真皮手袋

智能裁切解决方案

Leather handbag

Overall smart cutting solutions

- 市场变化快,要求企业能快速反应

- 刀模裁断效率低,刀模的保管成本高

- 利润受少量多样订单制约,空间越来越小

- 人手排版效率低,利用率不理想,利润进一步流失

- 传统工艺品质不良率高,复裁次数多,物耗成本高

- 熟手工人难招,新手工人培训时间长,不可控因素多

- 与皮料供应商之间频繁"扯皮",没有证据,无法追溯

- 传统生产模式工序多,分工散,各环节拖沓互相影响导致作业流程不顺畅

- 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, storage cost high

- 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.

- The traditional working methods makes a lot unqualified products. Have to recut and waste a lot of material.

- Many disputes with leather supplier, hard to track.

- Too much procedures in traditional production mode, disperse division, the efficiency was affected.

- 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,智能排版及裁切全部工序,可同时裁切全张半边牛皮/两张猪皮或反毛皮/四张羊皮。本机有两个裁切区,可交替裁切作业达到超高稼动率。

This solution includes the whole process of CAD conversion, quality grade definition, leather digitization, auto-nesting and smart cutting. In one single cutting area can fit 1 pc of half body cow hide/2 pig skin or suedes/4 sheep skins. There are 2 cutting zones, can achieve high OEE with alternate cutting operations.

优势：皮具手袋全真皮智能裁切系统，高配投资首选。
Advantage: leather cutting solution for handbag, high configuration.

机型介绍 | Models

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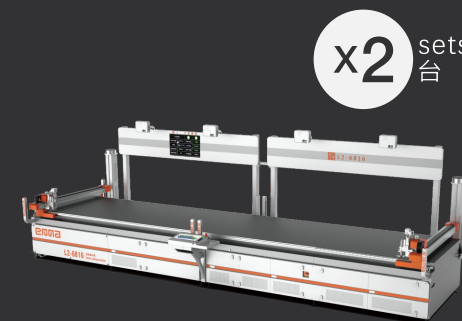Format conversion software

PN-3216-E
数控皮革排版机
Leather nesting machine

N-18
智能排版服务器
Auto nesting server

DN-2018-LS
真皮智能排版软件
Leather automatic nesting software

x2 sets 台

L2-6816
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,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小牛皮、全张半边牛皮,同时裁切两张猪皮/反毛皮;四张羊皮;也可裁切卷材/片材等辅料。

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 full calf skin, half body cow skin, two pig skins/suedes together; four sheep skins,It can also cut synthetic material in rolls or sheets.

优势:本机既可以裁切全类真皮,也可以量产裁切辅料,皮具手袋全物料智能裁切首选。
Advantage: Can cut both leather and synthetic in mass production, a good choice for all-material cutting.

机型介绍 | Models

DT

sets 台 x2

DN

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

+

DN-2018-LS
真皮智能排版软件
Leather automatic nesting software

+

L2-6716
智能裁切机
Smart cutting machine

C

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，视觉识别及裁切全部工序，4个高清相机及先进的软件算法，可根据预设模板自动识别图案/形状，是复材和对纹裁切的不二之选。

This solution includes the whole process of CAD conversion, visualizing and smart cutting. With 4 sets of HD cameras and advanced algorithm, it identifies the pattern/printing according to the preset model. It's a good solution for recut and pattern/printing cutting.
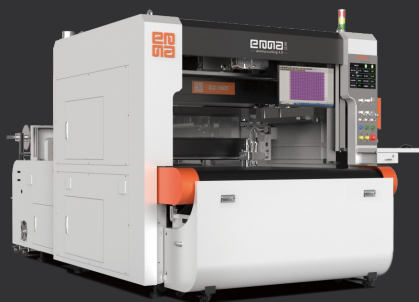
优势：皮具手袋复材/对纹对花视觉辅助高效裁切。
Advantages: vision aided cutting solution for handbag that needs recut and pattern/printing cutting,

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机型介绍 | Models

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

+

G2-1605
智能裁切机
Smart cutting machine

+

V4
视觉识别模块
Vision module

获得好处 | Advantages

100%节省刀模，节省刀模管理人员及场地。	**1**	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。	**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
皮革数字化管理，有效掌控皮革数量，品质，提升2-6%皮革利用率。	**5**	Leather digitizing management, control leather quantity & quality, improve 2-6% leather utilization.
裁切、冲孔、划线，多工合一，减省流程，提高效率。	**6**	Cutting, punching, marking, all-in-one, reduce procedure, improve efficiency.
减少复裁率，提高品质及减少物耗。	**7**	Reduce frequency of recut, improve quality and reduce waste of material.
形成统一标准，实现高效多地生产。	**8**	Uniform standard, high-efficient production
提升企业形象及综合竞争力。	**9**	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。	**10**	Multiple machines, install smart cutting big data analysis system, data report, integrate with company ERP/MES.
解决人工对纹对花裁切效率低，报废率高的问题。	**11**	High efficiency and quality comparing to manual pattern/printing cutting.

集中裁切解决真皮裁切的招工难题。
Target leather handbag production labor shortage

客户简介
Company introduction

本案例是一家国际领先轻奢品牌皮具手袋代工厂，集团总人数超过1.2万人，分布在三个国家共三个厂区。
The company in this case is worldwide leading brand Entry lux leather ware and handbag OEM factory
has more than 12 ,000 employees,3 factories located in 3 different countries.

面临挑战

随着品牌商的业绩创新高，同时集团布局东南亚国家建设新厂，面对迅速增长订单，熟练真皮裁断工人的严重短缺及难以短期培训成为制约产能的最大挑战。

Their challenges

With the business growth of brand company, the OEM company planning to build new factory in southeast Asia, facing with increasing orders, the shortage of skillful employee and limitation of training time has become the largest challenge of productivity.

投资规模

每个厂区内投资10台真皮智能裁切机台（分期建设），建设智能裁切中心，配备3组真皮智能排版系统，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

10 sets smart cutting machines for leather (by stages), built in smart cutting center, working with 3 sets auto nesting system, cutting leather intensively, meet all of the production lines' request (This department should be independent workshop, 24-hours operation available based on production situation)

效益分析

- 100%节省真皮类的刀模支出。

- 平均节省材料2-6%（视款式组合而定，如果采用皮带、手袋、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3-6倍（视款式而定，平均值为4倍），以10台机投入计，最多可节省30个熟练真皮裁断工人（实际节省20人，其中10个操作真皮智能裁切机台的人为普工）。

- 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。

- 投资回报期：18-30个月（视企业内实际情况及评估方式而定）。

Investment returns analysis

- Saving 100% of leather die molds

- Saving material 2-6% (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 3-6 times of traditional die cut machine (Depend on styles, average 4 times)Take 10 machines to calculate, save 30 skillful workers maximumly(Actually 20 employees saving, only need 10 general workers to operate machines)

- Ideal in Cutting quality /efficiency/material control, integrate EMMA smart cutting system with ERP. Realtime data control from leather arriving to cutting.

- Investment return period: 18-30 months (Accurate time is depended on each company's actual situation)