Technology Solutions for Retail

RFID Smart Tool Cart

CK-GTC5



Product overview

The RFID Smart Tool Cart is a tool management solution based on RFID technology. It enables fast inventories of managed tools, significantly improving the accuracy and efficiency of tool control. It supports enterprise-level tool information management and precise tool control in high-security environments such as correctional facilities.

Its main operating modes are: cart initialization, tool checkout, tool return, daily and monthly inspections, and transport-mode lock.

Industry applications

Aviation, electric power, fire protection, machinery, railways, correctional facilities and other industries, with fast, automatic tool checkout and return, plus tool location, search and maintenance.

Product features

01 Fully automatic management

Automatic logging of tool check-in and check-out, eliminating tedious work and the errors of manual scanning and data entry.

02 One-click inventory

Daily and monthly inspections are completed in 3 seconds.

03 Data capture and analysis

Records the parameters of each tool and sends calibration-cycle reminders for specific tools.

04 Safety and traceability

If a tool is not returned on time, the cart raises an alert and quickly identifies the person responsible.

05 Broken-tether alarm

When a tool's tether chain breaks, an alarm is triggered immediately to prevent risks from cutting tools or other hazardous objects.

06 Mobile and smart

Built-in rechargeable battery runs continuously for more than 10 hours on a full charge, so it can be used for portable tool management right at the line side.

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Specifications

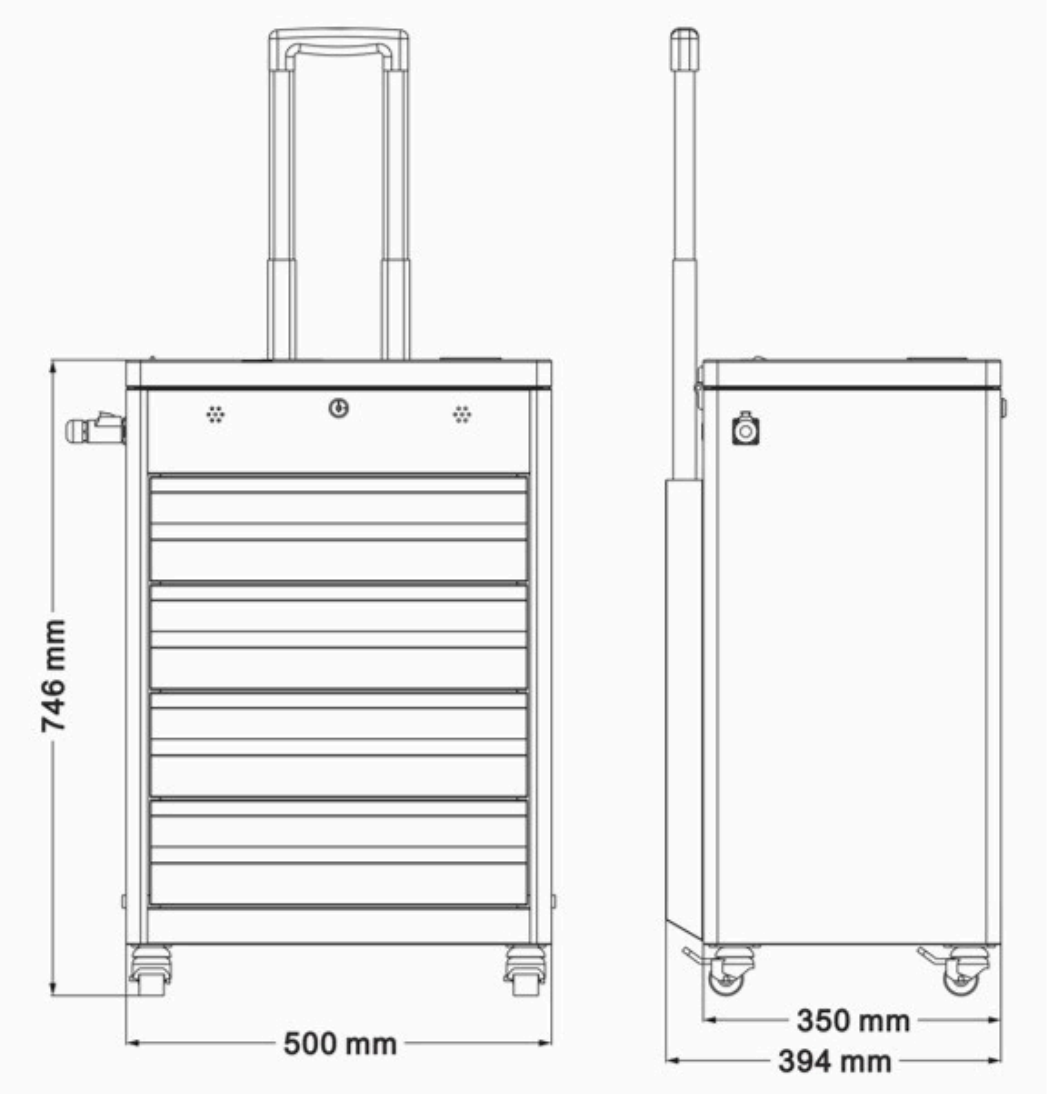
Model	GTC5
Display	10.1-inch capacitive touchscreen, 1280 × 800 resolution
Operating system	Windows / Android
Industrial PC configuration	4th-gen Intel i5, 8 GB + 128 GB (dual network ports) / RK3399, 4 GB + 32 GB
RFID	UHF (840–960 MHz)
Emergency opening	Cabinet with emergency unlock function
Shielding	Cross-reading distance under 5 cm
Tag capacity	80+ tags (performance depends on material and number of managed items)
Recognition speed	Up to 80 tags; read time under 5 s (depends on tag performance, material and number of managed items)
Communication	Standard: network port, 1 USB · Optional: Wi-Fi, 4G
User authorization	Standard: card / binocular facial recognition · Optional: fingerprint, QR code
Operating voltage	AC 220 V, 50 Hz
Battery capacity	30 Ah (standby time over 10 hours)
Power	≤150 W
Development support	SDK / API development kit
Material	1.0 mm carbon steel sheet
Dimensions (W × H × D)	500 mm × 746 mm × 394 mm
Internal layout	Four drawers
Operating temperature	−20 °C to +60 °C
Storage temperature	−25 °C to +70 °C
Storage humidity	25% to 50%

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Product dimensions



Dimensions in millimeters. Height: 746 mm · Width: 500 mm · Cabinet depth: 350 mm · Overall depth: 394 mm.

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