

Company Overview

KEDU is a multifunctional corporation specializing in several automated services. The organization is rapidly becoming the region's leading business solutions provider and the Middle East's premier destination for professional and managed services, corporate consultation and mobile applications. KEDU is dedicated to providing innovative methods, green solutions that reduce carbon emissions and services that offer our business partners and consumers true value, convenience and peace of mind.

KEDU Automated Compartment Machines

Schedules are hectic, time is more precious than ever and the KEDU technology gives people the flexibility they require, while giving retailers and essential services the ability to be more responsive to the needs of their customers.

Today's busy consumers are always on the move. Travel has become a regular part of daily life for some whether through work or leisure, and today there is an increase in the exchange of information between businesses and individuals that requires a smart, safe, convenient and efficient means to store their belongings, whether for personal or business purposes. To this end, KEDU introduces Automated Compartment Machines that serve a variety of these purposes and needs through the use of an automated storage system with various sized locker compartments. By enabling customers to utilize these services on their own time, businesses adopting this technology are gaining a competitive advantage.

KEDU Automated Compartment Machines deliver services via touch screen kiosks with separate compartments for a variety of uses. Compartments are allocated per transaction based on specific size and weight requirements.

Box Type	Height (mm)	Width (mm)	Depth (mm)
S	80	440	610
M	175	440	610
L	365	440	610
XL	745	440	610

Maximum load per box	Weight (kg)
Small	10
Medium	20
Large	31.5

Module	Weight (kg)
Compartments module	150
Control unit & side frame	300

Behind this advanced technology is a team of highly skilled professionals to oversee the total maintenance and functionality of the automated compartments.

The KEDU System

KEDU Automated Compartment Machines use a combination of cutting-edge software and hardware to transmit reports on the health conditions of the machines regularly while also sending audio and video feeds for security purposes. The KEDU network can integrate with our partners' existing IT infrastructure solutions via industry standard web service protocols.

KEDU provides a three-tiered technical support structure geared to properly distribute technical resources and serve our customers and partners efficiently. Tier one is the call center, tier two is the hardware/engineering team and the third tier is the software/hardware developer's team of engineers.

How you will benefit

The KEDU Automated Compartments can accommodate a wide range of businesses and help make their operations flow more efficiently. This service will also give customers added value by creating such a flexible, effective means for them to safely store important documents, suitcases and other items that need temporary storage. Dubai is bustling business and tourism hub that is always overflowing with people who have way too much on their shoulders, KEDU helps take the load off whether individuals are passing through on transit, have too much to carry on a busy day out shopping or need a safe measure for official document retrieval at their convenience. Several industries can greatly benefit from implementing the use of the KEDU Automated Compartment Machines into their business.

Airports:

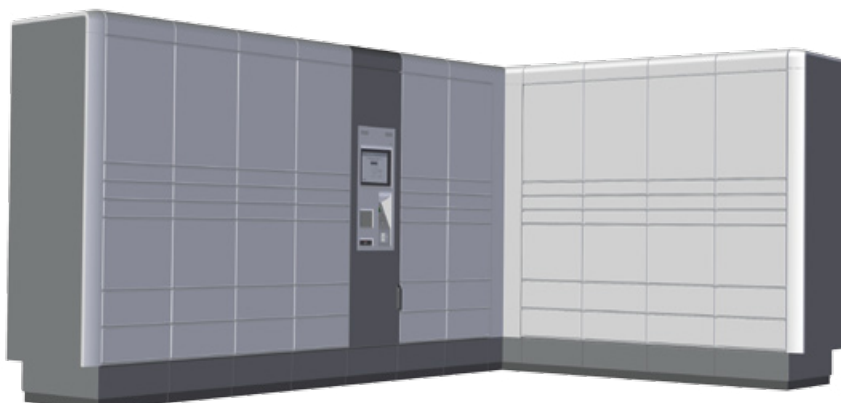
Airports can make use of the KEDU compartment system in a number of areas such as baggage storage for travelers with long transits in between connecting flights, or for those with delayed flights. Passengers going through the airport can also utilize these boxes for safekeeping of important travel and official documents, or to store duty free purchases in between flights.

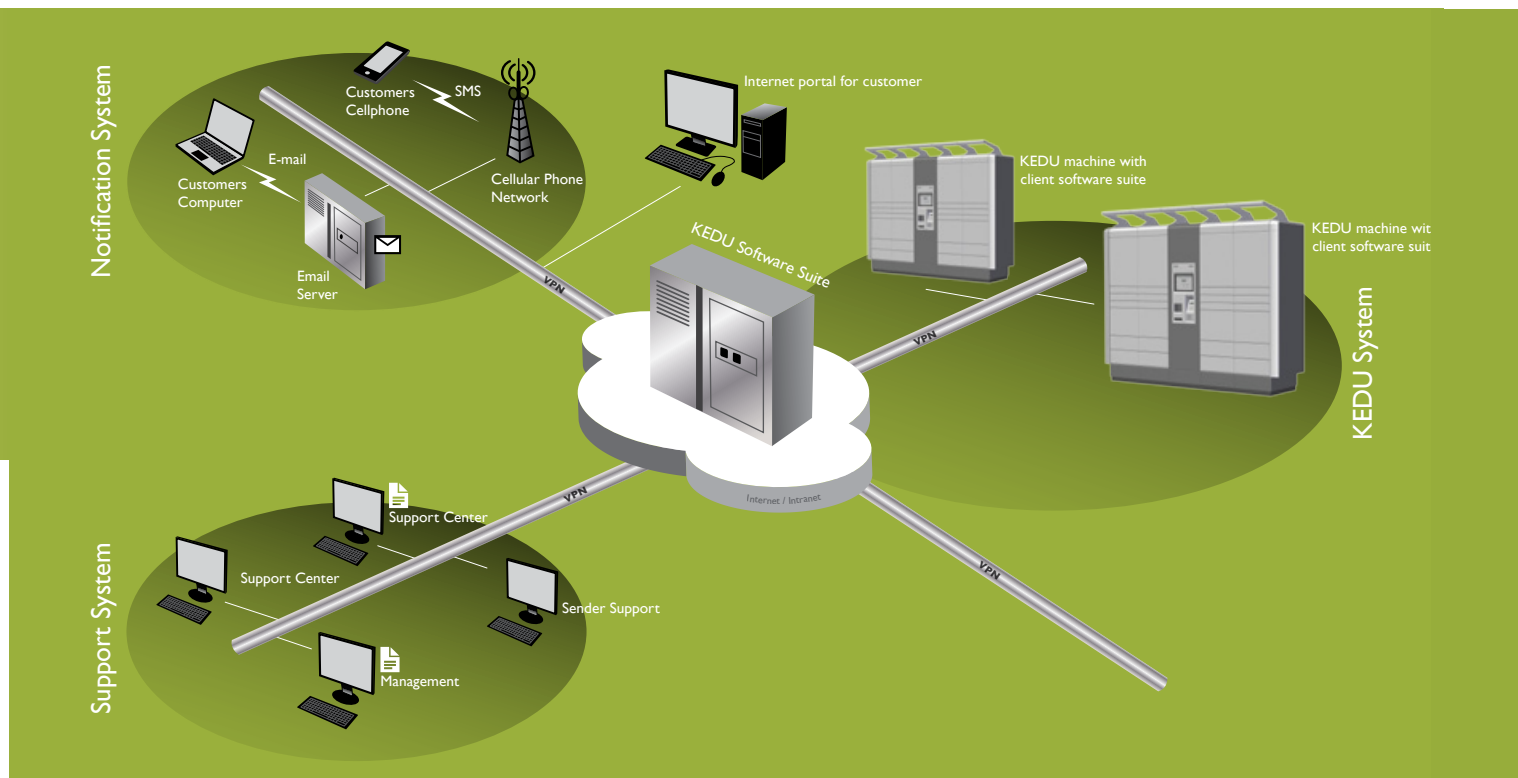
Banks:

Through the use of KEDU, banks can ensure safe and convenient storage of official bank mail and products to their entire customer base. Customers can receive new credit and ATM cards, check books or statements and other correspondence from the bank and collect it at their convenience. In turn, customers can also use the safety deposit boxes for storage of valuable items or to send documents to the bank.

Government:

The government can utilize the KEDU system for the swift and secure storage of official documents, national forms of identification, passports and other various correspondences between ministries, police departments and citizens.





Design

The KEDU Automated Compartment Machines are a rugged design developed specifically for the Maintenance, Repair, and Operations (MRO) market. Equipped with multiple electronic storage lockers and a control kiosk, the machines are outdoor/indoor unattended Automated Compartment Machines (ACM).

Security

The KEDU Automated Compartment Machines feature state-of-the-art security. The machines have a combination of both mechanical and electronic security elements which make them extremely safe.

Mechanical:

Usage of screws in visible areas is reduced to the absolute minimum.
 Safety screws
 Control cabinet locked up with a changeable safety lock (half cylinder).
 Rugged lock and box construction WK2 according to EN 1627 - Burglar resistant construction products
 Small slits that do not offer leverage points for break-in tools
 Box state sensors are not accessible by hand or fingers.
 Manipulation is nearly impossible
 Electronic security:
 Supervision of lock and door state of each box with 2 sensors
 Supervision of control cabinet door
 Acoustic alarm signal via siren
 Alarm message to service-portal
 Supervision of module cover

Quality:

The machines are composed of high quality materials and are made with great detail for optimum functionality. The high quality ensures a long life, a durable product and it is designed to be resilient to whether and other external conditions which make it suitable for both indoor and outdoor use. The machines are also internationally certified:
 ISO certified according EN ISO 9001 (quality management), EN ISO 14001 (environmental management), OHSAS 18001 (Occupational Health and Safety Assessment)

The materials and components of the automated compartment machines include:

- Metal (steel and aluminium)
- Surface protection is done by powder coating
- Other materials: Concrete (base), ABS (control panel),

Because of the used materials the amount of recyclable material is very high.

Lock system:

KEDU uses a very sophisticated electrical lock system which does not require any form of key/lock mechanics and provides maximum security in self-service operation. Each box in the system has an electrical lock that is automatically monitored, unlocked and opened by the module controller.

Features:

- Each lock has 2 sensors for door state (open / closed)
- lock state (unlocked / locked)
- The release of the lock is done by an electromagnet.
- Back load operation:
 Releases backloads (e.g. caused by oversized parcels squeezed into the box) up to 100N

Operation:

After electronically releasing the lock, the door is opened by a spring mechanism.
 The door is closed by the user and automatically locked by the locking mechanism.

The lock control system monitors the status of the locks. Unusual conditions of the lock and cabling, such as short circuits, breaking and other defects are clearly identified and registered. Any unusual condition activates an acoustic alarm (siren) and alerts the administrative system.

An additional sensor monitors the cover plate of the module. There is no access to lock controller and cabling without triggering an alarm.

