



SMART BEE

ORBIX 900





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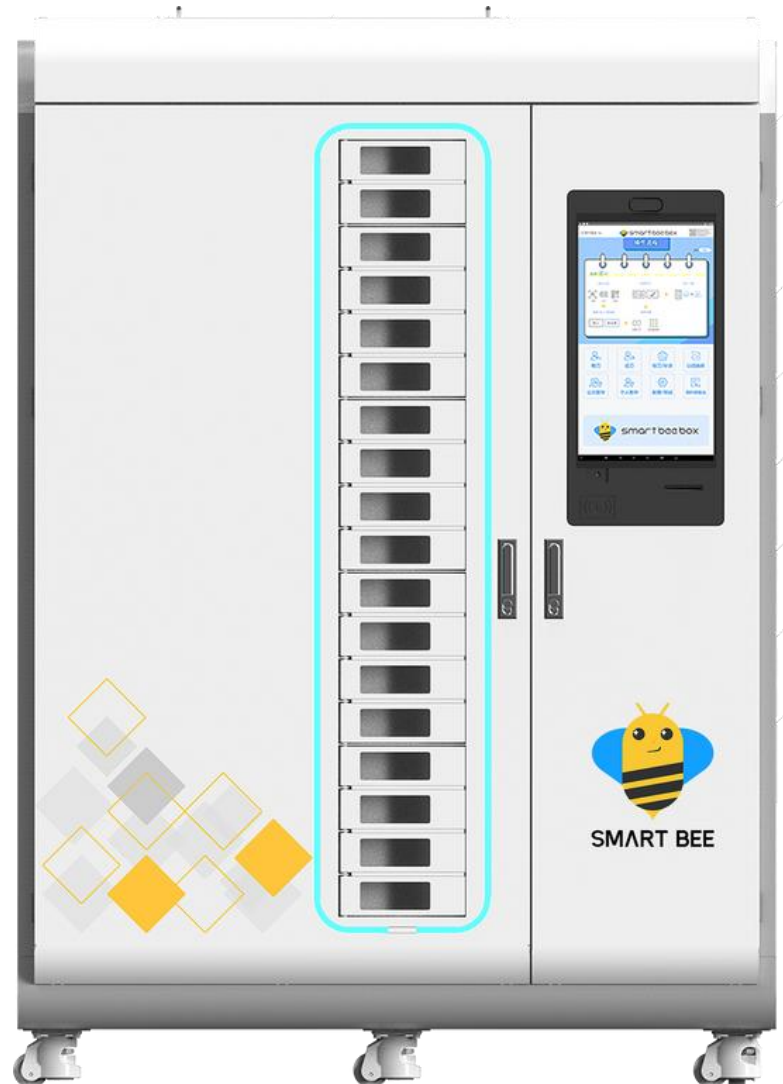
360° Carousel System for High-Density Material Storage

Key Benefits:

- Operation efficiency improvement: 24/7 availability, save your time and labor.
- Cost reduction: Save on materials, inventory, and supply chain operations—see measurable results in just 30 days.
- Full traceability: Keep track of all your items and get instant insights with automated reports.

Suitable for smart management of items such as PPE, MRO supplies, common small tools, and consumables.

- Safety glasses
- Hearing protection (ear plugs)
- Hand protection (various gloves)
- Batteries
- Various tools
- Small parts





1. Dimensions & Capacity

Item	Spec.
Overall Dimensions (H*W*D)	1900*1350*1100 (mm)
Expansion Cabinet Dimensions (H*W*D)	1900*1150*1100 (mm)
Pick-Up Door	18 pcs
Side Compartments (H*W*D)	32 compartments 118*150*240 (mm)
Capacity	Up to 900 SKUs
Load Capacity	Min. compartment load: 0.5 kg Max. compartment load: 10 kg
Expansion Capability	MAX. 1 main cabinets + 7 expansion cabinets



2. Industrial All-in-One Configuration

Item	Spec.
Display	18.5" Embedded Display
Aspect Ratio	16:9
Resolution	1920×1080
CPU	Rockchip RK3288 Quad-Core, 1.8 GHz
Memory	4GB + 16GB
OS	Android 7.1.2
I/O Interfaces	4×RS485 DB9, 2×RS232 DB9



3. Electrical Protection & Power System

Item	Spec.
Residual Current Circuit Breaker (RCCB)	NXBLE-63 / C20 / 2P / 30 mA (CE Certified, Chint)
Surge Protective Device (SPD)	NXU-IG / 40 kA / 275 V / 2P (CE Certified, Chint)
EMI Filter	YB21D5-20A-S1, 115/250 V, 20 A
Switching Power Supply	12 V / 100 W (Input: 110-230 V) 24 V / 75 W (Input: 110-230 V) 24 V / 100 W ×2 (Input: 110-230 V)



4. Control & Drive System

Item	Spec.
Control Module	Delta PLC
Drive System	Delta Servo Drive
Servo Motor	Delta Servo Motor
Photoelectric Sensor	E3Z-G61, Sensing Distance 2 m
Door Control Switch	KBM-X123-A-W-1



5. Peripherals & Interactive Components

Item	Spec.
Electronic Lock	ZL28 Lock × 42, Latch Depth 26 mm
Antenna	Suction Cup Antenna × 2
Camera	2MP AI Capture Camera (Integrated on Display)
Printer	MS-N58VII (Integrated on Display)
Card Reader	IC Card Reader (Integrated on Display)
Scanner	E610 Barcode Scanner (Integrated on Display)



6. Lighting & Indication System

Item	Spec.
Compartment Lighting	24 V LED Light Bar (PLC-controlled, dimmable via dimmer)
Indicator Lights	24 V Light Bar (Fluorescent Green, 6500 K) ×18
Indicator Lights	24 V Light Bar (Fluorescent Green, 6500 K) ×18
Control Method	PLC Control Switch



7. Network & Interfaces

Item	Spec.
Network Support	Dual Network
Network Mode	Ethernet Intranet + 4G / WiFi Extranet
Ethernet Port	RJ45 ×1 (10/100 M Auto-negotiation)
USB Interface	USB ×2
Power Cord	National Standard Power Cord, 3 m Length



8. Electrical Control Parameters

Item	Spec.
Electronic Lock Power Supply	12 V Power Supply via Control Board
Industrial All-in-One Power Supply	12 V DC Switching Power Supply
PLC Module Power Supply	220 V Direct Supply
Door Lock Communication	RS485 (DB9)
Light Bar Power Supply	12 V (Connected to Switching Power Supply via Relay)
Cabinet Input Voltage	AC 220 V (Transformer required for 110 V)
Cabinet Output Voltage	DC 12-24 V
Operating Temperature	-20 ° C ~ +60 ° C
Operating Humidity	40% ~ 60%
Power Consumption	Standby Power: Approx. 60 W; Maximum Power: Approx. 150 W

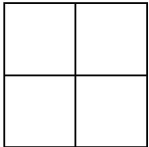
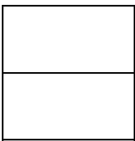
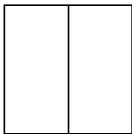
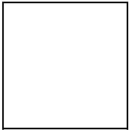
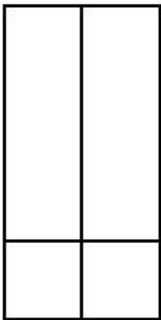


9. Cabinet Structure & Appearance

Item	Spec.
Appearance Design	Safe rounded corner design, high-quality sheet metal
Surface Treatment	Pickling, Phosphating, Electrophoresis, Spraying
Cabinet Color	Light Orange Grain Silver Gray (RAL 9006-1) Light Orange Grain White (RAL 9003)
Logo Marking Process	Screen Printing
Chamfering Method	Rounded Corner

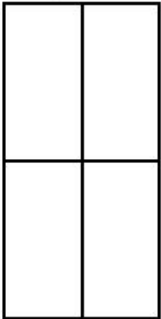
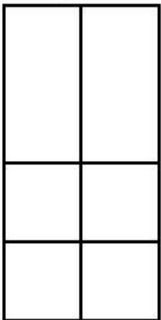
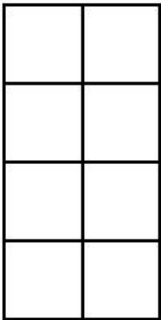


Bin Configuration

Bin Type	Back Width (mm)	Front Width (mm)	Depth (mm)	Height (mm)
	25	58	267	70
	55	123	267	70
	25	58	267	153
	55	123	267	153
	55	123	267	307
	25	58	267	70/228

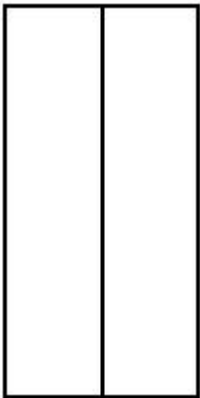


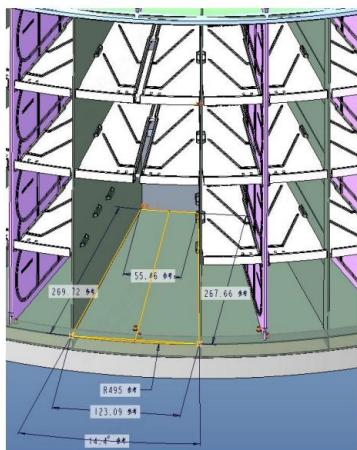
Bin Configuration

Bin Type	Back Width (mm)	Front Width (mm)	Depth (mm)	Height (mm)
	25	58	267	148/151
	25	58	267	70/151
	25	58	267	70



Bin Configuration

Bin Type	Back Width (mm)	Front Width (mm)	Depth (mm)	Height (mm)
	55	123	267	70
	25	58	267	307



Max planar size:
isosceles trapezoid
123 (bottom) × 55 (top) × 267 (H)
(mm)





Feature Highlights

01

High-Capacity Material Storage

One unit handles 900 material types with smart rotation and vertical space reuse, maximizing storage efficiency while minimizing footprint.

02

Flexible Compartment Configuration

Each layer has preset divider slots for flexible compartment sizing, making one cabinet adaptable to various materials and multi-spec storage needs.

03

Smart Rotary Access

Automatic item delivery. Less work. Faster, accurate retrieval.

04

Auto Records, Real-time Tracking

Quickly import material data using templates and automatically track consumption trends and employee usage rankings — every operation is recorded for full traceability.

“Smart Storage, Bee Efficient.”



SMART BEE

SmartBee

Shenzhen Danfoo Technology Co., Ltd.

Website

www.smartbee.group

Email

mkt@danfoo.com

Address

Room 1201, Skyworth Digital Building, Shiyan
street, Bao'an District, Shenzhen, Guangdong



SmartBee
Join our community

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.