



真皮皮帶

智能裁切解決方案

Leather belt

Overall smart cutting solutions



- 市场变化快, 要求企业能快速反应
- 手工开料效率低, 还要分条、切尾、打孔多个工序完成, 流程长。
- 利润受少量多样订单制约, 空间越来越小
- 人手排版效率低, 劳动强度大, 利用率不理想, 利润进一步流失
- 熟手工人难招, 新工人培训时间长, 不可控因素多
- 对异型皮带无法手工开料, 需作刀模, 成本高。
- 依赖人工统计, 数据收集滞后, 效率低, 易出错

- The market demands changed rapidly required company react quickly.
- Die cut molds cutting result is not good, have a few procedures including collecting, cutting tails and punching .
- The profit was affected by diversified order
- Manual nesting low efficiency, utilization ratio is not good enough, profit loss .
- Skillful worker shortage, long training time for new workers, many uncontrollable factors.
- Shaped belt could not cut by hand, need die cut molds, high cost.
- Data collection not real time, low efficiency.

A

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, 部件等级设定, 皮革数字化及智能排版及裁切全部工序, 常规配置可选两台智能裁切机, 本机型可以裁切全张半边牛皮, 同时裁切两张猪皮/反毛皮; 四张羊皮; 并能裁切各种皮具类辅料(里布、皮糠纸、网布、人造革、TPU等)。

This Solution include the whole process from CAD conversion, parts grade definition, leather digitization, auto-nesting to smart cutting. Normally 2 sets of smart cutting machines working as a combination. Suitable for half body cow skin, two pig skins/suedes together; four sheep skins, as well as various leatherware accessories (Lining, bonded leather ,mesh, Artificial leather, TPU etc.

优势: 皮具皮带全物料智能裁切系统, 皮带皮具手袋厂投资首选。

Advantages: Overall smart cutting solution for leather belt, first selection of leather belt manufacturer.

机型介绍 | Models



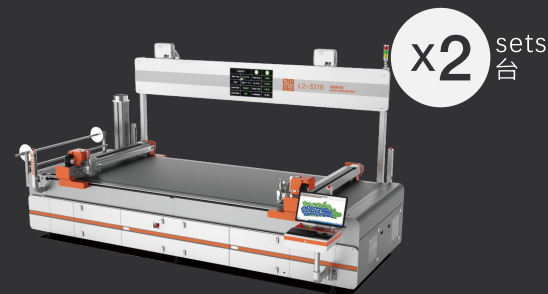
DT-2008(V2020)
格式转换软件
Format conversion software



N-3116A-L
数控皮革排版机
Leather nesting machine



N-18
智能排版服务器
Auto nesting server



L2-3316
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, 手动排版及裁切全部工序, 本机型可以裁切全张半边牛皮, 手动排版与裁切能同时作业, 高效灵活。

This Solution include the whole process from CAD conversion, manual nesting and smart cutting, suitable for half body cow skin, manual nesting to cutting at the same time, more flexible and higher efficient.

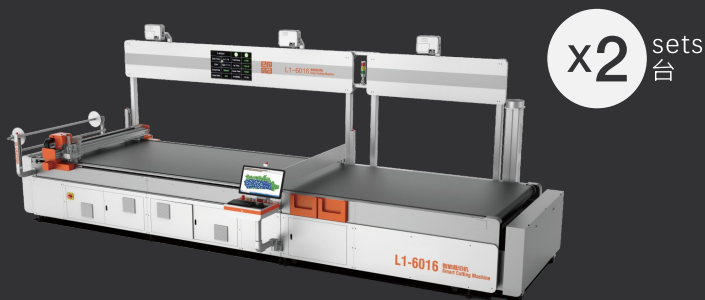
优势: 本方案主要针对厚质天然纹路皮带皮革(树膏皮)的裁切进行设计, 手动排版方式可以灵活避开皮革上的各种瑕疵, 内含爱玛的“爱合”并线裁切技术能有效提高生产效率。

Advantages: Suitable for thick leather with natural leather grain like vegetable-tanned leather, manual nesting can define the defects flexible, Emma patent technology “imerger” (smart merge lines technique) can improve production efficiency.

机型介绍 | Models



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



L1-6016
智能裁切机
Smart cutting machine

x2 sets
台

获得好处 | Advantages

可以接异型皮带订单, 无需刀模, 增强接单能力。

1

Cut shaped belt achievable, no need die cut molds, improve order processing ability.

节省50%熟练裁断工, 新人培养易。

2

Save 50% skillful worker, easier to train new worker.

无论大小订单, 均能快速应对。

3

Quick reaction no matter how order quantity.

高品质裁片, 能做高难度工艺。

4

High quality cutting, high challenge technology

分条、裁切(切尾)、冲孔、划线, 多工合一, 减省流程, 提高效率。

5

Division, cutting, punching, marking, all-in one, less procedure, higher efficiency.

皮革数字化管理, 有效掌控皮革数量, 品质, 提升6-10%皮革利用率。

6

Leather digitizing management, controlling leather quantity, quality, improving 6-10% utilization of leather.

提升企业形象及综合竞争力。

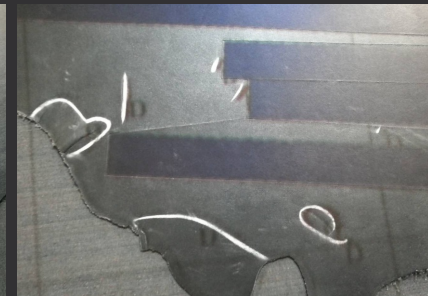
7

Improve company image and comprehensive competition.

多台机应用, 可安装“智能裁切大数据分析系统”,
汇总数据, 与企业内ERP/MES系统无缝对接。

8

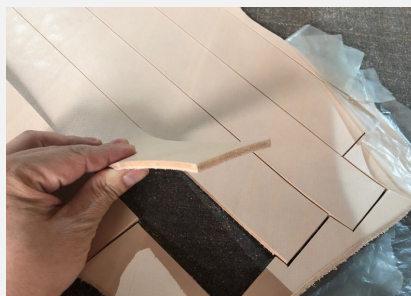
Multiple machines, install smart cutting big data analysis system, data report, integrate with company ERP/MES.



客户简介 Company introduction

本案例是一家国际领先的真皮皮带/皮具生产工厂，
人数超过800人，厂区位于中国制造业名城：东莞。

The company in this case is worldwide leading leather belt/leather ware manufacturer,
has more than 800 employees, located in Dongguan, China.



面临挑战

原来皮带的裁切方式一直依赖熟练真皮裁断工人的技能,在整张皮革上手工排版,裁出皮带外框后再用分条机裁成条状;既浪费材料,又增加生产流程。如果皮革等级差,瑕疵多,对出裁率影响大,成本难以有效控制。

Their challenges

Traditional belt cutting has long relied on skillful workers, nesting and cutting manually; Material utilization and production process is hard to control. If leather have a lot of defects, material waste is also unavoidable.

投资规模

厂区内投资3台定制的真皮智能裁切机台,建设智能裁切中心,集中裁切厂区内所有真皮材料,满足厂区内所有产线的生产需求(此部门为独立车间,将根据生产需要安排24小时运营)。

Investment mode

Investment modes: 3 sets smart cutting machines for leather, built in smart cutting center, cutting all of the leather intensively, meet all of the production lines' production requirement (This department should be independent workshop, 24-hours operation available based on production situation)

效益分析

- 100%节省皮带类的刀模支出。
- 平均节省材料6-10% (视款式组合而定,如果采用皮带、皮具、票夹等款色同材混排,可节省皮料8-10%),因皮料价值高,本项节省较为可观。
- 生产力约为人工裁断的3倍,以3台机投入计,最多可节省6个熟练真皮裁断工人。
- 品质/效率/物控达到预期的理想效果,生产数据与企业ERP无缝对接,真皮材料从入仓到裁切完全实现数字化管理。
- 有效应对客户对非直条异型皮带的生产需求(如波浪、弯月、头大尾小等等造型),接单数量明显增加。
- 减少二次分条裁切工序、三次切尾、四次冲孔的传统工序,实现多工合一,整程整合。
- 投资回收期:18-24个月(视企业内实际情况及评估方式而定)。

Investment returns analysis

- Saving 100% of belt die molds cost.
- Saving material 6-10% (Depend on different styles, if do nesting based on same materials by different styles and colors in belt, handbag and wallet, 8-10% materials can be saved.) Due to the high value of leather, substantial cost can be saved in mass production.
- Productivity is 3 times of traditional die cut machine. Take 3 machines to calculate, save 6 skillful workers maximumly
- Ideal in Cutting quality /efficiency/material control, integrate EMMA smart cutting system with ERP. Realtime date control from leather arriving to cutting.
- Cope with customer's demand for abnormal shape belt (such as wave, Crescent and so on), sales performance increased a lot.
- Merge the procedure like recut belt, cutting tail, punching. All-in-one, simplify the procedures.
- Investment return period: 18-24months (Accurate time is depended on each company's actual situation)