倍。

Slotting knives undergo vacuum quenching + triple tempering, increasing wear resistance by 40% and extending service life 2-3 times compared to conventional process tools.



涂层

涂层 coatings

应用特殊涂层，相比未涂层刀具，摩擦系数降低 **30%**，切削温度下降 **150°C**，减少粘刀现象。

Application of specialized coatings reduces the coefficient of friction by 30%, lowers cutting temperature by 150°C, and minimizes material adhesion.



精度高

精度高 CNC Grinding Precision

通过精密数控磨床加工刃口，刃口圆弧半径可控制在 **0.01-0.02mm**，刃口直线度 **≤0.005mm/m**，确保切割时刃口受力均匀，槽型精度更高。

Cutting edges processed with precision CNC grinders achieve an edge radius controlled within 0.01-0.02mm and edge straightness $\leq 0.005\text{mm/m}$, ensuring uniform force distribution during cutting and higher groove accuracy.

产品介绍

Product Introduction

横切刀

Cross-cutting Knife

刀片的选材和热处理是质量的核心

Material Selection and Heat Treatment
are The Core Determinants of Blade Quality

材料优势

Material Advantages

采用国际知名一线品牌钢材ASP, SKH (HSS) 系列, SKD (高合金钢) 系列, TCT (硬质合金) 系列, 满足了客户对刀片高品质的要求。

横切刀的平均最低切次达1200万

Utilizing internationally renowned top-tier steel series:

ASP (Powder metallurgy high-speed steel),

SKH (HSS) series,

SKD (High-alloy steel) series,

TCT (Carbide) series,

fulfilling stringent customer requirements for premium blade quality.

The average minimum cutting cycles of cross-cutting knives reach 12 million.



产品介绍

Product Introduction

横切刀

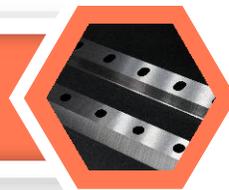
Cross-cutting Knife

工艺优势

Process Advantages

30%~50%

寿命延长



通过真空淬火工艺使刀片材料内部晶体结构重组，刀片刃口硬度可提升至 HRC60-70（普通钢材仅 HRC20-30），耐磨性能显著增强，使用寿命延长 30%-50%。

Through vacuum quenching processes, the crystal structure of blade materials undergoes reorganization, elevating blade edge hardness to HRC 60-70 (compared to HRC 20-30 for ordinary steel). This significantly enhances wear resistance, extending service life by 30%-50%.

0.01mm

刀片变形量



真空热处理通过控温精度 $\pm 5^{\circ}\text{C}$ 的设备实现均匀加热，刀片变形量可控制在 0.01mm 以内。

Vacuum heat treatment utilizes equipment with temperature control precision of $\pm 5^{\circ}\text{C}$ to achieve uniform heating, limiting blade deformation to $\leq 0.01\text{mm}$.

0.1mm

切割误差



横切刀经真空热处理后，尺寸公差符合 ISO 2768标准，切割纸板时误差 $\leq 0.1\text{mm}$ ，确保包装制品的规格一致性。

After vacuum heat treatment, cross-cutting blades comply with dimensional tolerances per the ISO 2768 standard. When cutting cardboard, deviations are $\leq 0.1\text{mm}$, ensuring consistent specifications for packaging products.

产品介绍

Product Introduction

钨钢刀

TC Sliteer Knife

材料优势

Material Advantages

1

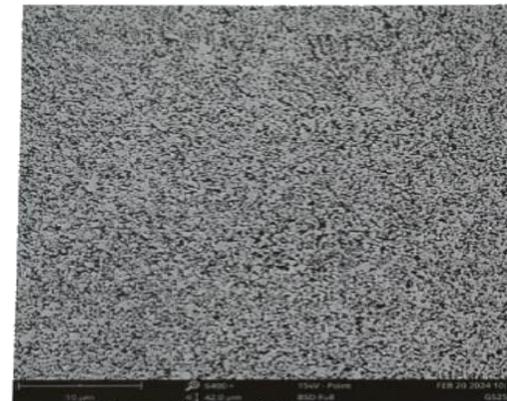
使用**0.4~0.8 μ m**超微粒碳化钨，有效控制在精密刃物上的刀尖缺陷，抑制粉尘，显著提升精密分切效果，得到更好的切口质量。

Using 0.4~0.8 μ m submicron tungsten carbide to effectively control micro-defects on precision cutting edges, suppress particle generation, significantly enhance precision slitting performance, and achieve superior cut quality.

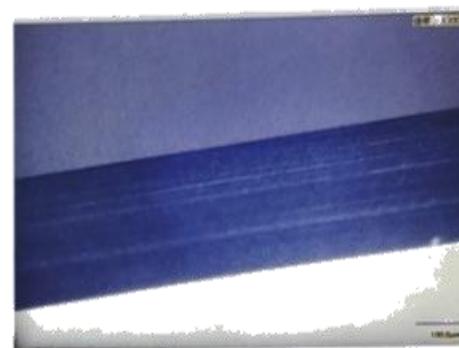
2

高硬度带来卓越的寿命。**HRA**硬度可高达**93.5**。兼具良好的破坏韧性和抗弯强度，刀片使用时更加稳定。最低切削长度达到**300**万米。

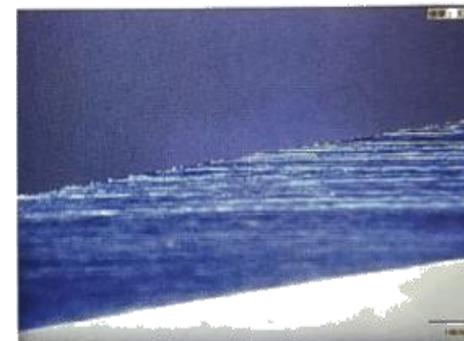
High hardness delivers exceptional longevity. HRA hardness can reach up to 93.5. Combined with excellent fracture toughness and bending strength, blade stability is significantly enhanced during operation. Minimum cutting length achieves 3 million meters.



背散射电子相**x6400**



超微粒合金刀具刃口**x300**



普通细颗粒合金刀具刃口**x300**

产品介绍

Product Introduction

钨钢刀

TC Sliteer Knife

加工优势

Machining Advantages



恒温控制

加工车间采用恒温控制，有效保证产品批次间的质量稳定性和一致性。

Machining workshops employ constant temperature control, effectively ensuring inter-batch quality stability and consistency.



精度控制

加工技术可保证刀具的厚度、平面度、平行度、直线度达到微米级控制水平。表面粗糙度可达到**Ra0.02**以下，完全镜面效果。

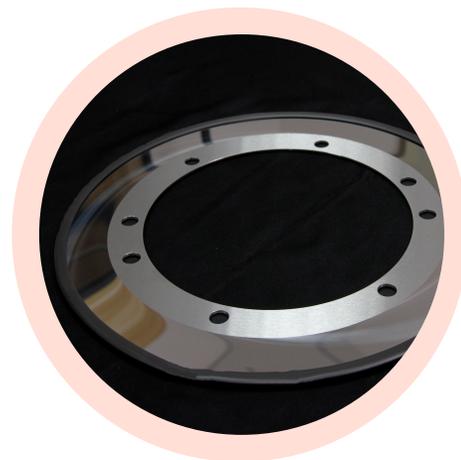
Machining technology achieves micron-level (μm) control for blade thickness, flatness, parallelism, and straightness. Surface roughness reaches $Ra \leq 0.02$, delivering a fully mirror-like finish.



缺陷控制

多年的工业刀具刃口研磨技术可保证刃尖微米级缺陷控制。

Years of industrial blade edge grinding expertise enable to guarantee micron-level defect control at the cutting edge.



检测控制

高精度特殊刃口处理技术在保证刀具锋利度的同时，支持**300倍**及以上放大检测“零缺口”。

Advanced special edge treatment technology maintains blade sharpness while supporting "zero-notch" inspection under 300x magnification or higher.

产品介绍

Product Introduction

钨钢刀

TC Sliteer Knife

技术优势

Technical Advantages

01

独特的烧结工艺得到更高比例的- α 粘接相，有效提升抗弯曲强度 **TRS**，最高可达**5000 MPa**。

Unique sintering process achieves a higher proportion of $-\alpha$ bonding phase, effectively enhancing Transverse Rupture Strength (TRS) to a maximum of 5,000 MPa.

03

还提供其他一些特殊的表面处理，可起到防粘、防腐蚀氧化、提升表面硬度等功效。

We provide specialized surface treatments that deliver anti-adhesion, corrosion/oxidation resistance, and increased surface hardness.

02

高于行业标准的金相控制水平，得到更加致密强韧的硬质合金。

Our Metallographic control standards exceed industry norms, resulting in denser and tougher cemented carbide structures.

04

真空镀膜技术可根据客户的使用需求定制化生产带涂层的刀具。

Our vacuum coating technology enables customized coated blades tailored to specific operational requirements.

检验环节

Check Procedure

建立超行业标准的检验体系

Establishing Inspection Systems Exceeding Industry Standards

超越国标 Enhanced Hardness Control

1、国标 **GB/T 6130-2012** 对刀具硬度检测允许偏差 **±3HRC**，我们将内控标准提升至 **±1HRC**，并增加“刃口硬度梯度检测”，如沿刃口 **1mm** 范围内硬度差 **≤2HRC**。

(若仅按国标检测则无法满足该精度)

1、While the national standard GB/T 6130-2012 permits a hardness deviation of ± 3 HRC, We have elevated its internal control standard to ± 1 HRC. Additionally, it implements "Edge Hardness Gradient Testing" (e.g., hardness variation ≤ 2 HRC within a 1mm range along the edge). (Note: Conventional GB-compliant inspections cannot achieve this precision.)

能检尽检 100% Full Inspection Coverage

2、实施**100%**全检，涵盖刀具制作表的全部标注尺寸

2、All specified dimensions on the blade manufacturing checklist undergo 100% full inspection.

售后服务

After-sales Service

1、24 小时在线客服，通过视频实时远程协助客户排查刀具故障，首次响应时间 ≤ 15 分钟。

24/7 Online Support: Real-time video remote assistance for troubleshooting blade issues (e.g., blade wear assessment, installation debugging), with ≤ 15 -minute initial response time.

2、江浙沪、珠三角地区当天赶到现场解决问题，其他区域客户与区域负责人约定时间后准时上门服务。

Same-day On-site Service: For Jiangsu-Zhejiang-Shanghai (江浙沪) and Pearl River Delta (珠三角) regions; other regions require scheduled appointments with regional managers.

3、与客户约定售后时间会错开生产时间，不影响客户正常生产。

Production-friendly Scheduling: Service timelines avoid interfering with client production cycles.

5、高价回收废旧钨钢刀，直接抵扣后续订单货款。

High-value Recycling: Tungsten carbide blades recycled at premium rates; value directly offsets subsequent orders.

4、每次上门服务会根据刀具的磨损度与使用频次提出维修或更换的建议。

Proactive Maintenance Advice: Post-service reports include wear analysis and usage frequency-based recommendations for repair/replacement.





THANKS