

ASSA Access Control Concept 4 Systems



Airports



Warehouse & Storage Facilities



Weapons Storage



Correction Facilities



Access Control Key By-Pass



Manufacturing Plants



Narcotics Storage



Communication Towers



Evidence & Record Storage



Computer Rooms



Unique
Serial
Number

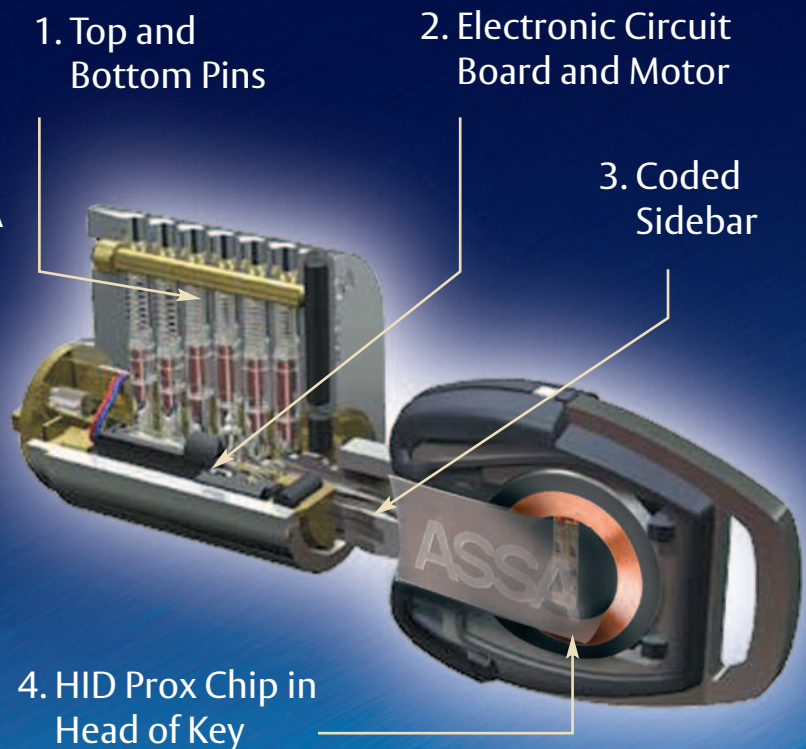
Accessible
Doors

ASSA Concept 4 Specifications

Concept 4 (C4) is a registered trade mark of Assa AB and ASSA, Inc. It is defined by four elements within the ASSA Concept 4 system.

CLIQ is a Registered Trade Mark of ASSA ABLOY. CLIQ is the firmware platform that all electromechanical door lock cylinder systems are derived from.

The combination of the Concept 4 and the CLIQ technology together make up the ASSA Concept 4 CLIQ cylinder and keys. Below are some unique features that are standard in all ASSA C4 CLIQ cylinders and keys.



ASSA Concept 4 Features

- Version v3.2
- Firmware v2.8
- 20K Cycles Each Key Battery
- DES Encryption
- UL437 Mechanical Cylinders
- Non UL437 Mechanical Cylinders
- All Commercial Key in Lever/Knob
- Cam Locks 7/8 Double D only
- UL437 ASSA IC
- HID Prox Chip Embedded in Key Head
- 166K Usable Change Keys Under a Level 2 Master Key
- Software ASSA Proprietary
- Data Transfer 64 Bit or Higher
- Water Resistant Key and Cylinder
- Audit Trail with Date and Time
- Time Zoning
- Ease of Installation
- No Wires
- Power Supply is Provided by the Key
- Can Use Existing Door Prep
- Can Be Part of a Twin Maximum Key System
- Lithium Battery Life 2 Years of 20K Openings
- Lifetime Guarantee on Key Breakage
- Operating Temperatures:
 - 40° Celsius to +80° Celsius
 - 40° Fahrenheit to +176° Fahrenheit

The ASSA Concept 4 Key Bow

The C4 key bow has a new design and is made of ABS plastic which has a high resistance against chemicals, dirt, mud, and impact-strikes.

An internal quartz clock works directly with firmware platform software providing audit trail with time and date stamp, expiration date and a schedule function. The key also has double signal systems which includes an LED and buzzer.

With the new design of the electronics inside ASSA is able to offer a wider range of cylinders utilizing the ASSA C4 function.

Advanced Encryption That Counteracts Manipulation

Encryption is a classic method to keep sensitive information concealed. Modern technology has made everyday use of advanced mathematical encoding systems possible wherever information must be kept secret, for instance in connection with electronic transactions.

Limitless Flexibility and Security

The ASSA Concept 4 is flexible and its easy-to-use system. Solutions can be applied almost anywhere – commercial workplaces and institutions, industries and housing complexes. ASSA Concept 4 can be used to lock safes as well as doors, gates and even padlocks. There are few limits to the security system based on ASSA Concept 4 technology.

Reliable Security

ASSA Concept 4 technology's basic idea is the creation of an intelligent security system. This means a lock system that retains a high level of integrity despite upgrading, alterations

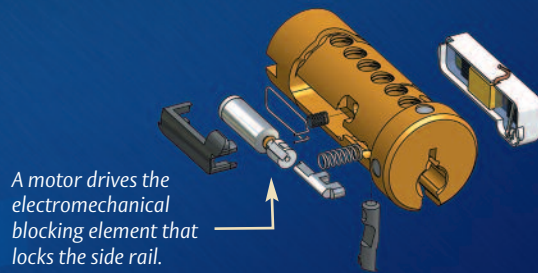
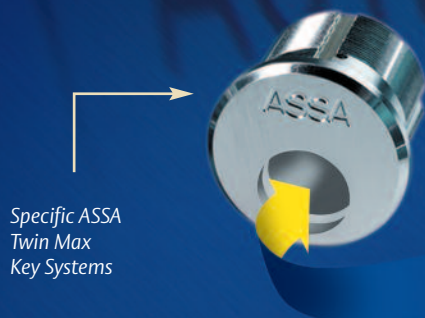
or expansion. Even after many years of use by a continual flow of new tenants, new employees or changes occurring in the workplace, the level of security will remain the same.

Electronic Intelligence Without Wires

CLIQ technology is made possible by miniaturization of the electronic components. Electronic intelligence has been built into the system with help from electronic circuits in both the key and cylinder.

Keys With Double Technology

The ASSA Concept 4 key has the same type of mechanical coding as an ASSA Twin key; a system code and a side code. In addition, the key has an electronic code programmed into a memory chip in the key bow as well as a mechanical side code. The memory chip controls an electronic side code that complements the mechanical system code.



Electromechanical Blocking

The cylinder has a built-in electronics package. This package communicates with the electronics in the key and activates a small electric motor that drives an electromechanical blocking element that locks the side rail. All of these components are integrated in the lock cylinder and are well protected against manipulation.

Concept 4 Keys and Programing Unit



Programing Unit
A programing unit for programing of U-keys (user keys) and cylinders (via a cylinder-specific contact).



Demo unit

Programing a cylinder is a simple procedure; load the cylinder with new information by using the C-key.

In a typical company where people are constantly moving around, a flexible access administration program is very important to you and your security.



C-Key



Contact Key



User Key



Master C-Key



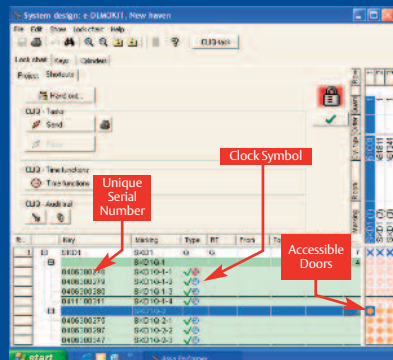
Distributor Key

The ASSA Family of High Security Products

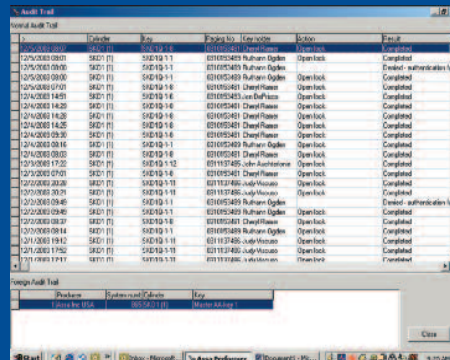
ASSA Concept 4 intelligent locking systems gives control over all keys, which can easily be upgraded and tailor-made to suit any needs. Since every key has its own identity, it becomes the “personal property” of the key holder. ASSA Concept 4 makes intelligent, flexible and high security lock systems possible.



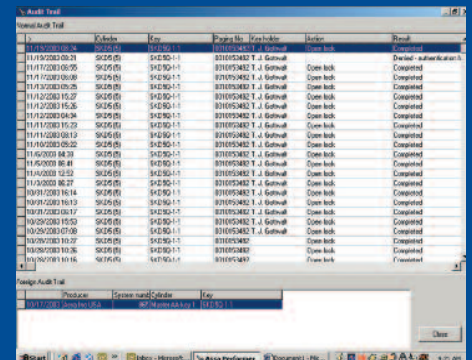
ASSA Concept 4 Firmware Platform Software



(Figure 1)



(Figure 2)



(Figure 3)

ASSA CLIQ Firmware Platform Technology offers the software base to interface with your computer and the programmer in order to keep track of all functions of the cylinders and keys. This firmware is owned by ASSA ABLOY World Wide and shared by all group companies.

The Lock Chart (Fig 1) shows the basic screen with the serial numbers keys on the left and the cylinders on the right. The intersecting squares show you the status of the key and cylinder.

The Cylinder Audit Trail Chart (Fig 2) shows the date and time an ASSA Concept 4 key was inserted into the cylinder and the action the cylinder took with that key. This chart holds 1000 transactions and drops off the oldest transaction once the cylinder reaches 1001 transactions in its memory.

The cylinder also keeps track of Foreign Audit Trail, which means if a key from any other system is inserted into the cylinder it will be registered. The cylinder will register ten of these transactions in its memory and drops off the oldest transaction once cylinder reaches eleven.

The Key Audit Chart (Fig 3) shows the date and time for every ASSA Concept 4 cylinder the key was inserted into and the action the cylinder took when it received this key. This chart holds 100 transactions and drops off the oldest transaction once the key reaches 101 transactions in its memory. The key also keeps track of Foreign Audit Trail, meaning that if the key is inserted into a cylinder from any other system, it will be registered in the key. The key will register ten of these transactions in its memory and drops off the oldest transaction once the key reaches eleven.

Advanced Encryption that Counteracts and Protects Against Interrogation

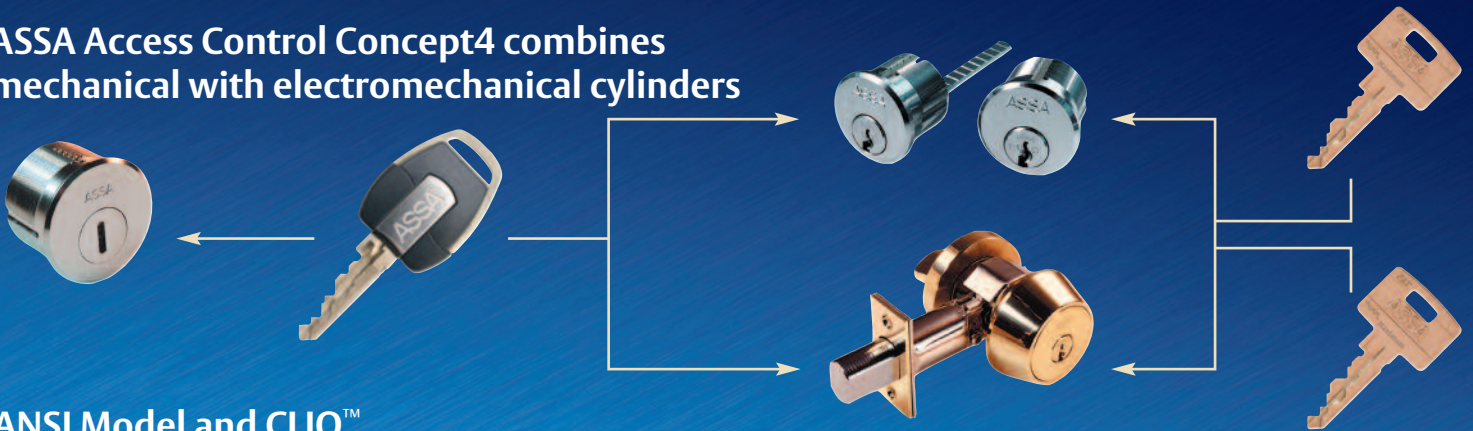
Symbols for Time and Prox Functions

Laser Engraved Sequential Profile

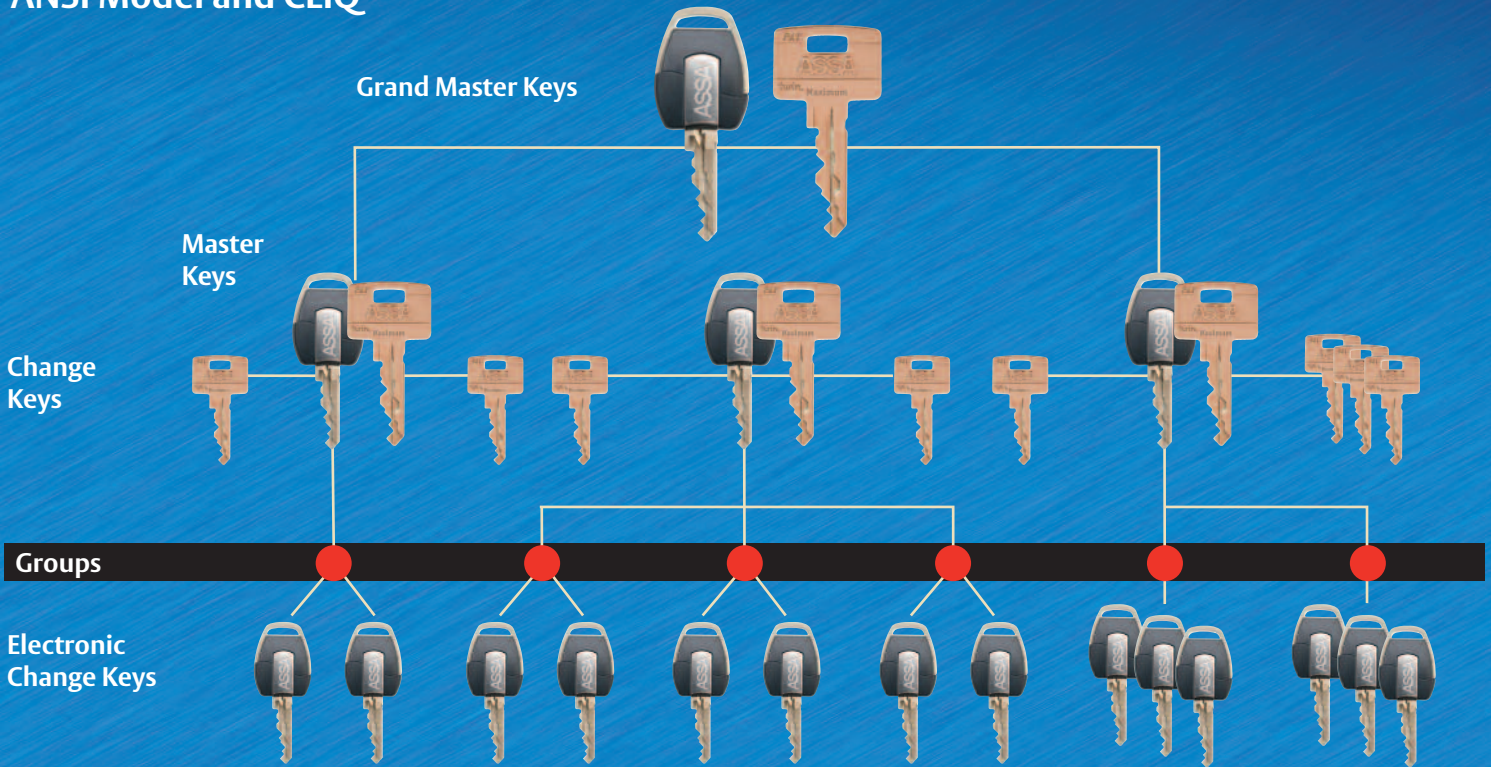
Year-Month-Day Pagination



ASSA Access Control Concept4 combines mechanical with electromechanical cylinders



ANSI Model and CLIQ™



ASSA ABLOY, the global leader in door opening solutions

ASSA ABLOY is the global leader in door opening solutions dedicated to satisfying end-user needs for security, safety and convenience.

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