Guangzhou Zebra Information Technology Co., Ltd.

Smart Tool Cabinet

Model: ZSC-C60

Version: V3.0

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1. Product Image

2. Product Overview

The ZSC-C60 Grid Tool Smart Cabinet is an integrated smart tool management device specifically developed for the machining industry. Independent cells enable precise tool control, integrating modular design, multi-scenario adaptation and other advantages, integrating biometric recognition, IoT, big data analysis, intelligent security monitoring and other advanced technologies, comprehensively covering machining enterprises' core needs for multi-type tools including collection, recycling, old-for-new exchange, compliant disposal, as well as personal temporary storage, public temporary storage, and full lifecycle management of tools in production scenarios.

3. Functional Features

• Multi-factor Authentication: Supports face recognition, card swiping, QR code scanning, and account password. Custom withdrawal quotas, system automatically intercepts excess requests.

• Fast Self-service Operation: 8-inch capacitive touch screen. After selecting tool type and quantity, the system automatically delivers to the pickup port, convenient and efficient operation.

• Classified Recycling Registration: When recycling tools, select recycling category. The system automatically records recycling time, tool model, and status.

• Old-for-New Exchange: Old tool recycling and new tool collection in one go, reducing operation complexity.

• Recycling Label Printing: Optional printer supports automatic recycling label printing, facilitating subsequent classified disposal by administrators.

• Personal Temporary Storage: Optional side grid cabinet, assign fixed temporary storage cells, preventing item loss or misplacement.

• Public Temporary Storage: Optional side grid cabinet, set up public temporary storage area for new tools, tools awaiting repair, and reground old tools, supporting multi-person sharing.

• Tool Life Management: Record tool usage time, generate life records, automatic reminder for replacement when exceeding threshold.

• Intelligent Inventory Monitoring: Real-time inventory status monitoring, automatic replenishment reminder when below threshold, no need for manual periodic counting.

• Comprehensive Security Protection: 1.2mm cold-rolled steel plate, universal wheels with brakes.

• Data Security and Connectivity: WIFI and RJ-45 communication methods, real-time data synchronization.

4. Optional Modules

• 4G Communication Module: Achieve data networking in environments without WiFi/network cable.

• Label Printer: Support label paper printing, automatic recycling label printing.

• Card Reader: ID/IC card reader, card reading distance 0-30mm, supports card swiping verification.

• Face Camera: Binocular liveness detection, supports RGB+IR.

5. Technical Specifications

5.1. General Parameters

Parameter Name	Value	Unit	Remarks
Overall Dimensions	2000*920*500	mm	Height×Width×Depth
Rated Voltage	220	V	Single-phase AC
Installation Method	Floor-standing	—	Foot Supports
Communication Interface	WIFI/RJ-45/4G	—	4G Optional
Industrial Control Board	RK3568	-	
CPU	Quad-core 64-bit Cortex-A55	-	
Memory	2GB	-	
Storage	16GB	-	
Operating System	Android 11	—	
Screen Size	8	inch	Capacitive Touch Screen
Protection Level	IP20	IP	Indoor Use

5.2. Product-Specific Parameters

Parameter Name	Value	Unit	Remarks
Aisle Type	Grid Aisle	—	
Number of Cells	60	pcs	

Cell Dimensions 1	140×100×320	mm	40 pcs (Height×Width ×Depth)
Cell Dimensions 2	140×200×320	mm	20 pcs (Height×Width ×Depth)
Electromagnetic Lock	Electromagnetic Lock	-	Electromagnetic Lock
Cabinet Material	1.2mm Cold-rolled Steel Plate	-	Surface Spray Plastic

5.3. Expansion Cabinet Parameters

Parameter Name	Value	Unit	Remarks
ZSC-C60A Sub-Cabinet (Optional)			
Aisle Type	Grid Aisle	—	
Number of Cells	60	pcs	
Cell Dimensions 1	140×100×320	mm	40 pcs (Height×Width ×Depth)
Cell Dimensions 2	140×200×320	mm	20 pcs (Height×Width ×Depth)
Electromagnetic Lock	Electromagnetic Lock	-	Electromagnetic Lock
Cabinet Material	1.2mm Cold-rolled Steel Plate	-	Surface Spray Plastic

6. Standard Accessories

No.	Accessory Name	Quantity	Remarks

1	Power Cord	1	220V Power Supply
2	Mechanical Lock Key	1	Maintenance Compartment
3	User Manual	1	Electronic Version
4	Certificate of Conformity	1	Product Conformity Certificate
5	Warranty Card	1	Warranty Certificate

7. Notes

Equipment must be installed in a flat, dry, ventilated indoor environment, avoiding direct sunlight, humidity, or areas with severe dust.

Strictly supply power according to rated power parameters, avoiding equipment failure caused by voltage instability or overload.

Regularly clean and maintain the cabinet, check the status of locks, screens, communication interfaces and other components to ensure normal operation.

Administrators need to regularly back up data, update system versions in time to ensure equipment function stability and data security.

Violent lock picking, cabinet impact and other behaviors are prohibited, otherwise it will affect equipment service life, and losses caused shall be borne by yourself.