



运动护具

智能裁切解决方案

Sports safety

Overall smart cutting solutions



- 市场变化快, 要求企业能快速反应
- 大量客制化的少量订单
- 刀模裁断效率低, 刀模的保管成本高
- 品种多样化, 订单的复杂化, 刀模配套复杂而且周期长
- 人手排版效率低, 重复劳动, 且利用率不理想, 利润进一步流失
- 熟手工人难招, 新手工人培训时间长, 不可控因素多
- 流行趋势是多物料混搭, 传统生产模式工序多, 分工散, 各物料裁断配套环节拖沓, 互相影响导致作业流程不顺畅, 效率低下

- The market demands changed rapidly required company react quickly.
- More and more small customized order
- Die cut molds cutting result is not good, storage cost high
- The profit was affected by diversified order, die cut molds complexity and long lead time,
- Manual nesting low efficiency, rehandling, utilization ratio is not good enough, profit loss .
- Skillful worker shortage, long training time for new workers, many uncontrollable factors.
- Tendency is multi-materials combination, too much procedures in traditional production mode, disperse division, the efficiency was affected.



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, 常规配置可选两台智能裁切机(最大配置四台), 本机型可以裁切各种运动护具面料/辅料(人造革、里布、复合材料、网布、TPU等)并能裁切全张猪皮/反毛皮;两张羊皮。

This Solution include the whole process from CAD conversion, synthetic material auto nesting to smart cutting. Normally 2 sets of smart cutting machine working as a combination (Optimal 4 sets). Suitable for various sports safety materials (Artificial leather, lining, Composite material, mesh, TPU etc.), as well as full pig skin/suede; two sheep skins.

优势: 运动护具全物料智能裁切系统, 适合大分片护具行业(0.3-2.2米大小)使用, 运动护具行业投资首选。
Advantages: Overall smart cutting system for sport safety, suitable for big pieces cutting (around 0.3-2.2m), the optimal choice of sports safety industry.

机型介绍 | Models

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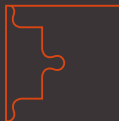
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格式转换软件

Format conversion software



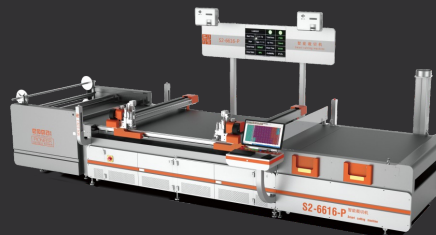
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规则材料自动混合排版软件

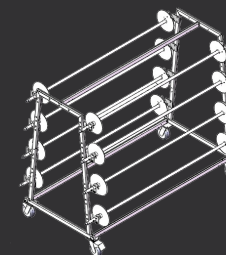
Auto-Nesting software



S2-6616-P

智能裁切机

Smart cutting machine



8层送料架

Rack for 8 rolls

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This Solution include the whole process from CAD conversion, synthetic material auto-nesting to smart cutting. Normally 2 sets of smart cutting machine working as a combination (Optimal 4 sets). Suitable for various sports safety materials (Artificial leather, lining, composite material, mesh, TPU etc.)

优势: 本机型占地面积小, 能耗低, 适合小分片护具行业 (0.05-0.6米大小) 使用, 小型运动护具行业投资首选。

Advantage: Take less space, lower energy consumption. suitable for small pieces cutting (around 0.05-0.6m), the optimal choice of small sports safety industry.

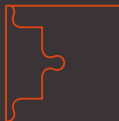
机型介绍 | Models

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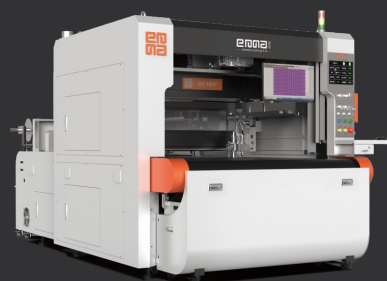


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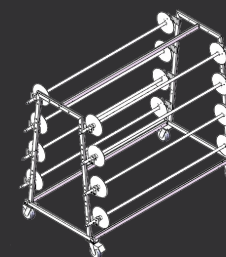
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DT-2008(V2020)
格式转换软件
Format conversion software

DN-2018-TC
规则材料自动混合排版软件
Auto-Nesting software

G2-1605
智能裁切机
Smart cutting machine

8层送料架
Rack for 8 rolls

获得好处 | Advantages

- 100%节省刀模, 节省刀模管理人员及场地。 100% saving die cut molds, save die cut molds space and management cost
- 节省50%熟练裁断工, 新人培养易。 Save 50% skillful worker, easier to train new worker.
- 无论大小订单, 均能快速应对。 Quick reaction no matter how order quantity.
- 高品质裁片, 能做高难度工艺。 High quality cutting, high challenge technology
- 数字化材料管理, 有效掌控耗量, 提升5-8%辅助材料利用率。 Material digitizing management, control leather quantity & quality, improve 5-8% Synthetic material utilization.
- 裁切、冲孔、划线, 多工合一, 并实现多物料裁切, 减省流程, 提高效率。 Cutting, punching, marking, all-in-one, reduce procedure, improve efficiency.
- 提升企业形象及综合竞争力。 Improve company image and comprehensive competition.



客户简介 Company introduction

国内专业的运动护具制造商，东南亚以及国际知名赛事的体育赞助商，护具产品年生产能力达到150万套，获得多项行业的设计专利，发明专利，是世界级比赛的指定器材供应商。

Professional sport safety manufacturer , Southeast Asia and international outstanding Sports event sponsor, annual output of sports safety products 1.5 million sets, holds many design and innovation patent, world-class event Designated equipment supplier.

面临挑战

面对300多个产品品种，品种多样化，订单的复杂化，刀模配套复杂而且周期长，处于劣势情况，不符合企业快速发展的需要；另为了应对陆续出现的熟练生产裁断工人的短缺现象而考虑使用自动化设备取代。

Their challenges

More than 300 product categories, various orders, complicate die cut molds and long delivery time could not meet company fast development; Moreover, skillful worker shortage is also important reason to consider smart cutting device.

投资规模

引进生产自动排刀系统软件，引进双刀头流水线式智能裁切系统设备

Investment mode

Investment mode: Introduce auto nesting software, double heads smart cutting machines

效益分析

- 刀模节省100%，一年的刀模费用在20万左右之间
- 人工节省30%
- 材料节省5—8%每年，材料上每年能节省40—50万元（人民币）
- 投资回报率:12个月左右

Investment returns analysis

- 100% saving die cut molds, save die cut molds cost around RMB 200,000 per year.
- Save 30% human power.
- Saving material 5—8% per year, material cost saving RMB 400,000—500,000 per year
- Investment return period: Around 12months