

# Tool keeper

Tool Keeper Modular System



# Tool Keeper C/L (Coil/Locker) Type System

The smart tool storage control system which is a 24-hour running unmanned system that can simultaneously store and manage tools and tool holders in real time. It is designed to improve the efficiency and security of tool management in operation sites and other industrial settings.



## 1 ID card/Fingerprint recognition

- User-friendly login



## 2 Tool disposal outlet

- The selected tools are dispensed for easy removal



## 3 Label printer/Scanner

- Attach a label to the product case, scan and return it to the return bin upon return



## 4 Return and collection bin

- Returned product storage area
- Only administrator can open it.



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## 5 Coil main part

- Products can be registered by opening the main door in a vending machine style.
- Mainly registering consumable tools



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## 6 Locker main part

- Register and store products in locker type, setting registration at individual packaging unit
- Mainly registering semi-finished tools



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## Features of Hardware

- Component: "Coil type + Locker type" (hybrid type)
- Transparent outbound management (Can choose item release option: Package/individual)
- Authentication opt: ID card/fingerprint reader/ID, PW login
- Equipped 32-inch touch monitor and alarm speaker (operating convenience)
- 1:1 exchange method: Return used product first (label recognition is required) and release new product
- Equipped barcode scanner and label printer
- Auxiliary locker type installation is possible (locker types: 59)

# 01 Tool Keeper : Software Composition and Features

Efficient and transparent hybrid tool management control system + customer-customized S/W applied

## Tool Keeper Software

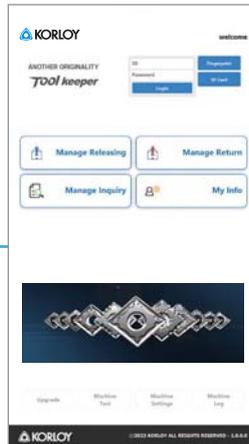
### Adnub program

- Register/Delete User
- Product registration/warehouse settings
- Statistical data
  - Status of entry/release
  - Warehouse inventory status
  - Other
- Safety inventory setting
- Program Authorization



### User program

- Forwarding management
- Return Management
- Warehousing management
- Due diligence management
- S/W Update
- Facility maintenance management



### Release management

- Forwarding management
- Product Search
- Select a product
- Check the product
- Select quantity
- Execute



### Statistics management

- Warehouse management status
- Product inventory status
- Current status of entry and exit
- Average usage by product
- Average by product



### Safety stock (E-mail) management

- Only for products with safety inventory set
- E-mail shipping: 7 a.m. every day
- Texting: Real-time
- Only for designated administrators

### Return (1:1) management

- ID card
- Tool click
- Select a reason
- Label print/Attachment
- Scanner
- Barcode number
- Return box
- Release

## Features of Software

- Component : User program + Administrator program
- Tool usage management for each process or facility
- Easy tool release record search of each user within the organization
- SW menu permissions can be authorized to each user
- Safety stock notification management (automatic email/text)
- Multilingual language setting / remote diagnosis / automatic SW update
- Monthly (average) usage / cost / warehousing quantity management for each tool

# 02 Tool Keeper : Composition of Tool Keeper C/L Type Hardware



<b>Outer SIZE(mm)</b> (Hybrid type)		<b>1280(W) × 1000(D) × 2070(H)</b> ① Coil(C) type : 840(W) × 1000(D) × 2070(H) ② Locker(L) type : 440(W) × 1000(D) × 2070(H)	
<b>Specification</b> (W × D × H) mm		<b>Coil(C) type</b> (Small + Medium Coil) - Small size : 68 × 17 × 120 - Medium size : 68 × 26 × 150	<b>Locker(L) type</b> (Composed of same size) - Locker storage size : 100 × 110 × 380
<b>Max No. of Models</b>	<b>Types of Models (EA)</b>	<b>81 types</b> (9 lines × 9 rows)	<b>21 types</b> (7 lines × 3 rows)
	<b>Total (EA)</b>	<b>102 type</b>	
<b>Insert Holder (ED type)</b>	<b>Small I/S</b> (98 × 40 × 13 mm)	<b>22 CASE / Coil</b> <b>No. of small Coil : 45 EA</b> (5 lines ~ 9 lines)	<b>Can storage</b>
	<b>Medium I/S</b> (138 × 55 × 15 mm)	<b>14 CASE / Coil</b> <b>No. of medium Coil : 36 EA</b> (1 line ~ 4 lines)	
	<b>Average storage No.</b>	<b>1,494 CASE</b> (Standard : Insert)	<b>21 EA</b> (Standard : Holder)
	<b>Storage weight</b>	<b>72 kg / Rack(line)</b> (8 Kg / Coil)	<b>8 kg / Locker</b>

1) The specifications above are based on the standard type.

2) Auxiliary locker type can be additionally installed to the hardware above (No. of storage models : 59 types)

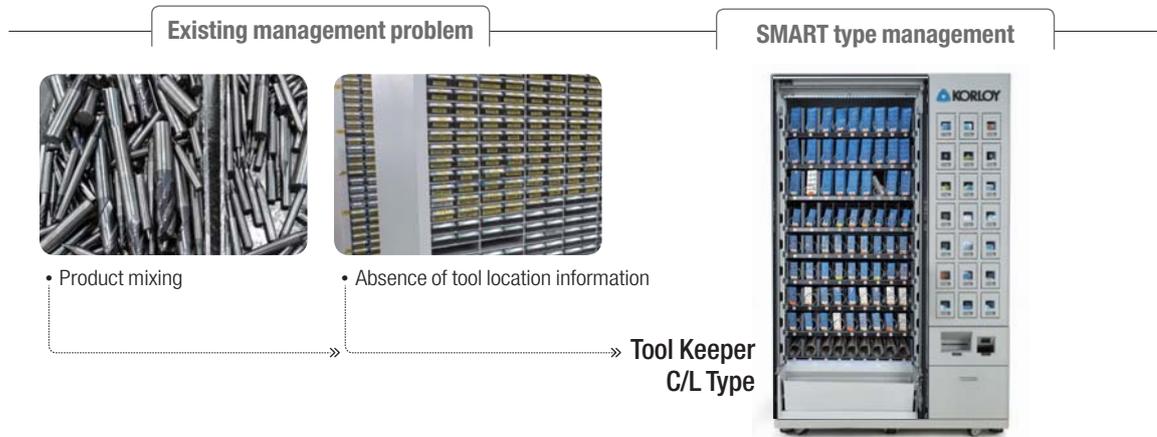
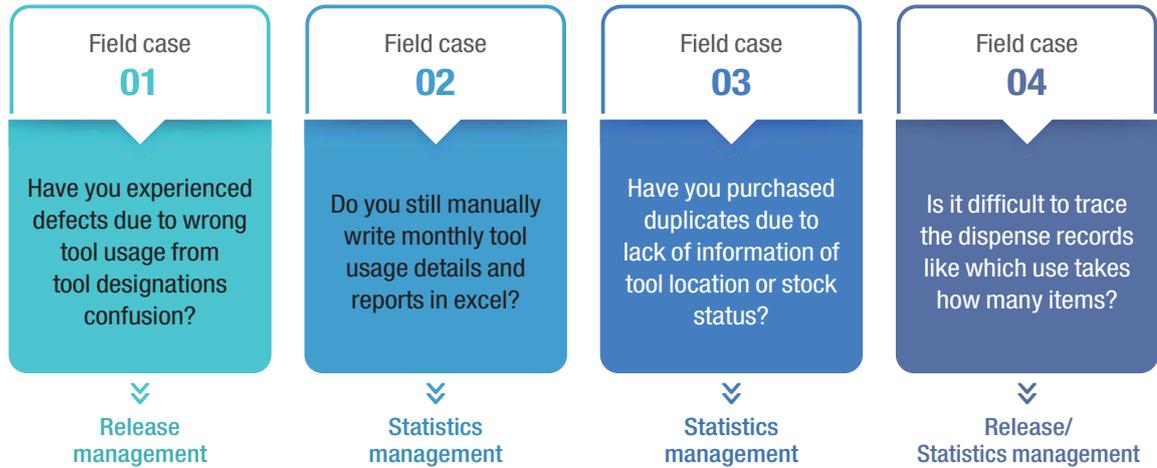
## Expected effects

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● **Increased labor productivity** → Reduced tool management work ratio
- **Improved product delivery compliance rate** → Prevent facility's outage
- **Preventing duplicate purchase of tools** → Cost reduction





## Toolkeeper C/L Type application guide (field example)



## Quality assurance and after-sales service support

### Free of charge service information



If a problem occurs while using it normal within the warranty period from the date of purchase, repairs will be provided free of charge. (Refer to the warranty period below)

- ① **H/W**: Within 3 years from the date of installation (Tool keeper housing/drawer/sense and other parts, UPS)
- ② **S/W**: Within 3 years from the date of installation (Toolkeeper S/W)
- ③ **Computer equipment**: Within 1 year from the date of installation (PC body [desktop], monitor, scanner, fingerprint recognition device, keyboard, mouse)
- ④ **Other optional devices**: Within 1 year from the date of installation (Barcode label printer, etc.)

### Charged service information



In the following cases, a service fee (repair fee, parts fee, travel fee, etc.) will be charged for repair.

- ① **When the warranty period has expired**
- ② **When it is within the warranty period**
  - In case of malfunction due to natural disaster (fire, earthquake, wind and flood damage, lightning, power abnormality)
  - If a breakdown occurs due to careless uses after installation (moving, falling, impact, damage, excessive operation, etc.)
  - If a malfunction occurs due to a change in the customer's environment (other than the device connected to the tool keeper) such as a problem with the power supply.

### ⚠ For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.



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