

# EK 1000

**Koval** systems



Open workplaces are becoming increasingly preferred compared to standard workplaces equipped safety barriers.

EK 1000 product range offer products which are essential for safe cash processing in new environment - open workplaces. Wide range of the products allows us to meet any requirements of banks and helps to protect not only the cash, but also the employees and customers.



**Timer lock safes**

# EK 1500

## timer lock safes

koval systems



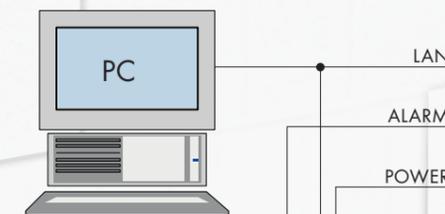
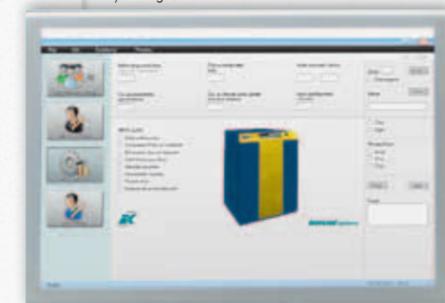
- ▶ **6 digit general master code** - to access service programming menu and to increase user safety general master code can be used only together with user PIN code
- ▶ Acoustic and optical signalisation of the timer lock activation
- ▶ Time counting on display
- ▶ PIN code entry process shown on display
- ▶ Virtual partition of the timer lock safe between two users keeping all safety features for both users
- ▶ double step drawer locking
- ▶ automatic drawers and slots blocking after closing
- ▶ Electromagnetic slots opening
- ▶ Acoustic signalization of opened drawer (informing user to close the drawer as soon as the preset time expires)
- ▶ **Time window** - timer lock safe is working only during preset time period - according to adjustable schedule
- ▶ **4 Eye principle** - optional double identification (4 eyes) to open drawer
- ▶ **journal** - downloadable through USB with EK journal software (up to 10 000 actions)

### Operation and modularity

- ▶ Production of Timer lock safe with drawer configuration according to customer's requirements - vertical (several drawers and slots above each other), horizontal (two drawers next to each other), or combined drawer layout of timer lock safe.
- ▶ Double position drawer for selected models - first position (partly opened) used for deposit slots access in special casket, second position (full opening of the drawer) - used to take casket out of the drawer.
- ▶ Mutual blocking of the drawers - only one drawer can be open at the time. Second drawer can be opened once the first one is closed. Independent time delay setting for each drawer.
- ▶ Programming and activity of the timer lock safe shown on display
- ▶ Communication ports - RS 232, 2x USB, LAN
- ▶ Timer lock control through built-in keyboard or connected or networked PC (EK Term software installed)
- ▶ Optional software configuration - drawers for users and special drawer with double identification for user and collecting service
- ▶ Design of complex system according to customer's requirements
- ▶ Available software for connection with cash-in/out recycling machines and bank software
- ▶ Software upgrade according to customer's requirements
- ▶ Additional equipment can be connected to timer lock safe - card dispenser, RFID identification of the drawer content - keys, full/empty drawer, built-in UV lamp for banknotes authenticity control wide range of inner equipment
- ▶ variable colour according to customer's requirements - RAL scale



EK TERM, EK JOURNAL



Timer lock safes - series EK 1500 are available in various modifications:

**Compact** - TOP product with intelligent, universal electronic control board and modular hardware

**Compact W** - identical with Compact supplemented with special equipment

**Simple** - simple version with standard functions and hardware modularity

All types are made of high quality steel plate. Each safe has solid double shell construction and drawers with reliable electronic blocking system. Thanks to modular design of the safes, timer lock safe can be designed according to customer's specific needs. Microprocessor based control unit, located in separate lockable drawer, together with universal software, turns it to modern equipment capable to meet any demands for cash handling operations.

### Safety

- ▶ Multiple access safety - key (10 000 combinations) and electronic user identification
- ▶ User identification according to customer's requirement
- ▶ **LOG IN - LOG OUT system** - log in/log out and identification with unique PIN code at the beginning/end of workday
- ▶ **Identification before opening of the drawer** - user identification before each drawer opening - using unique PIN code, DALLAS key, contactless chip card or finger print
- ▶ Unauthorized access is impossible
- ▶ Cash and valuables are accessible only after the preset time delay elapses. Drawer is then opened automatically.
- ▶ Adjustable time delay - from 0 to 90 minutes individually for each drawer. Timer steps adjustable according to customer's requirements
- ▶ Possibility to enter two **4-Digit master codes** - for special functions, such as safe clearance.
- ▶ Up to **16 users**



- ▶ **First open** - at the beginning of workday, first opening of the drawer is immediate. Any further opening is time delayed.
- ▶ Central electronic alarm system connectivity
- ▶ Power supply - electric adaptor ZN 12/1600 with built-in back-up battery for operation during power outage
- ▶ Floor anchoring option (with supplied anchors)
- ▶ Clear label marking of workplace, equipped with timer lock safes
- ▶ **Certificates:** Trezortest Praha, class Z3, according to ČSN 916012 Certificate Trezortest Praha - safety class 20 RU according to EN 1143-1. 2006, cap. 4 VBG - Munich, UVV Kassen certificate of conformity and ergonomics for cash handling equipment.



Mon Tue Wed Thu Fri Sat Sun

# EK 1500

## Standard models



### Standard models of EK 1500

Single Compact and Compact W models vary in drawers layout, which are built in unified body with dimensions 680 x 470 x 590 mm. Compact W models can be divided vertically and equipped with special drawers and accessories:

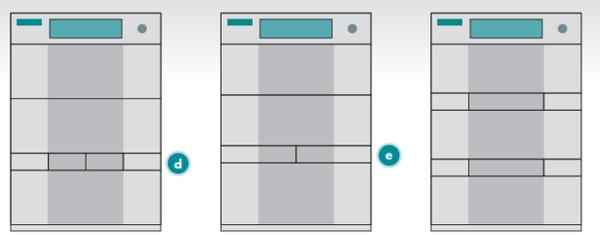
- a) Double drawer
  - b) Card dispenser
  - c) RFID identification of the content
- Safes can be equipped with 3 different slots and its variations:
- d) sorted to 4 bank note denominations
  - e) sorted to 2 bank note denominations
  - f) unsorted



### Timer lock safes - COMPACT



EK 1513 C - BS00    1550 C - EK00    1550 C - EK01



1552 C - EK00    1552 C - LB01    1553 C - EK04

### Timer lock safes with vertical dividing - COMPACT W



EK 1501 C - WN00    EK 1502 C - WN00    EK 1503 C - WN00



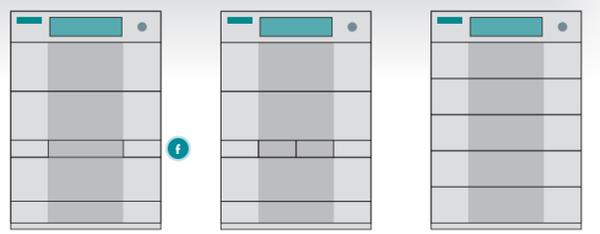
EK 1504 C - WN05    EK 1505 C - WN00    EK 1508 C - WN00



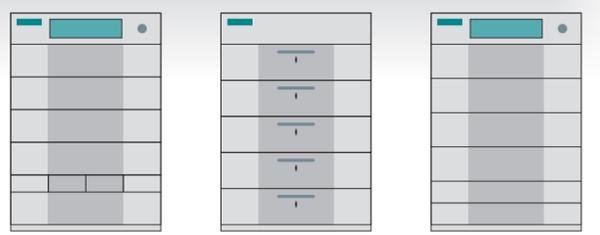
EK 1508 C - SB00    EK 1509 C - UA01    EK 1509 C - UA00



1555 C - PR00    1555 C - EK00 - N    1557 C - ZB05



1557 C - ZB03    1557 C - ZB04    1558 C - PR00



1558 C - OB00    1558 C - EK00    1559 C - KB00

## build your own timer lock safe

STANDARD BODY

LAYOUT

3D MODEL

PRODUCT

we produce

# EK 1500 Inner equipment for timer lock safes

**KOVAL** systems



Metal caskets for EK 1500 timer lock safes are made of 1mm thick sheet metal plate. Cover of the casket can be mounted on body with hinges or it can be designed as removable. Caskets are equipped with lock and practical plastic handle. For special use, caskets can be designed according to customer's requirements.

Double-deck casket (ZK WN C3 1) is equipped with lockable deposit slots and anti-fishing shutters to avoid pulling out the inserted bank notes.

## ZK S - collection caskets with sorting



ZK01 S1



ZK02 S1



ZKEU S3



ZK04 S2 - removable cover

## ZK U - collection caskets without sorting



ZK01 U1



ZK02 U1

## ZK A - half size collection caskets



ZKZB A2



ZKEU A3

## DK - donation caskets



DK01 U1

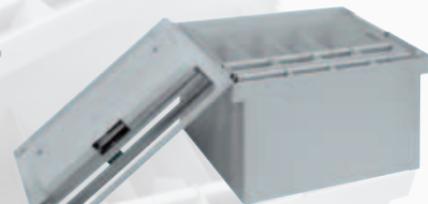


DK02 U1

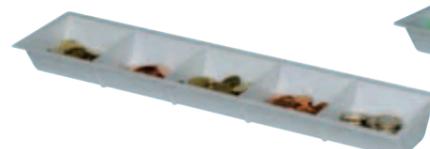
## ZK C - double casket with deposit slots



ZKWN C3 1



## M - trays for office items



M1



M2

## B - banknote holders



B 201



B 401



B 402



B 010



B 301



B 310



B 315



B 315 A



B 320 - half drawer



B 321 - PIN envelop



Plastic equipment for timer lock safes is based on EK 2000 product series and is represented by plastic trays, banknote holders and card registers.

Coin holders are produced for currencies of following countries:  
PL, H, CZ, HR, EU, RUS, GEO, BiH, etc.

Model	Dimensions (H x W x D) mm	Weight (kg)
ZK01 S1	90 x 365 x 305	3,0
ZK02 S1	160 x 365 x 305	4,0
ZKEU S3	160 x 365 x 420	3,9
ZK04 S2	85 x 365 x 305	2,9
ZK01 U1	90 x 365 x 305	1,9
ZK02 U1	160 x 365 x 305	2,3
ZKZB A2	375 x 150 x 425	3,5
ZKEU A3	150 x 180 x 415	2,35
DK01 U1	90 x 365 x 110	1,4
DK02 U1	160 x 365 x 110	1,8
ZKWN C3 1	250 x 410 (305) x 345	12,0

Model	Dimensions (H x W x D) mm	Weight (kg)
M1	35 x 410 x 100	0,1
M2	35 x 410 x 100	0,1
B 201	135 x 430 x 260	1,2
B 401	135 x 430 x 260	1,2
B 402/X	135 x 430 x 260	1,15
B 010	135 x 430 x 260	1,0
X - Code of coin holder currency		
B 301	70 x 425 x 260	1,1
B 310	70 x 425 x 260	0,85
B 315	365 x 435 x 70	1,11
B 315 A/X	365 x 435 x 70	2,3
X - Code of coin holder currency		
B 320	435 x 155 x 70	0,7
B 321	435 x 260 x 70	1,2

