



# Medeco 4<sup>®</sup>

More Secure with the Power of 4

LFIC | KIK | KIL | Rim and Mortise | Padlock | Deadbolt

**medeco**<sup>®</sup>

**ASSA ABLOY**

Experience a safer  
and more open world

# The History of Medeco High Security Innovation

When the first Medeco cylinder rolled off the production line in 1968, only a few imagined the magnitude and effect it would have in the security and locksmith industry. The concept of angled cuts, rotating pins, drill resistant steel inserts, a sidebar mechanism, and strong utility patents on the cylinders and keys finally gave security professionals the opportunity to offer a high security locking solution with total key control. These innovative ideas were new to the industry and Medeco quickly became the leader in what is now called the high security market.



1968

Medeco sets a new standard for high security with the invention and patent of the unique Medeco technology

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1985

Medeco raises the high security standard again with the introduction and patent of Medeco Biaxial® technology

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1995

Medeco KeyMark brings patented key control to Small Format Interchangeable Core (SFIC) applications

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2003

The Medeco<sup>3</sup> new patent and technology raises the standard again for high security and master key systems

2005

Medeco X4® offers a new patent for key control, a dual-locking technology and four times more master-keying size and flexibility

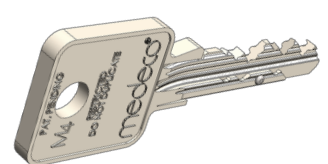
2006

Medeco<sup>3</sup> BiLevel introduced the ability to offer dual-level physical security utilizing a single key system

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2021

The Medeco 4® high security cylinder is introduced. The M4 high security cylinder is UL 437 listed ANSI/BHMA 156.30 Level A certified, and has patented key control (protected to 2040). It also includes enhanced new features that help protect against future threats



# Medeco 4 - The Standard in High Security

Medeco has built on more than 50 years of lock engineering innovation and takes security to the next level, offering the highest level of protection against physical attack and unauthorized key duplication with Medeco 4® (M4).

M4 cylinders are UL 437 Listed with solid brass construction and hardened-steel inserts to thwart drilling attacks. In addition to bottom pins that lift and rotate, M4's design includes 4 Side Pins made up of 3 Finger Pins and 1 Lift Pin. The Lift Pin is activated by contact with the movable element in the key, providing high level key duplication integrity. The Finger Pins work with secondary side cuts on the key to provide increased security and greater potential combinations.

The patent-pending M4 key with its movable element protects against the emerging threat of 3D printing, for added credential security. Passing UL 437 and ANSI/BHMA rigid testing procedures affirms M4's ability to protect people and property.



## **Patented Key Control**

Patent-pending key control protects against unauthorized duplication of keys (through 2040)



## **Uses Existing Hardware**

M4 cylinders are available in a wide variety of formats; retrofits most hardware on the market.



## **Physical Protection**

M4 cylinders are UL 437 listed for protection against drilling, picking, and other forms of physical attack.



## **Expanded Master Keying**

M4 cylinders can be master keyed into a system that includes M4, BiLevel, and M4 CLIQ\* keys and cylinders. Very large systems are possible.



## **Picking and Bumping Protection**

M4 cylinders use cylinder side pins, a shuttle lift pin and a movable element in the key (all engaging with a sidebar) to prevent opening until the elements are rotated and aligned in the correct position, protecting against bumping, picking, and other attacks.



## **Deters 3D Printing**

A patent-pending movable element in the key deters unauthorized 3D printed copies of keys or blanks.

# Technical Information

## Cylinders:

- UL 437: – Underwriters Laboratory Standard for a high security cylinder's ability to resist physical attack
- ANSI/BHMA A156.30 & 156.5 rated – Meets or exceeds criteria for strength and durability, key control, and surreptitious entry resistance
- Solid brass machined construction
- Biaxial-style split pin tumblers
- Exceeds 100,000 cycle endurance testing

## Keys:

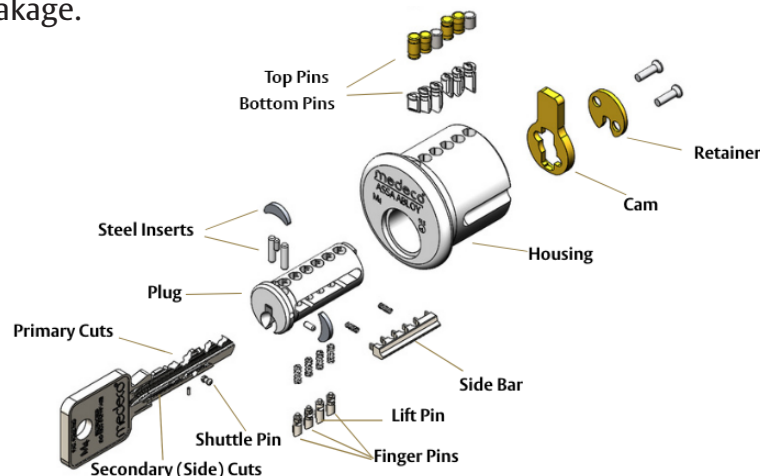
- Angled, offset cuts on key blade
- Movable element on blade provides 3D key and key blank copy protection
- Patent-pending protection against duplicate keys
- Unique keyway pre-cuts using side cuts
- Secondary bitting/side pins in four positions (6 pin cylinders)
- Expanded master keying capability

## Applications:

Medeco 4® cylinders are available in a wide variety of formats and are ideal for any application requiring key control and a high level of physical security. They are upgradeable to electronics with M4 CLIQ\*.

## Warranty:

M4 cylinders are warranted for two years against manufacturer's defects. M4 keys have a lifetime warranty against breakage.



\*Coming soon

# Protect Your People. Protect Your Assets. Protect Your Information.

The patented Medeco 4® key and lock system is an innovative solution that provides high security and sound peace-of-mind. M4 is ideal for a wide array of applications. The **B<sub>L</sub>** symbol indicates the application is ideal for M4 high security cylinders and M4 BiLevel (see the following page for details).

## Life Safety **B<sub>L</sub>**

Confidently secure the most valuable of all things, people. Patented and innovative keying capabilities allow over 2 million change keys under a single master key or one keyway. A156.30 & 156.5 helps keep people safe behind cylinders that are certified to be durable and attack resistant.



## Critical Infrastructure

There are 16 sectors officially designated as vital to the safety and secure operation of the United States. Incapacitation or destruction would have a debilitating impact. M4 high security features put a proven barrier in the way of physical attack.



## Government **B<sub>L</sub>**

Retrofit existing locks in governmental facilities with the high security M4 system. Make the retrofit easy by replacing just the cylinders, while keeping the existing hardware. Classified documents, dangerous chemicals, and munitions all become more secure with M4 technology.



## Healthcare **B<sub>L</sub>**

Protect vital health records, expensive equipment, and controlled substances. Don't let a lock stand between your facility and compliance with regulations and certifications. Unique keyways, with side cuts, make M4 keys very difficult to duplicate, giving your facility confidence unauthorized access is unlikely.





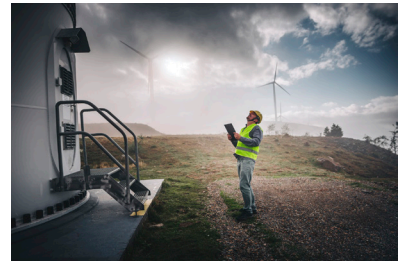
## Data Centers **BL**

We live in a world that dumps much of every day life onto computers and servers. Protect the destruction of data and the direct infiltration of secure information.



## Utilities

Unauthorized access to vital utilities can be devastating to a community. With M4 patented key control, ensure unauthorized access is eliminated and your community is safe and confident in its utilities.



## Business **BL**

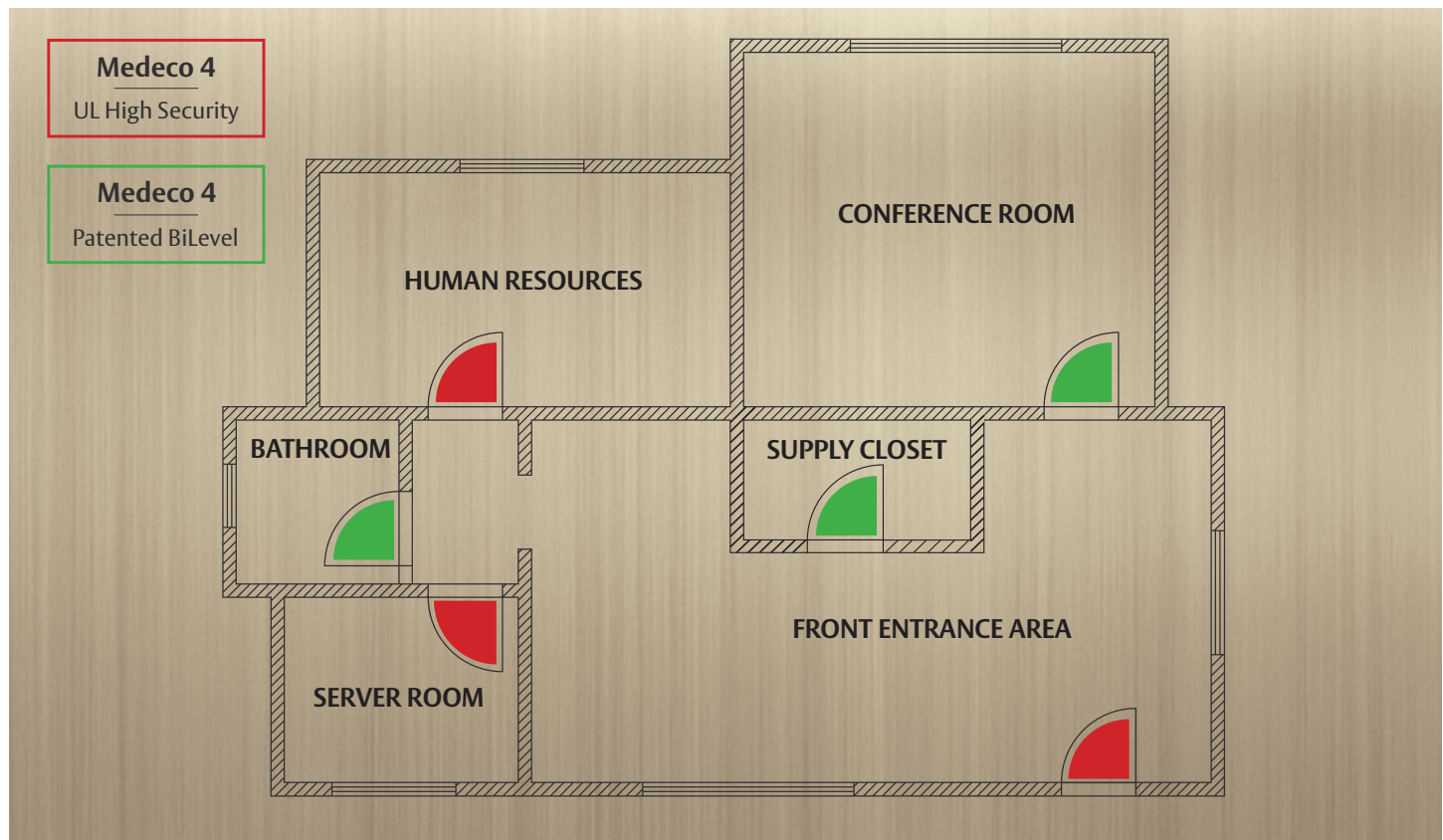
Whether it's a corner grocery store or 20-story office building, ensuring the safety of your people and goods is paramount. UL-listed M4 cylinders feature strategically placed hardened steel inserts to help prevent attacks.



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# Flexible Security For Every Facility

Medeco 4® offers two levels of protection, blending high security and convenience into one key system.



# Add an Extra Layer of Security to Medeco 4

While Medeco 4® is truly high security and offers protection from key duplication, if keys are lost or mismanaged, the system is rendered ineffective.

Supplement your M4 system with the Intelligent Key Cabinet (IKC) and SimpleK software.

## IKC

The Intelligent Key Cabinet (IKC) from Medeco is a robust and flexible key management system that increases accountability and reduces the risk of misplaced keys. It's ideal for keys and other assets that require a high level of security and accountability.

### A complete storage and control solution, the IKC:

- is an electronically controlled steel cabinet
- restricts access to keys
- can only be opened by authorized personnel using PIN, Biometric Fingerprint, or Prox Card authentication (optional)
- electronically keeps a record of key removals and returns
- improves employee efficiency and lowers operating costs
- helps improve key accountability by letting you know who has keys and by sending alerts for unreturned keys
- can store up to 512 keys

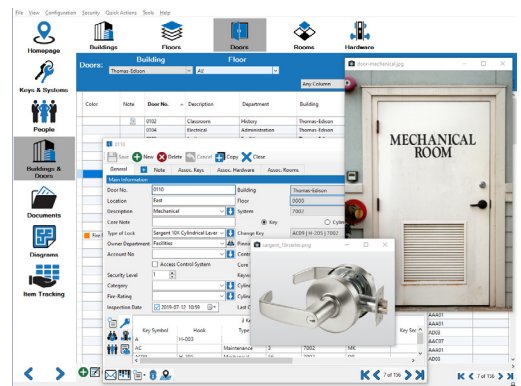


## SimpleK

Take control of your keys, systems, buildings and assets with this innovative and powerful software.

### SimpleK provides solutions for:

- Master Keying & Institutional Locksmithing
- Facility Access Management
- Hardware Tracking
- Key Management
- Asset Tracking
- Easily ID keys, access, and hardware on openings



### Who needs SimpleK?

- Governments, State & City Agencies
- Schools, School Districts, Universities & Colleges
- Utility Companies (Electricity, Water, Gas, Telecom, etc.)
- Health Centers & Hospitals
- Hotels, Casinos & Resorts
- Industrial Companies, Factories & Corporations
- Airports, Museums, Real Estate Company, etc.

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

**ASSA ABLOY**

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Customer Service: 1-888-633-3264

[www.Medeco.com/M4](http://www.Medeco.com/M4)

Founded in 1968 and based in Salem, Va., Medeco is a market leader in mechanical and electronic locks and locking systems for security, safety and control. The company's customer base includes wholesale and retail security providers; original equipment manufacturers; and institutional, commercial, industrial and residential end users.

ASSA ABLOY, the global leader in door opening solutions

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