

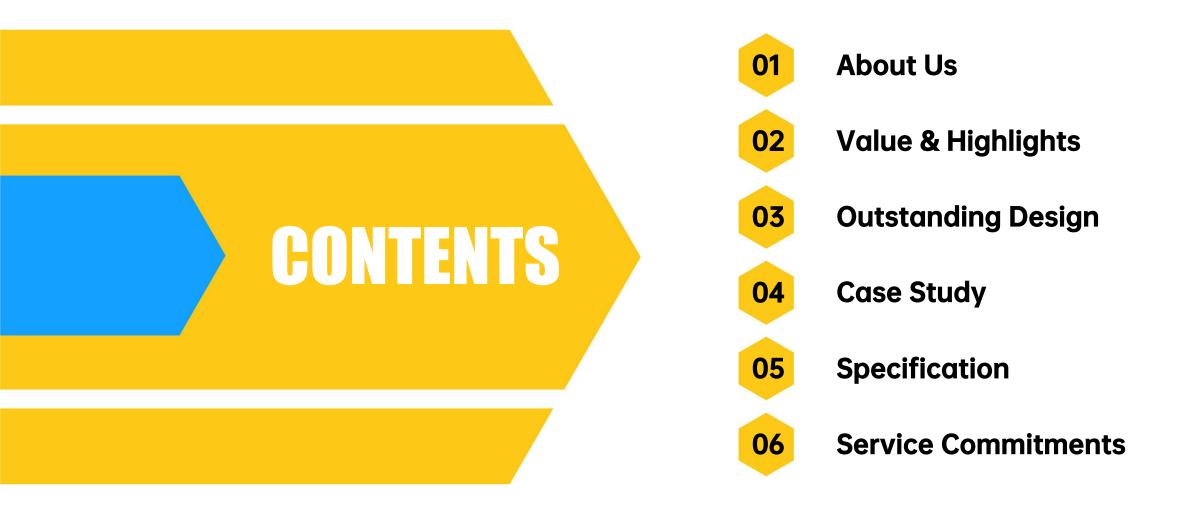
Smart Bee Box Easy CNC Tool Management

- Less Labor
- Cost Saving
- Auto-generate Report



smartbeebox.com SHENZHEN DANFOO TECHNOLOGY CO.LTD







About Us

SMART BEE BOX, EASY CNC TOOL MANAGEMENT



Company Introduction

Shenzhen Danfoo Technology Co., Ltd. (SmartBee) was established in 2015 and is a technology-driven enterprise focused on providing **digital solutions for the machining industry**.

Headquartered in Shenzhen, it has a subsidiary in Suzhou and offices in Ningbo, Qingdao, Xiamen, Xi'an, Zhengzhou, Weihai, Tianjin, Jinan, and the Sichuan-Chongqing region.

Smart cabinet series are hot-selling in over 30 countries and regions worldwide.

SmartBeeBox—Automated management of cutting tools, tools, and materials saves labor, costs, and effort;

SmartBee Machinery Cloud — Networked machines and cloud-based

workshop management enhance equipment utilization;

SmartBee MES—Transparent and visualized work order progress

management;

SmartBee iStore Intelligent requisition and digital replenishment.



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ecification

Cross(IT + Machinary) Team with high innovation





Huawei supply chain expert(10 years) Huawei(Brasil) ERP launching team head



Wang XueJun Solution Director

Tsinghua Univ. Bachlor Chief Engineer of Dahe Machine VP of LG MAZAK 30 years machinary industry experience



Chen Yan GM, Product manager, Sales director

Jilin Univ. Bachlor Tsinghua Univ. Mastor Huawei product manager 12 years sales experience IT+ Machinary backgroud



Huang Hua R&D Director

Former Huawei R&D manager(7 years) heading development team of 100+ people in Huawei



Zhao JingLong VGM, Product manager

Tsinghua Univ. Bachlor Paris Institute of Technology Mastor TUS HOLDING product manager 6 years SME solution design experiece

Easy CNC Tool Management

Case Study

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Value & Highlights

Traditional Tool Management upgrading towards Digital Tool Management Practical Features Enables Effecient Tool Management



SMART BEE BOX, EASY CNC TOOL MANAGEMENT

Smart Bee Box A smart cutting tools management system designed for machining plants.

24 hour unattended

Auto-generate Report

Save 20% Tool Cost

Easy to Use, Friendly Experience





Outstanding Design

Case Study

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Warehouse + Administrator

High cost, Lacking of night shift management



One tool cabinet is enough

One cabinet manages all the tools Placing neighbor by CNC machine, take tools in 10 seconds





Outstanding Design



Unable to accurately prepare tools. Unable to replace tools when if the admin is off-duty.

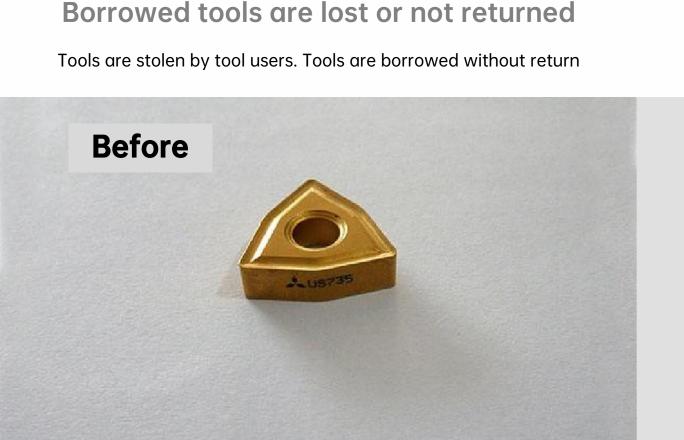
24-hour unattended Tool Pick up/Return integrated

Flexible for workers to get, return, and sort the tools. Workers can get the tools according to the orders set in SMARTBEE, even the admin is off duty.



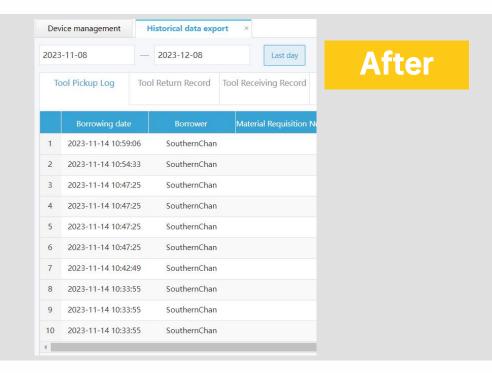


Outstanding Design



Auto Recording, Tool Tracking

Automatically record the behaviors of Take & Return. Any single tool must be returned







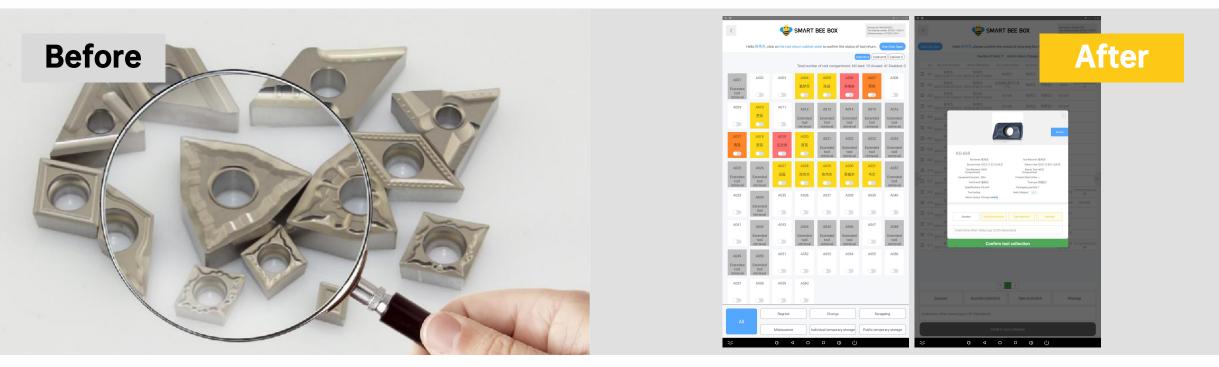


Wasting of Tools

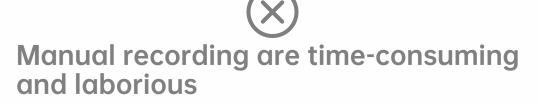
Many semi-new tools are found in the garbage.



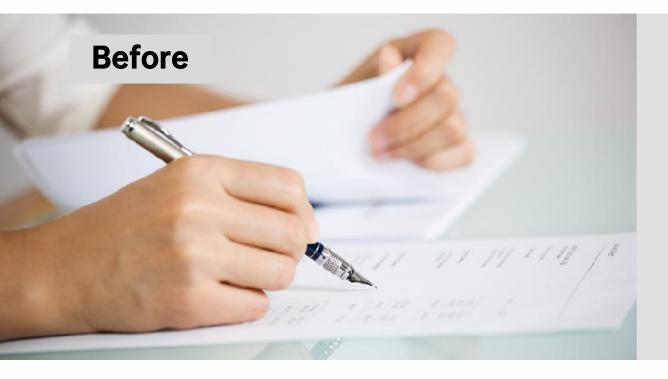
Tracking all the returned tool, say no to tool wasting.



Outstanding Desigr



Recording through handwriting is laborious and inaccurate.



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Multidimensional statistical report

All data is recorded by the system automatically. Real time generation of multi-dimensional statistical reports, accurate cost analysis, one click to export data.





About Us

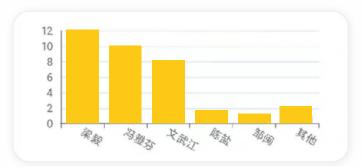
Outstanding Design

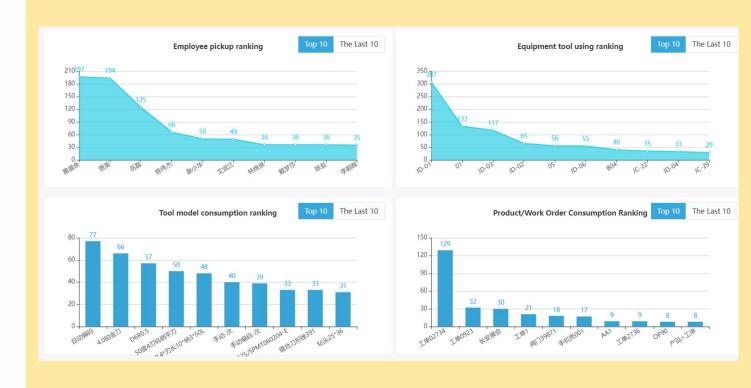
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Auto Statistic & Ranking

Automatically generate the analysis and ranking of irregularities.

Using digital system to monitor and regulate employee behavior







Outstanding Design

Case Study

Specificatio

Analyzing Tool Cost

Visually view the proportion of tool consumption by personnel/tools/equipment







Case Study

specification

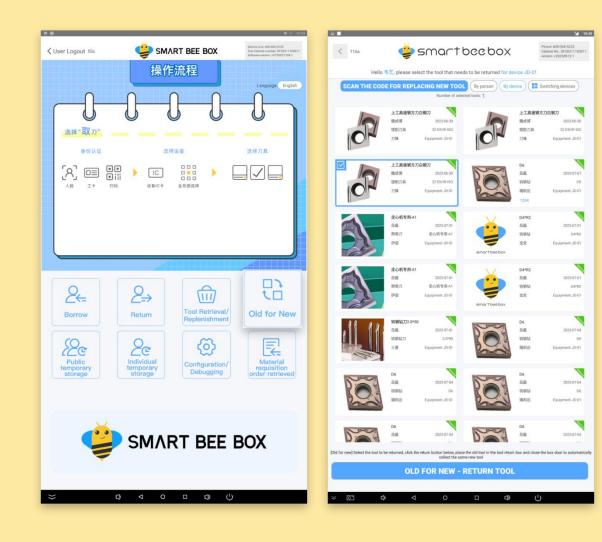
Old for New

Employee self help "Old for New" Easy to operate and auto recording

Permission settings: Operators can only exchange old for new, and technicians can get any tools.

Self service: Without admin, employees can login via Face ID then operate.

Report accuracy: Automatically generate old for new reports



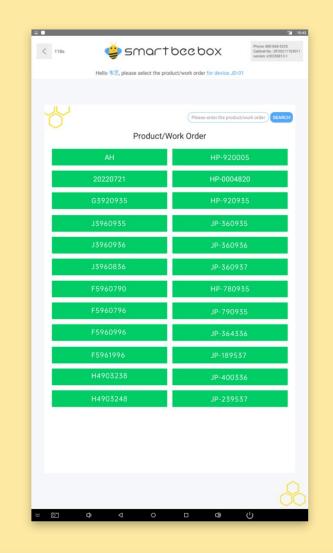
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Binding tool list with product (production process)

The users can only take the tools corresponding to the product or work order they chose.

Manage your tools in a more accurate and efficient way. Auto statistic tool cost of a specific product.



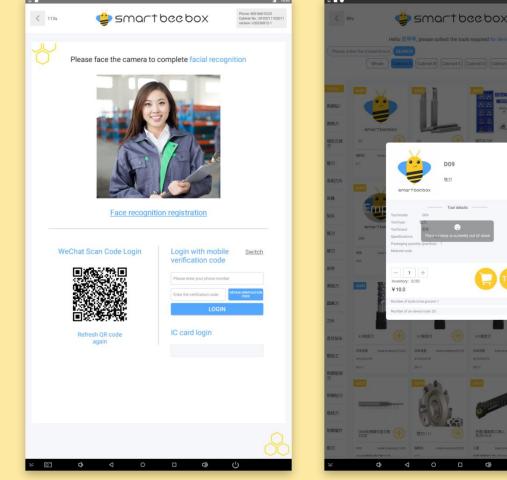


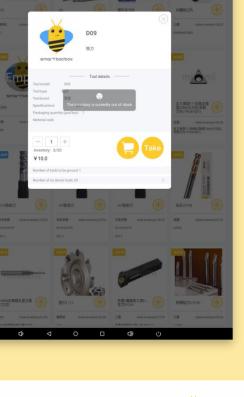
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Face Recognition + **Authority Control**

The user can no longer take the tool if the number of tools he took reaches the upper limit (can be set by admin). Different group, different tool authority

Urge employees to return cutters in a timely manner, Improve the level of refined management in the workshop to prevent the stagnant tools.







Outstanding Design

One cabinet for multiple Usages

Public Safekeeping: Traceable usage of public goods

Personal Safekeeping: Greatly convenient for employees to store measuring tools, calipers, and other items

Turning the returning cells to retrieving cells:

Big size cutting tools/materials can be placed in the returning boxes. The requisition status can be automatically recorded



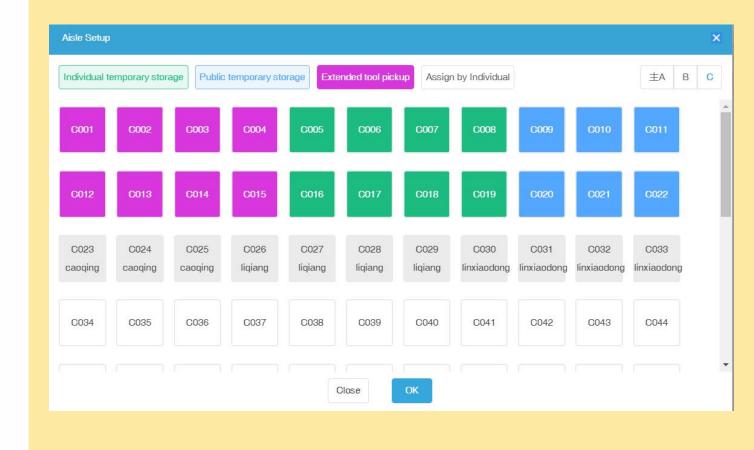


Case Study

Extension function of cutting tool receiving cells

According to the needs of tool management, the tool admin can set the tool receiving cells as retrieval cells at any time.

It is conducive to maximizing the management function of the tool cabinet, More flexible and variable tool management, Maximizing tool management value at low cost.



Easy CNC Tool Management 🛛 🤤 19

Outstanding Design

Case Study

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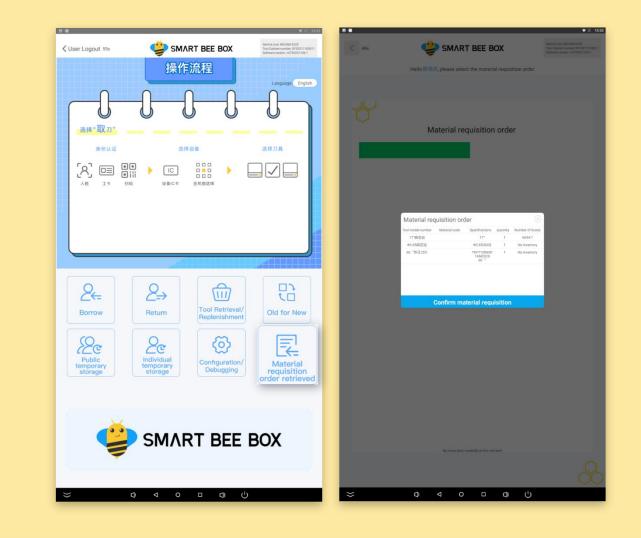
Service Commitment

Picking list of tools

Employees can get cutting tools based on the pick list which set by the admin. Get multiple cutting tools in one time, fast and accurate.

It is beneficial for greatly improving the efficiency,

Effectively preventing employees from randomly picking and wasting .



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Case Study

Inventory alert

The system automatically and regularly pushes the inventory status of cutting tools via e-mail. This benefits admins to apply for the replenishment of inventory in time, ensure the production progress.

Email notification:	422958702@qq.com;1130126706@ qq.com;yingying@danfoo.com;909 082618@qq.com;15876350030@16	*
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Outstanding Design

Case Study

Fully Automatic Tool Lifespan Statistics

 \cdot Without any additional operations, the tool's lifespan is automatically collected upon its return.

 \cdot With the capability to perform multi-cutting work on various materials, the tool achieves precise multi-lifespan accumulation.

Tips: Auto lifespan of tool based on Machinery Cloud(Machine Data Collection System), and works on Model X.

Traditional Tool Lifespan statistics :

Each operator is required to manually record the lifespan of individual tools. The admin must gather all data and manually input it into the Excel file.

Laborious and inaccurate!

				et_acquisi 0.0%	2023-11-21 1 jiayin Equipment B M2*0.4 tion_life 66 33.0%	Jufeng	Machinery ging quantity: 1	
Tool Hom	ne Page	fe Management ×						0
2023-11-2	29 — 202	3-12-05 Last day	Last seven days	Last one month	Please enter the too	l code Query		Export
Automatic statist		al code Old Knife istics Collection Reco	Old Knife rd Replenishment Record					
	code	Tool model	Tool category	Tool brand	Tool specifications	Material code	service life (%) Tool	status Operation
1 20	0231115000004	Extrusion tapM2*0.4*50L	threading tool	Jufeng Machinery	M2*0.4*50L	0%	sa	fety View Details
2 20	0231115000003	Extrusion tapM4*0.7*100L	threading tool	Jufeng Machinery	M4*0.7*100L	-	95% dar	nger View Details
3 20	0231115000002	Ball toolM4*R2*50	Boring tool	Xinke Hardware Grinding	R2.0*D4*50L*2F		50% sat	fety View Details
4 20	0231115000001	Ball toolM4*R2*50	Boring tool	Xinke Hardware Grinding	R2.0*D4*50L*2F		80% sa	fety View Details
5 20	0231114000003	Extrusion tapM2*0.4*50L	threading tool	Jufeng Machinery	M2*0.4*50L		60% sat	fety View Details
6 20	0231114000002	Extrusion tapM2*0.4*50L	threading tool	Jufeng Machinery	M2*0.4*50L	-	80.5% cau	Ition View Details
7 20	0231114000001	Extrusion tapM2*0.4*50L	threading tool	Jufeng Machinery	M2*0.4*50L		50% sa	fety View Details
8 20	0231111000001	Ball toolM4*R2*50	Boring tool	Xinke Hardware Grinding	R2.0*D4*50L*2F	33.3	33% sa	fety View Details
9 20	0231110000002	Extrusion tapM4*0.7*100L	threading tool	Jufeng Machinery	M4*0.7*100L	-	110% dar	nger View Details
10 20	0231110000001	Extrusion tapM4*0.7*100L	threading tool	Jufeng Machinery	M4*0.7*100L	-	91.67% dar	nger View Details
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Prioritizing Semi-used Tools

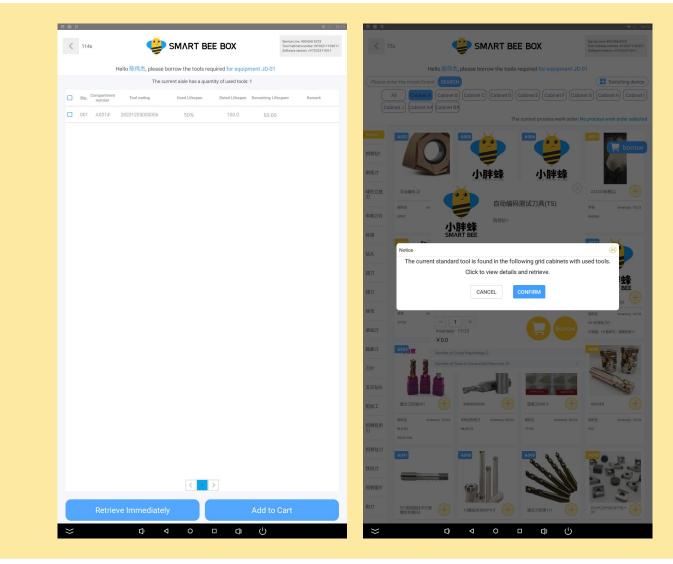
•Replenish the utilized tools in the side box, clearly distinguishing them from the new tools.

•Prioritize semi-used tools by displaying a pop-up when there is a semi-used tool of the selected model in the side box.

•Further reduce tool costs by an additional 10%.

Traditional Management:

Operators prefer utilizing new tools and often discard semi-used tools, even if they are still functional.



Tips: works on Model X.

Case Study

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Outstanding Design

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Outstanding Design

Master Designed

Designer : Liu Yang Industrial Design Dept. Tsinghua Univ. Worked in LG、GALANZ、TCL

Awarded : DDF Top 10,iF Industrie Forum Design,Reddot,GoldenPin Design Award



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Case Study

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Customer Cases (from Sep. 2021 till NOW)



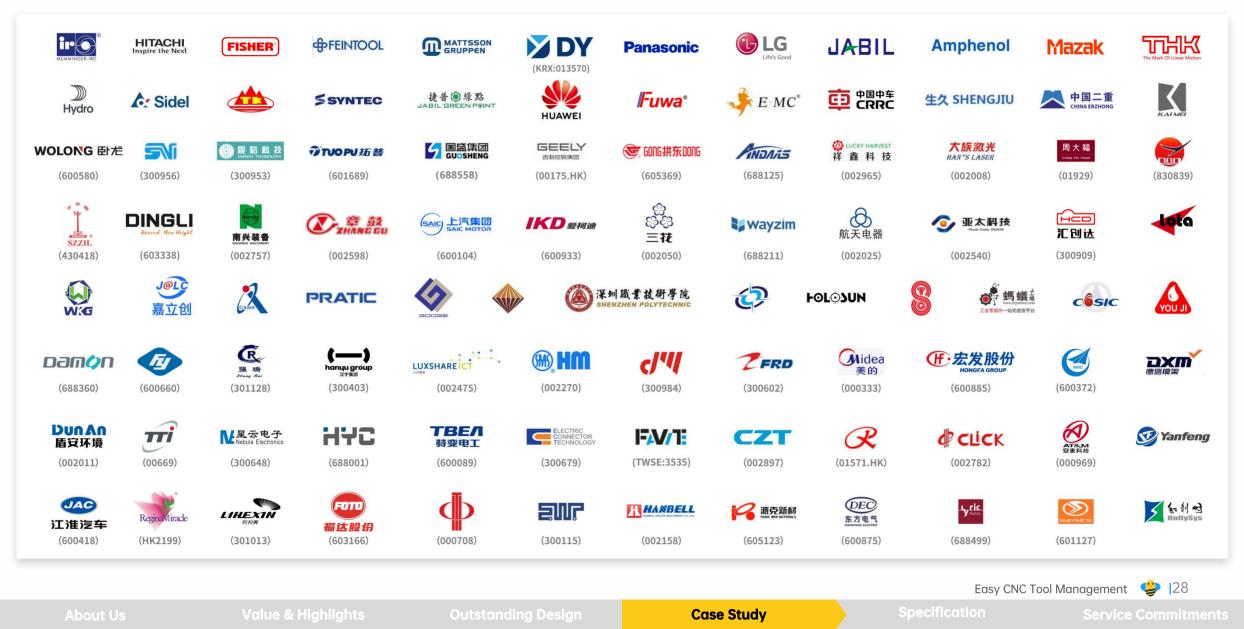
200+ Cities

200+ Listed enterprises

6000+ Customer Served

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Common Choice for Listed Companies and Leading Companies





mechanical equipment

Benchmark Cases



It's very convenient to use this, collecting cutting tools and cost analysis I can handle alone.

- Warehouse clerk Miss Li

LG Chemical: How to take the cutting tool and return it efficiently in one minute?

Customer Pain Points

It takes a long time to distribute cutting tools. In order to keep up with the production schedule, employees often need to run all the way to the warehouse to register the cutting tools. The administrator checks the data every day, and it takes a lot of effort to analyze the daily incoming and outgoing of multiple tools.

Smart Bee Solution

By placing the SBB beside the production line, employees can quickly and easily receive the cutting tools. The SBB system automatically records the types of tools received, the number of tools received, and the people who received them, and generates analysis reports in real time.

Values

The efficiency of the employees to receive cutting tools is greatly improved. The administrator could obtain the real time tools inventory with one click of the mouse. SBB could reduce the amount of tools used.

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Benchmark Cases

Amphenol Kaijie Technology Co., Ltd 💒 🚆

Amphenol Group was founded in 1932 and entered China in 1984. Amphenol implements the strategic policy of globalization and is a leading supplier in the global telecom market, mobile phone market and data exchange market.

Ampheno



This face recognition is very good, is to give them a little trouble when recording the face.

> ---Workshop Supervisor Supervisor Liu

Amphenol Corporation: How to manage valuable cutting tools?

Customer Pain Points

Hand-written tool collection information, No administrator in the evening shift, the administrator needs to prepare the cutting tools in advance before the end of the day shift. As most of the cutting tools are expensive, in order to prevent wastage of cutting tools, the administrator will control the number of receiving cutting tools. but in case of emergency, the staff can only suspend production if they cannot get the cutting tools in time.

Smart Bee Solution

The tool locker is unattended 24 hours a day, so employees can take it as they go. The SBB system records real_x0002_time tool borrowing and returning information, and automatically tracks the destination of tools to eliminate random waste of tools.

Values

Administrators do not need to prepare and distribute cutting tools for the night, as well as manual registration. The system can export all employees' tool collection information with one click. No more worrying about the impact on the production when employees break their cutting tools at night.

mechanical equipment

About U

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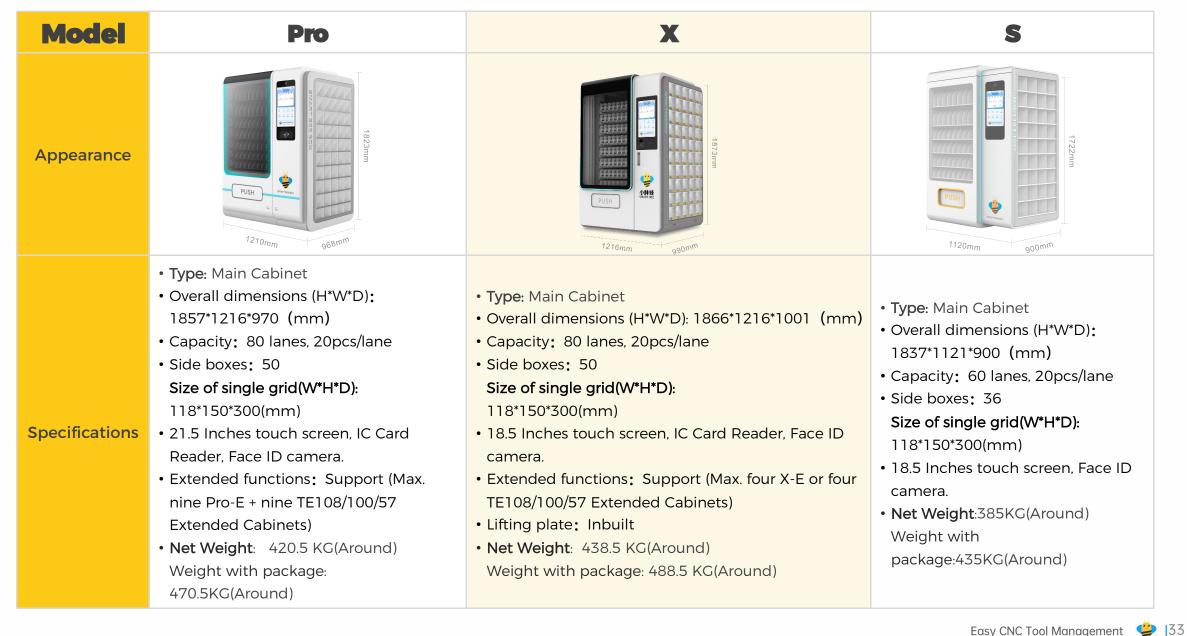


Specifications

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Specifications



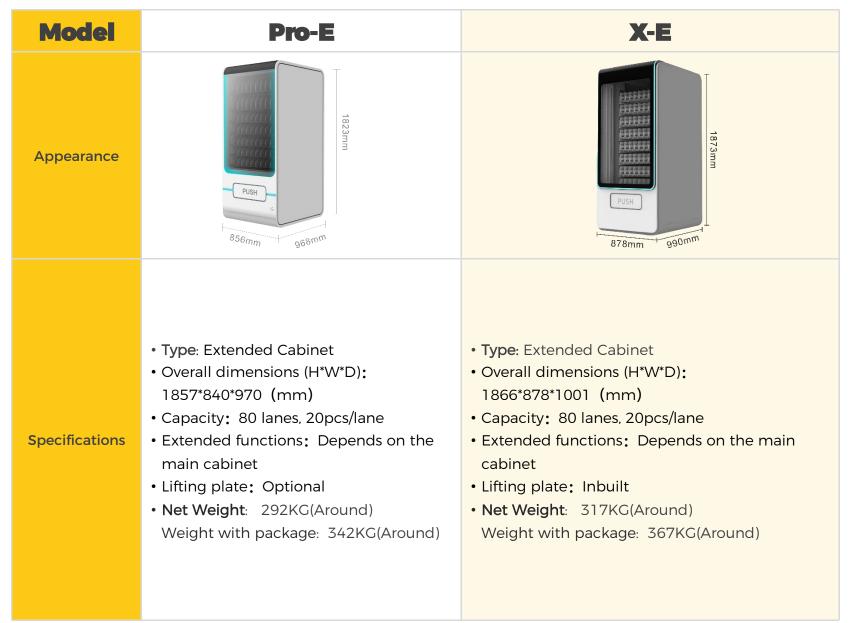
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Specification Science Science

Service Commitments

Specifications



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Specification

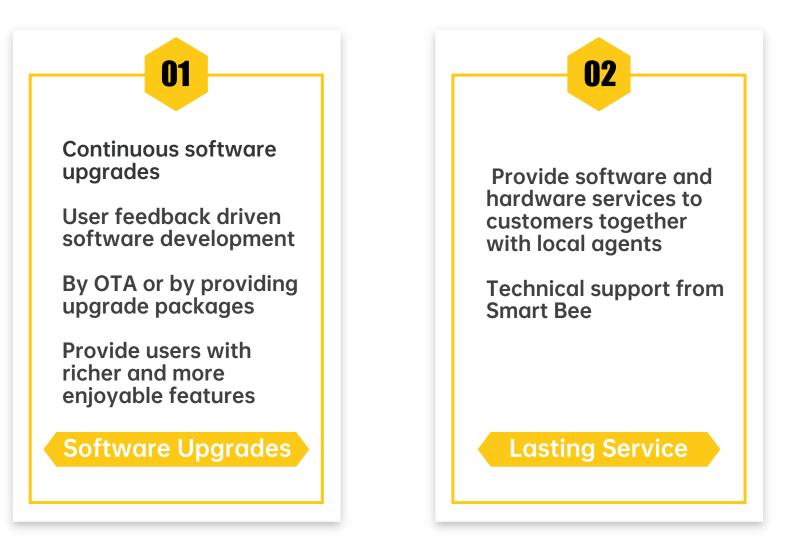


Service Commitments

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Service commitments



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Service Commitments



Thanks !

Looking forward to serving you





Shenzhen Danfoo Technology. Ltd.

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