



运动用具

智能裁切解决方案

Sports equipment
Overall smart cutting solutions

运动用具制造商所面临的挑战 | The challenges that the manufacturers of sport equipment are facing



- 材料价值高, 节省材料是创造利润的有效手段
- 材料硬度高, 裁切难度大
- 熟手工人难招, 新手工人工培训时间长切人员流失严重
- 产能低, 投入产出比不理想

- Cost of material is very high, saving material is the most effective profit source.
- Material hardness rigidity is high, very difficult to cut
- Skillful worker not easy to recruit, takes long time to train new workers.
- low production capacity, Input-output ratio is not good



智能裁切解决方案
Smart cutting solutions

方案介绍 | Introduction of solution

本方案包含CAD转档, 规则材料智能排版及裁切全部工序, 针对解决碳纤维片状或其他卷状高价材料的裁切。

This solution includes the whole process from CAD conversion, nesting to smart cutting.
It is for cutting high density material in sheets like carbon fiber and other expensive material in rolls.

优势: 本方案的裁切机带有收料区, 裁切区面积适合常规片状材料, 一边切割一边收料, 机器稼动率和生产效率均优。

Advantage: This solution offers a cutting machine of cutting area that would fit most of the material in sheets.
It comes with a collecting area, cutting and collecting at the same time. OEE and production output are both good.

机型介绍 | Models

DT



+

DN



+



DT-2008(V2020)

格式转换软件
Format conversion software

DN-2018-TC

规则材料自动混合排版软件
Auto-Nesting software

X1-1216C

智能裁切机
Smart cutting machine

B

智能裁切解决方案 Smart cutting solutions

方案介绍 | Introduction of solution

本方案包含CAD转档, 规则材料智能排版及裁切全部工序, 针对解决碳纤维等片状高价材料的多层裁切。

This solution includes the whole process from CAD conversion, nesting to smart cutting.
It is for cutting multiple layers of high density material in sheets like carbon fiber.

优势: 本方案的裁切机工作幅面与常规片状材料相匹配, 双刀头同时异步裁切, 是高价片状材料裁切的优选。

Advantage: This solution offers a cutting machine of cutting area that would fit most of the material in sheets.
2 heads cutting at the same time, is a good choice for material in sheets.

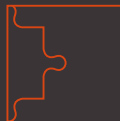
机型介绍 | Models

DT

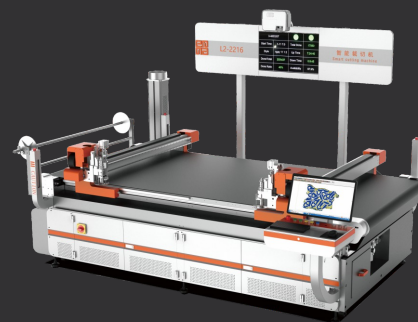


+

DN



+



DT-2008(V2020)

格式转换软件
Format conversion software

DN-2018-TC

规则材料自动混合排版软件
Auto-Nesting software

L2-2216

智能裁切机
Smart cutting machine

A

客户简介 Company introduction

国内知名碳纤维运动用具制造商, 主营自行车配件及曲棍球杆, 服务各大运动品牌, 出口份额100%。

Famous carbon fiber producer, their major business is bike parts and hockeysticks. Sells to sport brands all over the world. 100% export.



A

面临挑战

碳纤维材料价值高, 成本控制难。
材料硬度高, 裁切难度大, 需要提高裁切效率。
裁片不标准, 容易抽丝。

Their challenges

Carbon fiber is expensive. It's difficult to control cost. The hardness is high making it difficult to cut. The efficiency needs to be improved. The cutting result does not reach the standard, loosen fibers on the edge of cut pieces.

投资规模

客户投资电脑自动排刀系统, 多套单头裁切机
搭配双头裁切机

Investment mode

Invested on nesting software, single head cutting machine and double head cutting machines.

效益分析

- 电脑排刀, 材料间隙少, 节省约5%-10%材料
- 单头机带切割区+收料区, 切割收料同时进行, 提高效率
- 节省工人, 每台机器1人操作, 人均产出是原来的1.5倍
- 裁片标准, 大大降低报废率
- 投资回收期: 约12个月

Investment returns analysis

- Auto-nesting, waste between pieces is low, material saving 5%-10%
- cutting and collecting at the same time, efficiency is higher
- 1 worker for 1 machine, output per capita has increase 50%.
- cutting quality is high, disqualified rate is much lower
- return on investment: about 12 months

B

客户简介 Company introduction

客户是滑冰鞋制造商, 为一线运动品牌公司旗下的滑冰产品线品牌代工, 定位高端
This customer is manufacturer of stating shoes. They OEM for an ice hockey product line of a first-line sport brand.
High end and good quality are their brands.



B

面临挑战

碳纤维材料价值高，成本控制难。手工裁切难度大，切割品质不稳定。

Their challenges

Carbon fiber is expensive, it's difficult to control cost. The hardness is high making it difficult to cut. The cutting quality needs to be improved.

投资规模

客户投资电脑自动排刀系统搭配切割流水线

Investment mode

Invested on nesting software and smart cutting machine.

效益分析

- 电脑排刀，材料间隙少，减少浪费，节约成本
- 切割区+收料区，切割收料同时进行，提高效率。
- 投资回收期：约12个月

Investment returns analysis

- Automatic nesting, waste between pieces is low, reduce cost by saving material
- Cutting zone and collecting zone working together, oee and efficiency is improved.
- Return on investment: around 12 months