



Intelligent High Security



MUL-T-LOCK®

Meeting the many challenges of Advanced High Security

Rising to the challenge of the global marketplace – where High Security and smart protection are fast becoming a must, Mul-T-Lock has developed the truly modern solution: **MT5® CLIQ® - for Intelligent High Security.**

The new MT5 CLIQ - a strong combination of Mul-T-Lock's 5th generation MT5 mechanical High Security platform with the innovative electromechanical CLIQ - now offers users a new level of security and access control, all at the CLIQ of a key!

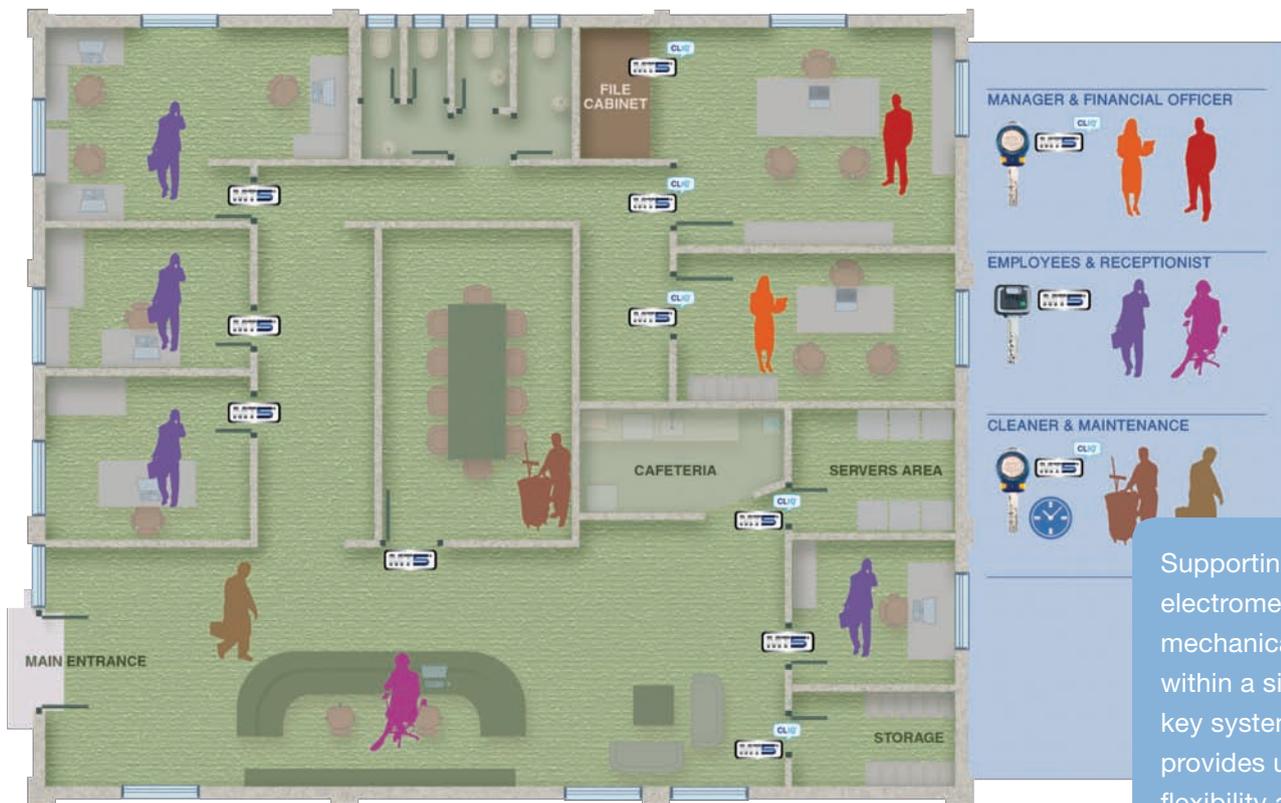
The MT5 CLIQ means robust mechanical security and the enhanced protection provided by an immense number of possible locking combinations - thanks to the double and triple mechanical locking mechanisms of the MT5 platform. Exceptional master keying capabilities enable the construction of vast and complex master key systems for large projects and organizations. Plus, for long lasting peace of mind: **The key control patent will only expire in 2025!**

With our customers worldwide always foremost in our minds, we have designed the MT5 CLIQ to meet the needs of users everywhere. An essentially international, multi-application solution, it may be integrated with a wide range of products: Euro cylinders, mortise locks, switches, padlocks and more. And loyal customers who have already installed MT5 / MT5+ solutions on their premises, may easily upgrade their security by incorporating the new product into existing systems.

MT5® CLIQ®
now brings High Security to your doorstep – with solutions that lead the market in reliability, adaptability and affordability!

- **Control all access authorizations** by individually programming every MT5 CLIQ key and cylinder.
- **No need to replace or disassemble cylinders to disable a missing key.** Just cancel the key through the computer – and the system is just as secure as before!
- **No need for complex & costly wiring or door & frame preparation.** Installing MT5 CLIQ is as easy as installing a regular mechanical cylinder!
- **Catch the thief!** The accurate records produced by MT5 CLIQ's audit trail tell you exactly whose key opened the lock, and when.
- **Upgrade your mechanical master key system selectively and cost-effectively** by installing MT5 CLIQ on specifically chosen doors, as needed.
- **Supervise outsourced service providers.** MT5 CLIQ's time window and audit trail capabilities make sure that the person you hired arrives on time to do the job.

Unrivaled Flexibility, Superior Security



Supporting a mix of electromechanical and mechanical cylinders within a single master key system, MT5 CLIQ provides unrivaled flexibility and superior security in one affordable solution.

System Features & Benefits

MT5 CLIQ is a flexible and secure electromechanical cylinder system offering an array of advanced features and benefits:

- **Audit trail:** Tracking the use of each key and cylinder, the system creates an audit trail for improved security and control.
- **Time-based authorization:** Designating specific access windows according to weekly schedules for cylinders and keys provides enhanced protection and flexibility.
- **Electronic key cancellation:** Allowing the immediate electronic cancellation of a lost key eliminates costly and time-consuming replacement of installed cylinders.
- **Service personnel keys:** By easily creating or canceling time-based keys for service personnel, administrators can better manage outsourced services.
- **Sequence lock:** By allowing cylinders to be opened only following the insertion of specific keys in a specific sequence, the system provides an extra level of security.
- **In-key battery:** A replaceable, long-life battery in each key serves as the sole power source for the entire key and cylinder system.
- **Dust/water resistance:** Including cylinders with an IP55 rating and keys that can be immersed in water. The durable system can be deployed outdoors.

Value-Added Components



Management software: The PC-based software enables administrators to efficiently grant or cancel user access, define varied time-based access windows and track user activity.



Master C-key: Held by the system's master manager for overall system management, the master C-key grants authorizations to system managers through their C-keys.



Control keys (C-keys): Password-activated keys held by system managers, C-keys securely carry information from the management software to the deployed cylinders and back, and authorize the programming of user keys.



Programming device (PD): A hardware PD serves as the physical link between data stored in the software and all keys and cylinders deployed in the field. Since the PD does not store received data, system security is not compromised.

An Array of Applications

MT5® CLIQ® addresses the diverse needs of varied organizations and applications



Intelligent cylinders: A self-contained microprocessor authorizes keys based on their ID codes and schedules, and stores all interactions in its memory. Requiring no wiring or reconstructing of doors, the cylinders install with ease like mechanical cylinders.



User keys: Designated for one user only according to predefined schedules, each key contains a unique electronic ID and is encrypted with tamper-proof codes. When a key is lost, it is immediately rendered obsolete, and a new user key can be generated.



SynerCLIQ keys: SynerCLIQ keys incorporate a radio-frequency ID (RFID) transponder, thereby eliminating the need for users to carry an additional RFID tag for engaging other access control or time and attendance systems.



- Hospitals and medical centers
- Commercial offices
- Government facilities
- Apartments and condominiums
- Academic campuses
- Schools and daycare centers
- Museums and heritage buildings

- Remote communications & infrastructure sites
- Casinos
- Airports
- Retail stores and restaurants
- Distribution centers and warehouses
- Industrial plants
- Banks
- Correctional facilities



Advanced CLIQ Technology

MT5® CLIQ® integrates the innovative and proprietary CLIQ technology developed by ASSA ABLOY with the patented MT5® mechanical locking systems developed by Mul-T-Lock. CLIQ technology is based on miniature microprocessors embedded directly inside the key and cylinder cores, creating an intelligent electromechanical system that is flexible and secure.

How it Works

1 The key is inserted into the cylinder; when the cylinder's pin meets the key's contact strip, an electronic wakeup signal is sent.

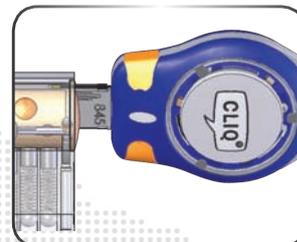
2 The cylinder wakes up and sends a random 64-bit number to the key.

3 By using the 3DES encryption algorithm, the key encrypts the number and sends the encrypted response back to the cylinder.

4 The key's response is compared to the cylinder's encrypted number.

5 If there is a data match and the key is authorized within the current time window, the blocking mechanism is released and the key can turn the cylinder; if not, the cylinder will remain locked.

6 A log of the activity - including user, data and time - is automatically stored in the memories of both the cylinder and the key for later retrieval.



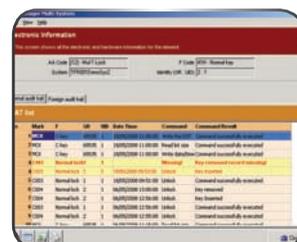
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Technical Specifications

Key control	Patented
Encryption technology	3DES
Power supply	Cylinder: not required / In-key: low-cost, easy-to-replace, long-life CR2032 3V lithium battery at head
Battery life	2 years / 20,000 cycles
Temperature range	-30°C to 70°C / -22°F to 158°F
Audit trail (in cylinder and key)	Normal memory: 100 events Extended memory: 1000 events
Cylinder installation	Approx. 5 minutes by professional locksmith (same as mechanical cylinders) No additional door hardware or structural changes required
Cylinder applications	Euro, rim, mortise, Swiss, ASSA, Fichet, RIMO, Center 29, Hercular, E-Series, G-Series, deadbolt, Schlage ICC, Yale KIK, Arrow KIK, Switch, Cam, drawer lock, showcase lock and more
Cylinder length	31x31 mm and up
Cylinder veneers and finishes	Most common available such as nickel satin (NST), shiny brass (SB) and nickel chrome (NC)
Warranty	2 years
Dust / water resistance	Cylinders: IP55 rating Keys: can be immersed in water without damage
Software requirements	OS Windows 2000, Windows XP, Server 2000 or Windows Vista

Key Types & Features

	Audit Trail	Weekly Schedule	Extended Memory	Authorized Lock List
User	✓			
Quartz	✓	✓		
Quartz+	✓	✓	✓	✓
SynerCLIQ®	Can be implemented in any of the 3 key types above Incorporates a third-party RFID sticker transponder up to 20mm in diameter			

PARTNER WITH A LEADER

- ▶ A member of the world leading ASSA ABLOY Group
- ▶ One of the top 10 High Security locking solution companies in the world
- ▶ Over 3 decades of innovative High Security
- ▶ More than 500 patent registrations worldwide
- ▶ Serving every sector: industry, commerce, institutions, OEMs, residential and automotive
- ▶ 10 selling units, 20,000 service centers, 5 continents, almost 100 countries

With its readiness to rapidly respond to any challenge, Mul-T-Lock provides peace of mind through offering comprehensive, customized, top security cylinder and locking solutions and service worldwide.

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

www.mul-t-lock.com

Subject to the terms and conditions of the product's warranty.

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