MULTI-BEVERAGE · UNATTENDED RETAIL

KL-C05C

MULTI-BEVERAGE INTELLIGENT OPERATION ROBOT

One machine, the whole drink menu — served 24/7 without a barista

A fully automatic beverage robot for unattended retail. Grinding, brewing, milk frothing, dispensing and cleaning are all automated on a six-axis collaborative arm inside an enclosed kiosk — **30+ hot & cold drinks** on a footprint of **approx. 2 m²**.



- 30+ SKUs: coffee, juice, milk tea and milk — hot and cold
- 3D printing on the drink surface for custom, branded serves
- Scheduled cleaning and high-temperature disinfection, fully automated

~50 s	30+	≈2 m²	24 h
One Cup, Fully Automatic	Hot & Cold Beverage Options	Compact Footprint	Unattended Operation

01 WHAT MAKES IT DIFFERENT

30+ SKUs, One Machine

Coffee, juice, milk tea and milk from a single footprint — one menu that fits every daypart.

Enclosed Kiosk Design

A single six-axis arm works inside a fully enclosed serving cabin — clean, safe and self-contained.

3D Drink-Surface Printing

Custom patterns and logos printed directly on the drink — a photo-worthy brand moment in every cup.

02 DESIGNED FOR HIGH-TRAFFIC VENUES



From mall atriums to campus corners

Four proven settings — see page 2

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1-YEAR WARRANTY · 24-HOUR UNATTENDED · 500,000-CUP DESIGN LIFE

03 WHERE IT WORKS

Four settings where the KL-C05C earns its keep fastest — each one built around the same enclosed kiosk, the same 30+ drink menu, and the same approx. 2 m² footprint.



Malls & Mixed-Use

One machine covers coffee, juice, milk tea and milk — a broad menu that converts more passers-by. Built for shopping malls and commercial complexes.

RECOMMENDED: KL-C05C



Campuses & Education

Coffee in the morning, tea drinks in the afternoon — one unit meets diverse campus demand. Fits universities and on-campus retail.

RECOMMENDED: KL-C05C



Business & Industrial Parks

Standardized, unattended operation reduces reliance on manual staff — ideal for office parks and technology campuses running long hours.

RECOMMENDED: KL-C05C



Convenience & In-Store

Adds a full drink category on top of existing footfall — no extra counter staff needed. Suited to chain convenience stores and shop-in-shop formats.

RECOMMENDED: KL-C05C

Best-fit selection depends on traffic pattern, opening hours, refill access, power and water conditions, and the desired beverage menu.

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04 WHY KL-C05C

Hardware, software and service in one package — six advantages that cut labor cost, widen the menu and keep quality consistent around the clock.

30+ Hot & Cold SKUs

Coffee, juice, milk tea and milk in one menu — personalized combinations that fit every daypart and season.

Fast & Consistent

Each cup completes in approx. 50 seconds — about 30% more efficient than manual production, cup after cup.

3D Drink-Surface Printing

Custom patterns and logos printed on the drink surface turn every serve into branded, shareable content.

Enclosed 6-Axis Kiosk

A single six-axis collaborative arm prepares drinks inside a fully enclosed cabin — hygienic and self-contained.

Intelligent Cleaning

Automated production-to-cleaning workflow with scheduled cleaning and high-temperature disinfection — no manual intervention.

Low Operating Cost

Approx. 5 kW whole-machine power and 24-hour unattended operation keep the cost per cup low.

05 THE MACHINE



KL-C05C · FRONT VIEW


6-AXIS ARM · ESPRESSO MODULE


SYRUP & BEVERAGE MODULES


WORK AREA · ORDERING SCREENS

One modular body, four pickup counters and a 13.3" touch ordering screen — the same footprint serves a full multi-beverage menu.

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06 TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	KL-C05C multi-beverage intelligent operation robot
Configuration	Enclosed kiosk · single 6-axis collaborative arm · Bravilor F200 coffee machine (rated 3960 W)
Overall dimensions (W×D×H)	1500 × 1350 × 2128 mm
Floor area / Weight	approx. 2 m^2 (footprint 1500 × 1350 mm) / 750 kg
Output speed	approx. 50 s per cup · 30+ hot & cold beverage options
Operation mode	24-hour unattended operation
Ordering	13.3″ touch ordering screen · 4 pickup counters
Cup & lid dispensing	Two cup dispensers (hot + cold), 70–80 cups each — approx. 140–160 cups in total · two lid dispensers, 70–80 lids each · cup ø 90 mm
Milk & juice	Refrigerated milk tank, 2–6 °C · juice 3.4 L × 4
Syrup system	4 channels with weight sensors for real-time monitoring and low-level alerts
Ice maker	Automatic, first ice approx. 15 min after power-on
Water & waste	4 × 19 L water buckets (≥200 cups per refill) · 5 L transfer tank · 28 L wastewater bucket
Power supply	220 V AC / 50 Hz · whole machine approx. 5 kW · 16 A recommended, 32 A leakage-protected breaker
Environment	+5 to +35 °C · ≤80% RH non-condensing · noise < 70 dB
Design life / Warranty	Coffee machine approx. 500,000 cups · 1-year warranty

Reference configuration based on the KL-C05C product specification sheet. Final dimensions, components, payment functions and local compliance package are confirmed for each project.

07 SITE & CONSUMABLES

Site Setup
Stable, level indoor surface; exhaust or ventilation for heat dissipation. Outdoor installs need rain-proofing and air conditioning.

Electrical
220 V AC / 50 Hz with ground wire; three-core copper cord ≥4 mm^2; 16 A supply with 32 A leakage-protected breaker.

Consumables
Round 90 mm cups (rim ≤3.5 mm); medium-dark roast beans; full-fat milk at 2–6 °C; pure water recommended.

Service Plan
Dealer on-site maintenance every 6 months or 60,000 cups; 1-year warranty against defects in workmanship and materials.

Before quotation: share site photos, floor plan, expected cups/day, beverage menu mix, power and water conditions, and target launch date.

08 FROM ORDER TO DAILY OPERATION

STEP 1
Planning
Requirements, site checklist, configuration and deployment plan.

STEP 2
Commissioning
Factory testing, shipping support, installation and launch checks.

STEP 3
Training
Refill, cleaning, inspection and troubleshooting procedures.

STEP 4
Support
Scheduled dealer maintenance, spare parts and warranty service.

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