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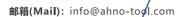
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OPEN

Suzhou Ahno Precision Cutting Tool Technology Co., Ltd/



公司简介 / COMPANY PROFILE

苏州阿诺精密切削技术有限公司成立于 2002 年,由海归博士柯亚仕创立,经过 20 多年的发展,已经成长为中国金属切削刀具领域最具影响力的企业之一,集团拥有 1300 多名员工,6 家刀具工厂,23 家连锁修磨和涂层服务中心。

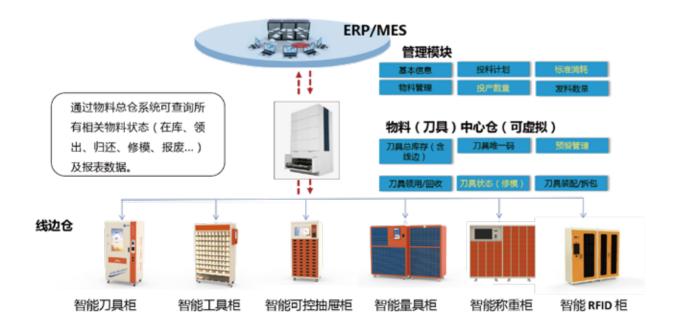
阿诺数字化专注刀具现场和仓储一体化管理,拥有高效专业的软硬件开发和售前售后技术支持团队,本着"质量就是生命"的理念,在航空航天、机械加工、医疗器械、电子仪表等各种领域,提供高品质的智能仓储产品和智能制造系列整体解决方案

Suzhou AHNO Precision Cutting Technology Co., Ltd. was founded in 2002 by overseas returnee Dr. Yashi Ke. After more than 20 years of development, it has grown into one of the most influential enterprises in the field of metal cutting tools in China, with more than 1300 employees, 6 tool factories, and 23 chain regrinding and coating service centers. AHNO focuses on the overall management of tools on–site and warehousing, with efficient and professional teams in software and hardware development, and pre–sale and after–sale technical support.

In line with the concept of "quality is life", we provide high-quality intelligent warehousing products and overall solutions in various fields such as aerospace, machining, medical device, electronic instruments, etc.

智能刀具管理系统--整体架构

Intelligent tool management system - overall architecture



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6.02版





刀具管理

Tool management

管理痛点/难点

Management pain points / difficulties

1、刀具领用耗时长、手续繁琐

It takes too long to get the cutting tool

3、以旧换新执行不彻底

Return old for new one cannot been done thoroughly

5、库存无法实时监管及预警

Cannot monitor and warning when storage low

7、报表统计不准,单据处理繁琐

Difficult for statistics and tedious for handling receipts

2、刀具领用后不知所踪

Easily missing in use

4、刀具使用追溯困难

Too difficult for traceability when using cutting tool

6、夜班需提前领料或人员值守

Stand by for 24H or receive in advance for the night shift

8、使用成本过高,核算困难等

High cost and difficult for accounting



智能刀具柜的优势

Advantages of Intelligent Tool Cabinet









系统功能 / System Function

■ 无人值守 24小时无人值守,自助领料还料,操作信息详细记录可追溯,物流和信息流实时一致。

Unattended No one stand by for 24H and self-service. Information flow and logistics are generated at the same time

■ 多元登录 账号密码、刷卡、人脸识别,权责明确。

Multi-Login Muti-login including password , card and face identification.

■ 快捷领取 一键领用,快达10秒,批量购物车领取。

Quick collection Receive through shopping cart quickly.

■ 限权管理 管理员和员工不同权限,按需领取,可限制领取和未归还数量上限,避免浪费。

Authority management Receive based on management privileges and limit quantities to avoid waste.

■ 归还审核 分类回收,后台审核,以旧换新,快速凸显异常操作。

Return review Return old for new and intelligent picking, highlight abnormal opeartions.

设定安全库存,界面颜色提醒,邮件预警。 ■ 库存预警

Automatic warning Automatic warning and purchasing notice by setting safety stock and email.

大物料和不常用物料,可一并管控。 ■ 虚拟仓配置

settings

Customized

Clear cost

Virtual warehouse Large materials and infrequent materials can be controlled together.

■ 系统接入 定制化需求,对接ERP、MES、WMS等客户系统,数据互通。

System access Customization requirements, Easy connection with ERP/MES/WMS and etc.

流线型设计,鲜亮的色彩搭配,提升企业车间形象,对柜机容量和配置可无限扩展。 ■ 模块结构

Streamlined design, bright color matching, promote the image of enterprise workshop, and expand the Modular Design

capacity and configuration of cabinet machine infinitely.

■ 智能报表 自动实时生成领用、未归还、库存、物料上下架等数据记录和统计分析报告,实时查看。

Automatically generate data records and statistical analysis reports such as collection, unreturned, inventory, Intelligent reports

loading and unloading of tools, and view them in real time.

■ 成本清晰 各成本中心消耗实时展现,为整个工厂决策提供依据。

The consumption of each cost center is displayed in real time, which provides the basis for the decision of the

whole factory.



数据报表

Data reports



可视化图表 Visual chart



▲ 智存系列——标准版智能刀具柜

Smart Storage Series - Standard Edition Intelligent Tool Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-B2 Type no: BSC-TB-B2

颜色: 米色/橘色(可定制) Color: Beige/Orange(Customizable)

电源: AC 220V Power: AC 220V

功率: 200W Power: 200W

重量: 400kg Weight: 400kg 显示器: 32寸触摸屏

Screen size: 32 inch touch screen

外观尺寸: 1070*804*2012mm **Dimensions:** 1070*804*2012mm

物料数量: MAX 90*16=1440件 Tool Quantity: MAX 90*16= 1440 pieces

管理品种: 9*10 =90 品种(varieties) Management Variety: 9*10 =90 varieties

回收仓尺寸: 498*128*365mm Recycling bin size: 498*128*365mm

物料参考尺寸: 最大尺寸-长:140mm 宽:60mm 厚:15mm

Package size: maximum size – length: 140mm width: 60mm thickness: 15mm

适用场景 / Applicable Scenarios

■ 放置于加工车间现场,管理机床用刀片、铣刀、钻头、丝锥物料

Placed in the workshop site, managing the materials of blades, milling cutters, drill bits and taps for machine tools

■ 员工随用随取,可多车间同时使用,多柜同时取料

Employees can take tools when they need them at the same time in multiple workshops, and multiple cabinets can take materials at the same time





▲享存系列——豪华版智能刀具柜

Enjoy Storage Series - Deluxe Edition Intelligent Tool Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-C1 Type no: BSC-TB-C1

颜 色: 米色/橘色(可定制) Color: Beige/Orange(Customizable)

电源: AC 220V Power: AC 220V

功率: 200W Power: 200W

重量: 720kg Weight: 720kg 显示器: 43寸触摸屏

Screen size: 43 inch touch screen

物料数量: MAX 180*16=2880件 Tool Quantity: MAX 180*16= 2880 piece

外观尺寸: 1872*804*2012mm Dimensions: 1872*804*2012mm

管理品种: 18*10=180 品种

Management Variety: 18*10 =180 varieties

物料参考尺寸: 最大尺寸-长:140mm 宽:60mm 厚:15mm

Package size: Maximum size - length: 140mm width: 60mm thickness: 15mm

适用场景 / Applicable Scenarios

■ 放置于加工车间现场,管理机床用刀片、铣刀、钻头、丝锥物料

Placed in the workshop site, managing the materials of blades, milling cutters, drill bits and taps for machine tools.

■ 员工随用随取,可多车间同时使用,多柜同时取料

Receive tools on demanding in several workshops from the different cabinets at the same time.

■ 提升车间形象,空闲可展示视频和宣传资料

Enhance the image of the workshop, and display videos and promotional materials at leisure.

■ 容量大,刀具使用量较多(90种以上) Large capacity, more tools used (more than 90 SKUs)



▲ 微存系列——翻转回收柜

Micro Storage Series - Turnover recovery cabinet

基本参数 / Basic Parameter

型号: BSC-TB-HS001 Type no: BSC-TB-HS001

颜 色: 米色/橘色(可定制) Color: Beige/Orange(Customizable)

电源: AC 220V Power: AC 220V

功率: 30W Power: 30W

重量:50kg

Weight: 50kg

显示器:无 Screen size: without

外观尺寸: 600*450*788mm Dimensions: 600*450*788mm

回收仓尺寸: 237*347*345mm(2个) Recycling bin size: 237*347*345mm(2 pieces)

回收方式: 翻转扫描回收/红外感应回收

Recycling bin size: Flip scan recovery/Infrared induction recovery

适用场景 / Applicable Scenarios

■ 机加工现场,刀具回收频繁

At the machining site, tools are frequently recycled.



系统功能 / System Function

无人值守 24小时无人值守,自助领料还料,操作信息详细记录可追溯,物流和信息流实时一致。

Unattended No one stand by for 24H and self-service .Information flow and logistics are generated at the same time.

多元登录 账号密码、刷卡、人脸识别,锁定责任人。

Multi-login Muti-login including password , card and face identification.

智能报表 自动生成领用、未归还、库存、物料上下架等数据,统计分析,实时查看。

Intelligent report Automatically generate data records and statistical analysis reports such as collection, unre-turned, inventory,

loading and unloading of tools, and view them in real time.

限权限额 管理员和员工不同权限,按需领取,可限制领取和未归还数量上限,避免浪费。

定制化需求,对接ERP,MES,WMS等客户系统,数据互通。

Limit permissions and quantities

Receive based on management privileges and limit quantities to avoid waste.

系统接入 System access Customized

Customization requirements, Easy connection with ERP/MES/WMS, etc.

归还审核 分类回收,后台审核,以旧换新,快速凸显异常操作。

Return review Return old for new and intelligent picking, highlight abnormal opeartions.

库存预警 设定安全库存,界面颜色提醒,邮件预警。

Automatic warning and purchasing notice by setting safety stock and email. Automatic warning

格口出料数量可控,避免超限拿取。 数量管控

The quantit can be controlled, so as to avoid over-limit taking. Quantity control

格口定制 抽屉格口大小可以根据客户物料尺寸定制,多种规格任意拼装。

Customized notch Drawer compartment size can be customized according to customer's needs and

various specifications can be assembled arbitrarily.

742 -352-B 222-C _157_ D D

单位:mm

▲ 智存系列——智能可控抽屉柜

Smart Storage Series - Intelligent Controllable Drawer Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-K Type no: BSC-TB-K

颜色: 米色/橘色(可定制) Color: Beige/Orange(Customizable)

电源: AC 220V Power: AC 220V

功率: 100W Power: 100W

重量: 480kg Weight: 480kg 显示器: 21.5寸触摸屏

Screen size: 21.5 inch touch screen

外观尺寸: 主柜尺寸:866*760*1856mm

副柜尺寸:866*760*1856mm

Dimensions: Main cabinet size: 866*760*1856mm Auxiliary cabinet size: 866*760*1856mm

管理品种: 主柜:60(5*12) 副柜:75(5*15)

Management Variety: Main cabinet: 60(5*12) Deputy cabinet: 75(5*15)

常用格口尺寸: E:118*58*28mm D:157*58*28 C:222*58*28 (分格间距28) Package size: E:118*58*28mm D:157*58*28 C:222*58*28

适用场景 / Applicable Scenarios

■ 放置于加工车间现场,管理车间大尺寸刀具,裸装刀具和工具类 Placed in the processing workshop site, managing large-size tools, bare tools

员工随用随取,可多车间同时使用,多柜同时取料

Receive tools on demanding in several workshops from the different cabinets at the same.

★尺寸,高质量刀具管理,格口尺寸可搭配,对包装没有要求 Large size, high quality tool management, matching container size, no requirements for packaging

7 服务热线: 0512-62877712

and tools in the workshop.





▲ 微存系列——暂存回收一体柜

Micro Storage Series - Temporary Storage And Recycling Integrated Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-ZI Type no: BSC-TB-ZI

颜色: 橘色 Color: Orange

电源: AC 220V Power: AC 220V

功率: 50W Power: 50W

重量:约100kg Weight: About 100kg 显示器:无 Screen size: Without

外观尺寸: 545*484*1600mm Dimensions: 545*484*1600mm

管理品种: 100

Management Variety: 100

回收仓尺寸: 400*295*190 mm Size of recycling bin: 400*295*190 mm

回收方式: 翻转扫描回收

Recycling method: flip scanning recycling

适用场景 / Applicable Scenarios

■ 集暂存和回收于一体,需搭配主柜使用

It integrates temporary storage and recycling, and needs to be used with the main cabinet

■ 一盒多片包装刀具,不拆包,管控到每一片的使用

A box of multi piece packaging cutting tools, without unpacking, is controlled to use each piece

■ 暂存物品或需要拆包存放的物料

Temporary items or materials that need to be unpacked and stored



工装量具管理

Tool management

管理痛点/难点

Management pain points / difficulties

1、工具使用频繁,紧急情况找不到需要的工具

Tools are used frequently, and the required tools cannot be found in emergency.

2、员工存取工具时很难认真记录,难以追踪

It is difficult for employees to carefully record and track when accessing tools.

3、量具需定期校准,因数量较多,容易造成超时漏检

The measuring tools need to be calibrated regularly. Due to the large number, it is easy to cause overtime and missed inspection.

解决方案

Solution

1、存取时责任到人,并实时显示前一使用者和使用轨迹

When accessing, the responsibility is assigned to the person, and the previous user and usage track are displayed in real time.

2、检验到期提前预警,后台可一键校验

Early warning of inspection expiration. One click verification is available in the background.

3、多种柜体搭配组合,灵活存储

Multiple cabinet combinations for flexible storage.





系统功能 / System Function

无人值守 24小时无人值守,自助领料还料,操作信息详细记录可追溯

Unattended No one stand by for 24H and self–service .Information flow and logistics are generated at the same time.

多元登录 账号密码、刷卡、人脸识别,责任到人

Multi-login Muti-login including password 、card and face identification.

物料追溯实时显示前一使用者,权责到人TraceabilityTrace the tools and the users

定期校验 显示当前状态,提前检验预警

Periodic verification Display current status, early inspection alert

智能报表 展示所有物料使用轨迹,频次和当前状态

Intelligent report Show the track, frequency and current status of all materials.

格口定制 抽屉格口大小可以根据客户物料尺寸定制,多种规格任意拼装

Customized notch Drawer compartment size can be customized according to customer's material size,

specifications can be assembled at will.

型号 type no	外尺寸(mm) external dimensions	内尺寸(mm) internal dimensions	型号 type no	外尺寸(mm) external dimensions	内尺寸(mm) internal dimensions
0号	150*90*44	130*78*35	6号	318*160*87	291*148*74
1号	220*110*55	195*96*47	7号	283*182*110	260*162*100
2号	240*130*75	212*115*65	8号	352*242*94	325*230*80
3号	180*95*50	155*80*40	9号	352*242*94	325*230*38
4号	185*108*60	155*95*50	10号	352*242*95	325*230*80
5号	204*133*77	175*122*68			

▲ 享存系列——智能抽屉柜

Enjoy Storage Series - Smart Chest Of Drawers

基本参数 / Basic Parameter

型号: BSC-TB-E
Type no: BSC-TB-E

颜色: 橘色 Color: Orange

电源: AC 220V Power: AC 220V

Dower: AC 2200 功率: 100W

Power: 100W

重量: 主柜约145kg 副柜约125kg 显示器: 13.3寸触摸屏

Screen size: 13.3 inch touch screen

外观尺寸: 主柜尺寸:1165*500*1600mm

副柜尺寸:947*500*1600mm

Dimensions: Main cabinet size: 1165*500*1600mm Sub cabinet size: 947*500*1600mm

管理品种: 200

Management Variety: 200

常用格口尺寸: 1号:195*98*48mm 3号:155*82*40mm Size of recycling bin: 195*98*48mm 155*82*40mm

Weight: 145kg/125kg

适用场景 / Applicable Scenarios

■ 现场反复存取小件管理,不限工装,量具治具 Manage small-sized tools including tooling, measuring tools 、jigs and so on .

● 仓库小件管理,取代管理员找料和做账工作 Automaticly receiving tools and making account.





▲ 享存系列——智能工具柜

Enjoy Storage Series - Intelligent Tool Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-D
Type no: BSC-TB-D

颜 色: 橘色/米色 Color: Beige/Orange

功率: 100W Power: 100W 电源: AC 220V

Power: AC 220V 重量: 190kg Weight: 190kg 显示器: 13.3寸触摸屏(可选配21.5寸触摸屏)

Screen size: 13.3 inch touch screen(Optional 21.5-inch touch screen)

外观尺寸: 1114*700*1608mm Dimensions: 1114*700*1608mm

管理品种: 4*10 = 40 品种(可调整)

Management Variety: 4 * 10=40 varieties (adjustable)

物料尺寸: 最大:254*150*340mm(可定制)

Package size: Maximum: 254 * 150 * 340mm (customizable)

适用场景 / Applicable Scenarios

现场大件物料管理,可主副和多种柜体搭配使用

On-the-spot material management, which can be used with main and auxiliary cabinets

■ 管理刀柄、砂轮组等裸装工具,员工随用随取

Manage nated tools such as tool handles and grinding wheels, and receive in need.



▲享存系列——智能格子柜

Enjoy Storage Series - Intelligent Lattice Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-GZ
Type no: BSC-TB-GZ

颜色: 米色 Color: Beige/Orange 电源: AC 220V Power: AC 220V

功率: 100W Power: 100W

重量: 245kg Weight: 245kg 显示器: 13.3寸触摸屏 Screen size: 13.3 inch touch screen 外观尺寸: 1188*1800*440mm

外观尺寸: 1188*1800*440mm Dimensions: 1188*1800*440mm

格口数量: 90格

Number of openings: 90 lattice

格口尺寸: 小格: 95*100*430 (共80格) 大格: 200*120*430 (共10格)

Lattice size: Small cell: 95*100*430 (80 cells in total)
Big grid: 200*120*430 (10 grids in total)

适用场景 / Applicable Scenarios

■ 现场管理大件物品,可直观看到格口是否有料

On-site management of large items can visually see whether there are materials in the grid.

■ 可视化管理,刀杆塞规,劳保用品,消耗品等

Visual management, arbor plug gauge, labor insurance supplies, consumables, etc.







▲智存系列——智能称重柜

Smart Storage Series - Intelligent Weighing Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-P
Type no: BSC-TB-P

颜色: 米白/橘色 Color: Beige/Orange

电源: AC 220V Power: AC220V

功率: 100W Power: 100W 重量: 330kg Weight: 330kg

格口尺寸:可定制 Lattice size: Customizable 显示器: 21.5寸触摸屏

Screen size: 13.3 Inch Touch Screen 外观尺寸: 1680*450*1835mm Dimensions: 1680*450*1835mm

格口数量: 28格

Number of openings: 28 grids

单格称重极限: 20kg

Single cell weighing limit: 20kg

称重精度: ±0.02%FS Weighing accuracy: ±0.02%FS

适用场景 / Applicable Scenarios

■ 体积小、不易清点的物品管理

Management of small and hard to count items

■ 仓库小件的管理,螺丝、五金配件

Management of small parts in warehouse, screws and hardware fittings

■ 线边仓小料的存储发放

Storage and distribution of small materials in line warehouse

■ 智能报表,科学管理

Intelligent report, scientific management



刀具室管理

Tool room management

管理痛点/难点

Management pain points / difficulties

1、刀具发放耗时长,种类繁多,查找不易

It takes a long time to distribute tools, and there are many kinds of tools, so it is difficult to find them

2、零星频繁领取、增加仓库人员工作量

Sporadic and frequent collection, increasing the workload of warehouse personnel

3、单据处理繁琐,报表录入工作量大,容易账实不符

The document processing is cumbersome, the report workload is heavy, and it is easy for the accounts to be inconsistent with the facts

解决方案

Solution

1、可全程无纸化作业,系统报表自动生成,缺料自动预警

Paperless operation throughout the whole process, automatic generation of system reports and automatic warning of material shortage

2、节省人工找料时间成本,操作简单便捷,无障碍上手

It saves the time and cost of manual material finding, and the operation is simple, convenient and accessible

3、智能化的管理模式,即提高企业的自身形象,又节省人员成本,提高工作效率

The intelligent management mode not only improves the self-image of the enterprise, but also saves personnel costs and improves work efficiency









▲ 亮灯拣选智能组合柜

Smart Storage Series - Lighting Picking Intelligent Combination Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-F
Type no: BSC-TB-F

颜色: 橙红 Color: Orange red

功率: 200W Power: 200W

电源: AC220V Power: AC220V

重量: 主柜: 363kg 副柜: 350kg Weight: Main cabinet: 363kg Auxiliary cabinet: 350kg 显示器: 21.5寸触摸屏

Screen size: 21.5 inch touch screen

外观尺寸: 主柜尺寸: 820*762*1915mm

副柜尺寸: 820*762*1615mm

Dimensions: Main cabinet size: 820*762*1915mm

Dimension of auxiliary cabinet: 820*762*1615mm

格口尺寸: 主柜: 330*88*74(一层10个)

副柜: 150*80*74 (一层20个) 16层

Lattice size: Lattice: Main cabinet: 330 * 88 * 74 (10 on the first floor)

Auxiliary cabinet: 150 * 80 * 74 (20 for each floor) 16 floors

适用场景 / Applicable Scenarios

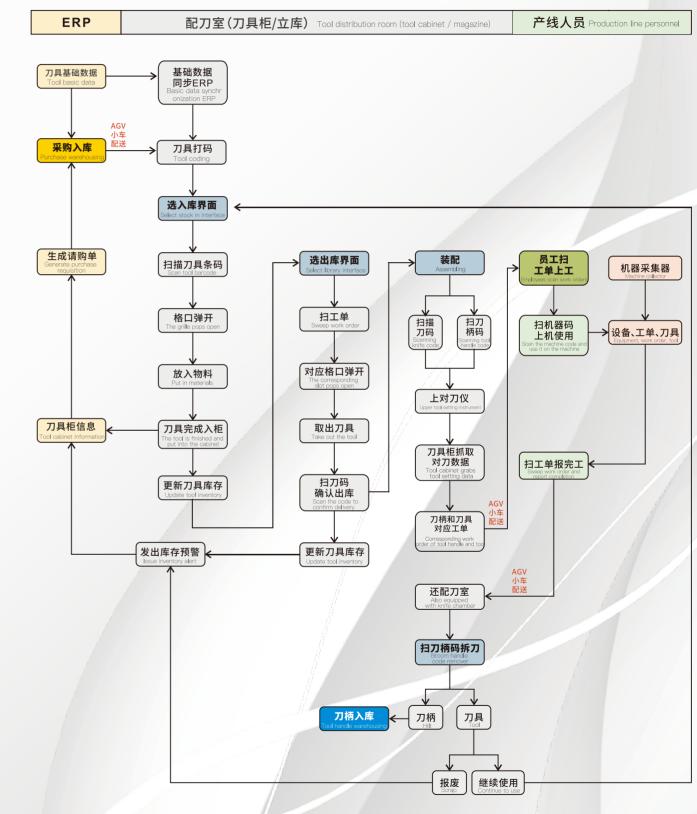
■ 放置于机加工车间、刀具库房、治具库房、量具库房、标准件库房、工具间、装配车间、半成品车间 Placed in machining workshop, tool warehouse, fixture warehouse, measuring tool warehouse, standard parts warehouse, tool room, assembly workshop and semi-finished product workshop.

■ 亮灯拣选,机加工车间五金、刀具仓库管理

Lighting selection, hardware and tool warehouse management in machining workshop

刀具全寿命周期管理流程

Tool Life Cycle Management Process







寄售管理

Consignment management

管理痛点/难点

Management pain points / difficulties

1、客户频繁紧急采购

Customers frequently make emergency purchases

4、客户端份额减少

The client share decreases

2、每月对账耗时耗力

Monthly account reconciliation is time-consuming and labor-intensive

5、客户年度降价压缩利润

The annual price reduction of customers reduces profits.

解决方案 Solution

1、多终端放置客户现场

Multiple terminals are placed on the customer site

4、报表自动生成定期核算对账

Reports are automatically generated, and regular accounting and reconciliation are performed

2、可随时掌控终端多台智能柜情况

It can control the situation of multiple smart cabinets at any time

5、24小时无人值守

Unattended for 24 hours

3、缺料自动预警

Automatic warning of material shortage

6、转换方式应对客户降价要求

3、服务成本高,客户抱怨

customers complain

Service costs are high, and

The conversion method should meet the customer's price reduction requirements.





▲智存系列——寄售型刀具柜

Smart Storage Series-Consignment Type Tool Cabinet

基本参数 / Basic Parameter

型号: BSC-TB-S3

Type no: BSC-TB-S3

颜色: 米白/橘色

Color: Beige / Orange

电源: AC 220V

Power: AC 220V

功率: 100W Power: 100W

Weight: 380kg

重量: 380kg

显示器: 15.6寸触摸屏

Screen size: 13.3 Inch Touch Screen

外观尺寸: 1070*804*2012mm Dimensions: /1070*804*2012mm

管理品种: 8*10=80 品种

Management Variety: 8*10 =80 varietie

物料数量: MAX 80*16=1280件

Tool Quantity: Max 80*16= 1280 pieces

回收仓尺寸: 498*128*425mm Size of recycling bin: 498*128*425mm.

物料参考尺寸: 最大尺寸-长:140mm 宽:60mm 厚:15mm

Package size: maximum size length: 140mm width: 60mm thickness: 15mm

适用场景 / Applicable Scenarios

■ 经销商做客户维护管理

Dealers provide management services for their customers

■ 放置客户现场管理机床用刀片、铣刀、钻头、丝锥等物料

Place the blades, milling cutters, drill bits, taps and other materials used by customers to manage machine tools on site.



设备端界面 / Device Interface

1 多元登陆

账号密码,刷卡,人脸识别

Muti-login

Muti-login including password card and face identification

3 离线支持

设备断网,数据暂存,网络恢复,断点续传

无网状态依旧可进行日常领用作业

Offline Support

Equipment disconnection, data temporary storage, network recovery, breakpoint continuation

Daily collection can still be carried out in the state of no

network

2 领用直达

快:启动领取设备出料,反应迅速无滞后

准:准确筛选所需物料,减免人为失误

Direct collection

Receive quickly and accurately

4 便捷维护

新设备一键激活、更换设备数据一键迁移

Convenient maintenance

New equipment one key activation and replacement of equipment data one click migration

移动端界面 / Mobile Interface

1 通知提醒

设备故障实时推送, 缺料补料信息实时提醒

Notification reminder

Real time push of equipment failure and real-time reminder of material shortage and replenishment information

2 设备查看

设备运行、库存数据随时查看

Device view

Check equipment running status and inventory data at any time

后台管理 / Back-stage Management



多样化运营模式

Diversified operation mode

1 运营模式多样

经销商管理经销商、经销商管理终端客

户、客户自我管理

Diversified operation modes

Dealers manage dealers, dealers manage terminal customers Self management of customers

3 设备管理

设备基础信息查看、运行状态实时监控

Device management

Basic information viewing and real-time monitoring of equipment operation status



财务管理系统

Financial management system

2 财务管理

可根据周、月、季,查看利润情况

自定义结算区间,方便与客户财务核算

Financial management

You can check the profit according to the week, month and quarter Customize the settlement range to facilitate financial accounting with customers

4 报表记录

从刀具消耗情况、员工领用情况等维度分析物料消耗情况、趋势图形化展示,一目了然

Report record

Analyze materials from the dimensions of tool consumption and employee collection

Graphical display of consumption and trend at a glance



仓库管理

Warehouse management

管理痛点/难点

Management pain points / difficulties

1、空间有限 Limited space 2、查找困难 Difficulty to find 3、搬进搬出,费时费力

Moving in and out is time -consuming and laborious 4、盘点耗时

Counting time

解决方案

Solution



管理方式/管理效益:

Management mode / management benefit

1、现有仓库改造成立体仓库

The existing warehouse is transformed into vertical container

2、可系统对接ERP、MES等系统

It can connect ERP, MES and other systems

3、扫描工单,系统自动出料、扣账

Scan the work order, and the system will automatically issue materials and deduct accounts



管理方式/管理效益:

Management mode / management benefit

1、定制化立体仓库,管理仓库所有物料

Customized automatic stereoscopic, manage all materials in the warehouse

2、根据现场尺寸和承重要求,量身定制

According to the site size and load-bearing requirements, tailored

3、空间高度4M以上,使用性价比更高

The space height is more than 4m, which is more cost-effective





基本参数 / Basic Parameter

型号: SLIM/MA/MC/MS/MX/ML SLIM/MA/MC/MS/MX/ML Type no 托盘载重: 250-990kg 250-990kg Pallet load 货柜高度: 2,600mm-18,000mm Container height 2,600mm-18,000mm

200mm

Container height increase 25mm 托盘存储调节幅度: Pallet storage adjustment range

货柜高度增加幅度:

托盘宽度: 1500mm至4100mm 1500mm to 4100mm Pallet width

托盘深度: 654mm至857mm Pallet depth 654mm to 857mm

托盘高度: Tray height

存储物料最大高度: Maximum height of stored

materials

托盘装载货物净重: Net container loading capacity

货柜净装载能力: Net container loading capacity

货柜总装载能力: Total container loading capacity

存取能力: Access capability

存取口类型: Access port type Up to 120 pallets / hour (depending on the container) Depending on the setting) extraction or tray double extraction

最高120个托盘/小时(视货柜置而定)

内置式存取口或外置式存取口 Built in access port or external access port

45mm/70mm/120mm

45mm/70mm/120mm

250-500-750-1000kg

250-500-750-1000kg

提取或托盘双提取

695mm

695mm

60,000kg

70,000kg 70,000kg

60,000kg

产品特色 / Product Features

11 充分利用垂直方向空间、节省地面面积、洁净、安全、可靠、高效 Make full use of vertical space, save floor area, be clean, safe, reliable and efficient.

2 存取能力最大可达 120个托盘/小时 The access capacity can be up to 120 trays/hour.

3 托盘间距可调 预塑化面板 Preplasticized panel Tray spacing is adjustable.

适用场景 / Applicable Scenarios

1 地面面积小,高度高的场地 Site with small ground area and high height

3 快速,高流量要求 Fast, high flow requirements

5 不限行业 Unlimited industry

4 V形钢丝皮带 自支撑钢结构

V-shaped steel belt Self-supporting steel structure

5 友好的用户界面 触摸屏操作控制台 Touch screen operation console

可实现完整备份或增量备份

Friendly user interface

6 数据库自动维护,高级数据库备份管理,

Automatic database maintenance, advanced database backup management,

Full backup or incremental backup can be realized.

2 洁净度要求高的环境 Environment with high cleanliness requirements

4 存储要求防尘、防潮。 The storage shall be dust-proof and moisture-proof.

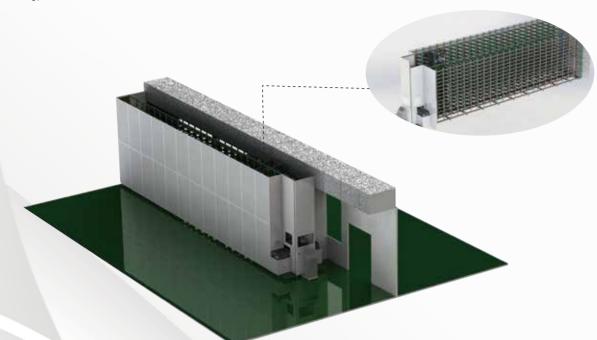
案例 / Customer cases











▲ 立体仓库

Stereoscopic Warehouse

基本参数 / Basic Parameter

最大载荷: 50kg Maximum load

高度: 13m Heiaht

立柱: 铝合金 Column Aluminium alloy

货物尺寸: W 360-600mm Cargo size D 500-1000mm

H 100-600mm

运行速度: 240m/360mm Running speed

3.0m/s 运行加速度(最大): Lifting acceleration

80m/min 起升速度:

Fork speed 起升加速度: 1.6m/s

Fork acceleration

货叉速度: 60m/min Fork speed

货叉加速度: 1m/s Fork acceleration

存取机构(LHD):

单深,双深 Access mechanism (LHD) Single depth, double depth

存取机构数量:

Number of access institutions

驱动方式:

Driving mode Synchronous belt, friction driven 70m(同步带)

巷道最大长度: Maximum length of roadway

70mSynchronous belt

工作温度: Operating temperature

0-40℃ (可选-25) 0-40 ° C (optional -25)

5% to 90%无凝露

同步带, 摩擦驱动

1/2

环境相对湿度: Ambient relative humidity

No condensation 噪音: 76dB(A)

巷道宽度: Roadway width

Noise

D+160mm(Min.900)

第一层尺寸: 450 First floor size

H+270 (Min490) 最上一层高度尺寸: Height dimension of the top floor

货架公差: 货架等级: 200 控制形式: C Shelf level: 200 control form: C Shelf tolerance

Be a good helper for intelligent warehousing

系统功能 / System Function

1 指令管理 Instruction management

4 数据采集 Data collection

7 异常处理 Exception handling 2 作业调度 Job scheduling

5 故障报警 Fault alarm

8 用户权限 User permissions 3 实时监控 Real time monitoring

6 运行日志 Operation log

9 客户定制化 Customization

产品特色 / Product Features

1 轻型堆垛机,重量轻、产品适用行业广, 水平运行速度最高可达到360m/min

Light stacker crane, light weight, wide range of products, The horizontal operating speed can reach up to 360m/min

3 模块化设计,总重轻,噪音低,震动小,低扭转,集成导轨 Modular design, total weight, low noise, low vibration, low torsion, 2 高度范围:2.5-13m Height range: 2.5-13m

4 结构简洁美观,使用简便,维护方便。适用于高流量要求场合

The structure is simple and beautiful, easy to use and easy to maintain. Suitable for high flow requirements

适用场景 / Applicable Scenarios

1 轻载,小尺寸的货物 Light load, small size cargo

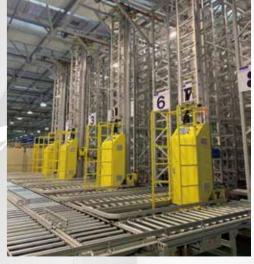
3 快速,高流量要求 Fast, high flow requirements 2 洁净度要求高的环境

Environments with high cleanliness requirements

4 地面承载小,高度低的场合,可适应于多层厂房楼面使用。 The ground bearing is small, the height is low, and it can be adapted to the use of multi-storey factory floor.

案例 / Customer cases





06

客户案例

Customer Cases





客户案例一 刀具室智能管理:F系列智能工具柜

Customer case 1

Intelligent tool room management: F series intelligent tool cabinets

某台系企业、半导体行业

A Taiwan enterprise, semiconductor industry







客户的痛点难点

Customer pain points and difficulties

1、智能化车间改善有要求

Requirements for improvement of intelligent workshop

2、加工铝件,一只刀具可用半年--两年不等,不易追踪寿命

For processing aluminum parts, one tool can be used for half a year to two years, which is not easy to track the service life

3、客户稽核要求追溯使用轨迹,无法查询

The customer audit requires tracing the use track, which cannot be queried

4、对应不到产品,成本核算不清楚

There is no corresponding product, and the cost accounting is not clear

实现价值

Realize value

1、一体化设计,美观大方

Integrated design, beautiful and elegant

2、管理到每一支刀具实时履历和剩余寿命

Manage the real-time resume and remaining life of each tool

3、精准核算每一个工单、每一个产品的刀具消耗成本

Accurately calculate the tool consumption cost of each work order and product

4、充分利用刀具,每支刀可反复多次使用

Make full use of the cutter, each cutter can be used repeatedly

5、对接企业MES和ERP系统,数据实时互通

Connect enterprise MES and ERP systems, and real-time data exchange

线边仓智能管理:螺旋C柜+暂存回收柜

Customer case 2

Intelligent management of line side warehouse: one main and one pair of spiral cabinets + temporary storage and recycling cabinets

华北区域某德系企业、仪器仪表行业

A German company, instrumentation industry in North China







客户的痛点难点

Customer pain points and difficulties

1、车间与仓库不在同一栋厂房,领用耗时长--领料一次约30分钟 The workshop and warehouse are not in the same building, so it takes a long time to collect materials-about 30 minutes at a time

2、夜班领料频繁,必须安排夜班仓库值班

The night shift picking is frequent, and the night shift warehouse must be arranged to be on duty

3、报表制作繁琐,需要仓库安排助理登账

The preparation of statements is tedious, and it is necessary for the warehouse to arrange assistants to book accounts

4、刀具种类过多、盘点查找不方便;经常紧急采购

There are too many types of tools, which makes it inconvenient to check and find; Frequent emergency procurement

5、呆滞库存较多,流转率低

There are more sluggish stocks and low turnover rate

实现价值

Realize value

1、线边放智能柜, 领用归还快达10秒

Put smart tool cabinet at the edge of the line, collect and return quickly 10 seconds

2、24小时无人值守, 随用随取

24-hour unattended, on-demand

3、自动记录,报表自动生成

Automatic recording and report generation

4、低于安全库存量自动预警,避免生产断料

lower than the safety stock automatic warning, to avoid production cut-off

5、人力+采购量+紧急采购+呆滞止损≈20万+/年

Manpower+purchase volume+emergency purchase+sluggish stop loss ≈ 200,000+/year

Customer case 3

各广系例二 线边仓智能管理:螺旋柜一主一副+暂存回收柜 of spiral cabinets + temporary storage and recycling cabinets

某美系企业、医疗行业

An American enterprise and medical industry







客户的痛点难点

Customer pain points and difficulties

1、传统柜体配置,与公司整体形象不搭

The traditional cabinet configuration does not match the overall image of the company

2、客户稽核要求追溯使用轨迹,无法查询

The customer audit request traces the usage track and cannot be queried

3、仓库有三千多种刀具、常用一千种左右、物料大小不一、储存密集

There are more than 3,000 kinds of tools in the warehouse, and about 1,000 kinds of tools are commonly used. The materials are of different sizes and the storage is intensive

4、刀片拆包按"片"发放、且不定时领取、仓管需要另外记录使用单位、负担加重

Blades are unpacked and issued according to "pieces", and they are collected from time to time. The warehouse management needs to record the user unit separately, which increases the burden

5、为避免夜班和频繁领料,每个车间都有小仓库,且需专人管理

In order to avoid night shifts and frequent picking, each workshop has a small warehouse, which needs to be managed by special personnel

实现价值

Realize value

1、定制外形配合企业LOGO色

Customized shape with corporate LOGO color

2、定制领料流程,支持通过GZ号即物料号领取,支持从BOM单中领取

Customize the picking process, support receiving through GZ number, that is, material number, and support receiving from BOM list

3、刀具柜、虚拟仓、暂存柜统一管控出料,虚拟仓打印凭条去仓库领取

Tool cabinets, virtual warehouses, and temporary storage cabinets are uniformly controlled and discharged, and virtual warehouses print receipts and go to the warehouse to collect them

4、拆包的,反复领用的可存入暂存柜中集中管理

Unpacked, repeatedly used can be stored in the temporary storage cabinet for centralized management

5、刀具领取效率提高,晚间无人值守节省仓管人力,刀具采购量下降20%

The efficiency of tool collection is improved, unattended at night saves warehouse management manpower, and the amount of tool purchases decreases by 20%

线边量具管理:抽屉CT+D系列智能柜 Line edge measuring tool management: drawer CT+D series smart cabinet

Customer case 4

某德系企业、热流体行业

A German enterprise, thermal fluid industry







客户的痛点难点

Customer pain points and difficulties

1、量具室管理所有量具,专人记录发放,对人员要求较高,难以及时准确登记

The measuring tool room manages all measuring tools, and special personnel are assigned to record and distribute them. It is difficult to register accurately and timely because of high requirements for personnel

2、量具使用频繁, 夜班领取无人监管, 紧急情况找不到需要的量具

The measuring tools are used frequently, and the night shift collection is not supervised, and the required measuring tools cannot be found in emergency

3、量具归还靠人力追踪,到期漏检验,盘点困难

The return of measuring tools is tracked by manpower, and the inspection is missed when due, which makes the inventory difficult

实现价值

Realize value

1、 配备抽屉+格口智能量具柜,格口尺寸多种组合

Equipped with drawer+intelligent measuring tool cabinet with multiple combinations of grid sizes

2、 员工人脸识别或账号密码登录, 选中量具型号, 格口自动弹开, 节省查找时间

Employee face recognition or account password login, select the measuring tool model, and the grid automatically pops up, saving search time

3、 实时显示前一使用者, 方便查找和追溯

Real time display of the previous user, convenient for searching and tracing

4、 管理员可根据物料的送检周期和上次送检日期, 列出待送检列表

The administrator can list the materials to be inspected according to the inspection cycle and the last inspection date

5、 存取记录自动生成, 可查看领料记录、补料记录等

The access record is automatically generated, and you can view the picking record, replenishment record, etc

客户案例五

Customer case 5

线边量具智能管理: D系列智能工具柜 Intelligent management of line edge measuring tools: D series intelligent tool cabinet

某内资企业、刀具行业

A domestic enterprise, cutting tool industry







客户的痛点难点

Customer pain points and difficulties

1、智能化车间改善有要求

There are requirements for the improvement of intelligent workshops

2、损坏找不到责任人, 多次重复购买

The person responsible for the damage cannot be found, and the purchase is repeated many times

3、现场使用随意,手工登记,登记不到位;关键时候找不到要用工具

The on-site use is random, manual registration, and registration is not in place; the tools to be used cannot be found at critical times

实现价值

Realize value

1、定制外形组合,柜体内统一存放,美观大方

Customized shape combination, unified storage in the cabinet, beautiful and generous

2、多种格口大小,物料分类专属收纳,大屏幕搜索智能查找

Various grid sizes, exclusive storage for material classification, intelligent search on large screen

3、刷卡+账号密码+人脸识别登录;绑定人员,部门,设置领用权限,方便追朔

Swipe card + account password + face recognition login; bind personnel, departments, and set access rights, which is convenient for tracing

客户案例六 仓库管理:立体库 Customer case 6

Warehouse management: Stereoscopic warehouse

某上市企业、刀具行业

A listed enterprise and tool industry



VS



客户的痛点难点

Customer pain points and difficulties

1、棒料仓库种类繁多,空间不够,管理繁琐

There are many kinds of bar stock warehouses, and the space is not enough. The management is cumbersome

2、棒料密度大,配货搬运人力消耗高

High bar density, high labor consumption for goods distribution and handling

3、 专人单据处理, 容易出错

Documents are handled by specially assigned person, which is easy to make mistakes

实现价值

Realize value

1、堆垛机立体库统一管理,充分利用高度空间

Stacker stereo library unified management, make full use of height space

2、自动出料,省去人工查找搬运

Automatic picking, search and transportation manually

3、对接MES和ERP, 扫描单据即可自动出入库

Connect MES and ERP, and scan the documents to automatically enter and exit the warehouse

4、出料口配备激光指引和称重辅助,更精准配货

The discharge port is equipped with laser guidance and weighing aid, which makes more accurate distribution

5、无纸化办公,操作简单便捷

Paperless office, simple and convenient operation

客户案例七

仓库+线边一体化管理:立体库+智能刀具柜组合

Customer case 7

Warehouse+line edge integrated management: stereo warehouse+intelligent tool cabinet combination

某军工企业

A military enterprise









客户的痛点难点

Customer pain points and difficulties

1、军工企业,人工管理帐不符实

The manual management accounts of military enterprises are inconsistent with the facts

2、仓库和现场脱节,导致生产断料

The warehouse is disconnected from the site, resulting in production material interruption

3、呆滞库存多,无法—体化管理

Too many stale stocks to be managed in an integrated way

实现价值

Realize value

1、现场刀具柜+仓库立体货柜一体化管理,充分利用空间,客户现场整洁一新

On-site tool cabinet+warehouse three-dimensional container integrated management, make full use of space, and the customer site is clean and tidy.

2、管理员实时查询所有的库存、领用信息、领用数据、实时扣减数据互通、账目清晰

The administrator can query all the inventory, collecting information, collecting data and real-time deduction data in real time, and the accounts are clear.

3、刀具柜库存达到预警值推送给立体库实时补料

When the tool cabinet inventory reaches the warning value, push it to the stereo warehouse for real-time replenishment

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客户案例八

Customer Case 8

线边小零件管理: 称重式智能工具柜 Edge widget management: weighing intelligent tool cabinet

某美系企业、医疗行业

An American enterprise and medical industry







客户的痛点难点

Customer pain points and difficulties

- 1、说明书种类较多、每天使用量大;车间5S整理造成负担 There are many kinds of instructions, and the daily usage is large; 5S burden
- 2、临时更换产品,需要搜寻说明书;样式多不易找 For temporary replacement of products, you need to search for instructions; hard to find
- 3、想要管控好需要专人负责,增加工作量 If you want to control it well, you need someone to take charge of it and increase the workload
- 4、库存数量不容易管控,造成紧急采购 Inventory quantity is not easy to control, resulting in emergency procurement

实现价值

Realize value

- 1、柜体内统一存放,美观大方
 - The cabinet is stored in a unified way, which is beautiful and generous
- 2、系统自动匹配查找,选择要领的物料,格口打开,取走物料,操作简单便捷 The system automatically matches and searches, selects the essential materials, opens the grid, and takes away the materials. The operation is simple and convenient
- 3、系统根据物料单重自动扣减库存,报表自动生成 The system automatically deducts the inventory according to the material weight, and the report is automatically generated
- 4、低于安全库存量自动预警,避免生产断料

When automatic warning lower than the safety stock, to avoid production cut-off

合作伙伴 / PARTNERSHIP





三一集团









徐工集团

豪迈集团

万向集团

柳工集团





圣万提

D兼容例 77

威孚集团

长城浸车

长城汽车





格致汽车

中国重汽





中国航天



大金航太



无锡航亚





江西信航

长征火箭





中国兵器





西安飞豹



航翼



蜂鸟



千机智能

电子行业 Electronic



富士康





安波福



绿点

巴奥米特





立讯精密 经纬电子





史赛克



创辉







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