

Billions of combinations. Maximum security.



See how our patent protected masterkey system uses billions of combinations to increase your security and give you maximum security.

EVVA
access to security

The patented masterkey system that offers billions of combinations for maximum security



The more complex a masterkey system becomes, the greater the chance of a key being able to work a lock in your system when it is not meant to do so. It might be a random key on your key ring. It could be somebody else's. And it's a major nightmare when your organisation has thousands of doors to secure and watertight security is essential.

EVVA's unique design generates unmatched key coding flexibility.

EVVA's 3KSPlus masterkey series is specially designed to eliminate this problem.

A unique design generates unmatched key coding flexibility. The result is up to 133 billion possible lock-opening combinations — an immense number that allows the implementation of large and complex security hierarchies, while keeping the chance of phantom keys at a minimum.

Plus, EVVA's patent protected, SCEC approved security makes keys difficult to duplicate without authorisation, and locks nearly impossible to pick or bypass.

At a glance:

The 3KSplus masterkey advantage

- Patent protected, until 2025, and restricted masterkey system
- As many as 133 billion possible key combinations
- Implement a complex security hierarchy
- SCEC approved for government facilities
- Australian standard tested to Sc8 AS4145.2 compliant
- Springless system for longer operational life
- Anti-intrusion case-hardened components
- Wear resistant carbide construction

A masterkey system to protect any facility in any industry

The 3Ksplus system delivers maximum security and billions of key combinations. This is why it's the masterkey system of choice for industries and organisations that demand maximum protection.



Local Government and Government.

Separate divisions may need to control access levels to different offices, halls or depots. EVVA provides this ability.



Hospitals and pharmaceutical.

Exercise strict control over access to utility rooms, service areas and drug cabinets.



Airports.

Secure hangers, gates, server rooms and restricted access areas where maintaining sterile control is critical.



Retail.

Lock down stockrooms and offices in department stores.



Transport & Logistics.

Control access to secure yards, warehouses, depots and gates.



Resorts & Hotels.

Secure rooms, office areas, laundries, kitchens and machinery areas.



Utilities.

Secure power plants, substations and storage at large utilities like water boards.



Schools and universities.

Secure entire school or university campuses while providing different tiers of access for individual departments.





8 reasons why more organisations choose 3KSplus

- 1 Maximum security design.**
3KSplus is a maximum security lock system that uses patented technology to eliminate key bumping and minimise intruders' ability to tamper with, pick, or bypass the lock.
- 2 Ease of use.**
Rounded key contours and a symmetrical, fully reversible design means 3KSplus keys can be used in either direction.
- 3 Long-life, anti-wear parts.**
The combination of a nickel-silver plug and carbide components instead of brass is why 3KSplus locks have been cycle-tested to 300,000 operations.
- 4 Adaptability.**
3KSplus cylinders suit almost any lock or door, including those of other leading brands.
- 5 Three level anti-copy protection.**
Patents, Correct Authority and the technical complexity of the keys make illicit copying extremely difficult.
- 6 Hardened components.**
Hardened metal elements provide exceptional resistance to drilling, impact, or plug-pulling attacks.
- 7 Low chance of phantom keys.**
The use of sidebars and sliders means 3KSplus scales to a huge size without phantom keys compromising security.
- 8 SCEC approved.**
Australian Standard approved Sc8 AS4145.2

Easily create sophisticated masterkey hierarchies

A large local council upgrades the locks at all of its facilities and assets, uniting every lock under a single, cohesive and easily managed high security masterkey system.

The council uses 3KSplus to replace more than 13,000 locks in every depot and office, and issues 20,000 individual user keys as well as hundreds of separate masterkeys.

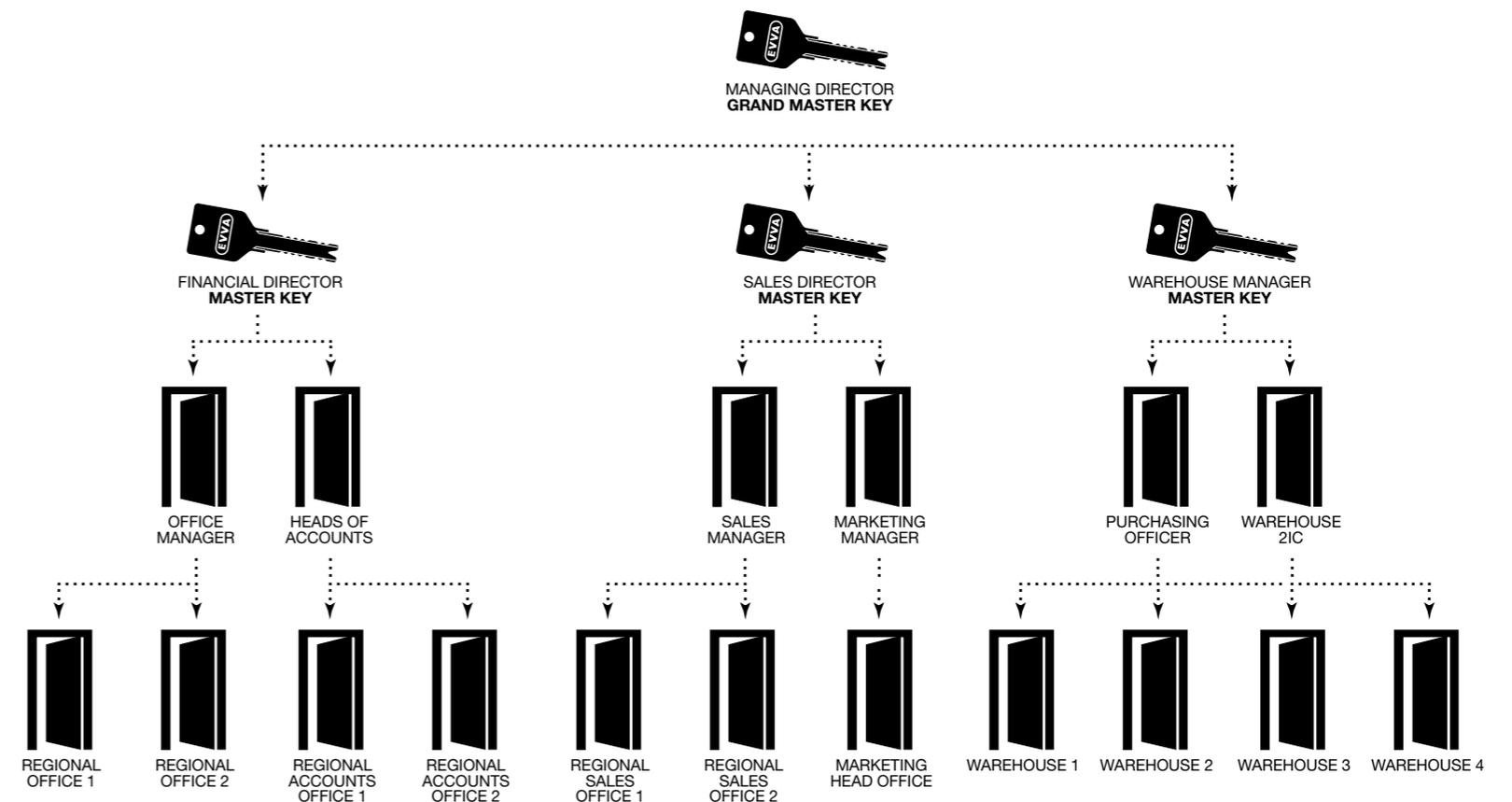
Each masterkey has its own unique set of access permissions: some allow office managers unrestricted access to their particular section (but nowhere else); some are for contract cleaners restricted to specific areas; others are for security guards with very broad access requirements.

A 3KSplus system enables locksmiths to make specific masterkeys that

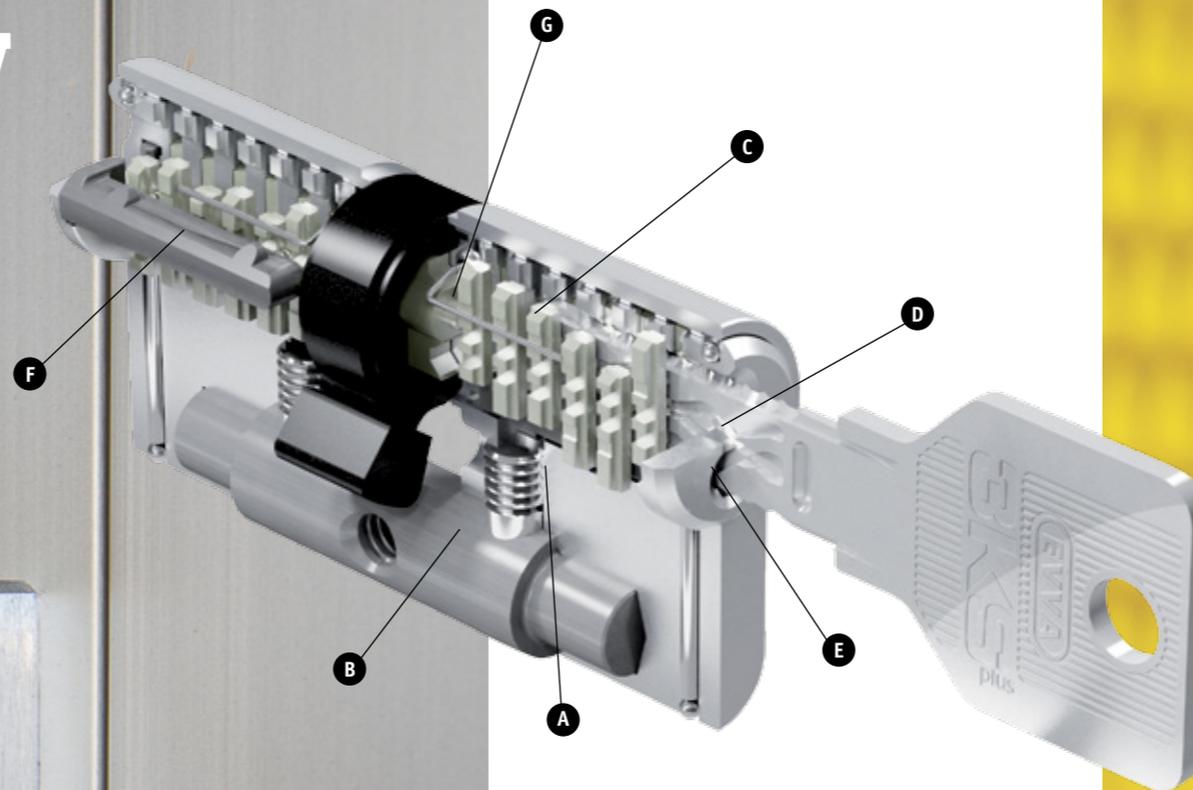
meet any of these requirements — whether a user needs access to just 3 locks within the system, or as many as 3,000.

Critically, the patented design and keying algorithms that drive the security of the 3KSplus minimise phantom key risk in even these large and complex security systems.

Other masterkey systems cannot adequately handle this sort of hierarchical complexity, as the system scales, the possibility of phantom keys occurring becomes rapidly and unacceptably large.



3KSplus: the ultimate in masterkey security



- A** Springless carbide sliders resist key bumping and strengthen anti-pick characteristics.
- B** Only 16 moving parts deliver longer lock life, even in extreme conditions.
- C** Hardened steel sidebar blocking pins prevent drilling and plug-pulling.
- D** Key curves and multiple broaches provide greater key code expansion.
- E** Carbide sliders and nickel silver barrels create smooth, low-wear key insertion.
- F** Flat radial key tracks for wear resistance and longer operational reliability.
- G** Symmetrical key pattern and twin rounded key tips enable easy use.

When organisations require maximum intrusion-resistance and flexibility in a masterkey system, they choose 3KSplus.

Unlike conventional locking systems, 3KSplus uses a unique pinning system of springless carbide sliders that activate two sidebars to eliminate key bumping and make picking and scanning attacks difficult and time consuming.

Unlike conventional systems, the addition of these broaching sidebars means 3KSplus offers an astonishing 133 billion theoretical key combinations. As a result, organisations can use 3KSplus to install complex locking systems with overlapping hierarchies.

Plus the unique three-curve system of 3KSplus allows individualised key profiles. Blanks from one organisation's 3KSplus system will never work in another organisations' system.

How 3KSplus works

When a user inserts their key, 2 control bars in the cylinder scan 6 curves etched into the 3KSplus key and bring 12 solid, springless locking pins into specific positions. An additional bottom bar checks the edge profiles of the key. The 3KSplus key is scanned 4 times during the unlocking action — 3 times more than other systems. Only when all of these match up does the locking plug release.

Three levels of key control

It is extraordinarily difficult to reverse engineer 3KSplus. Moreover, 3 separate systems guard against key tampering and illicit copying by staff, visitors or contractors:



Controlled protection.

Only authorised locksmiths can manufacture keys for their master key systems, with the correct proof of entitlement.



Legal protection.

Through patents and licensing, EVVA restricts the manufacture of 3KSplus keys to a number of authorised locksmiths.



Technical protection.

Key reproduction cannot occur without specialised and expensive machinery.



A 3KSplus system can come with cylinders to suit any of the major lock types



A comprehensive range of cylinders

This includes oval cylinders to suit Lockwood, Kaba, Gainsborough, Legge and Astra mortice locks; rim and internal cylinders to suit Lockwood and other brands of deadlocks and deadlatches; fixed and floating cam profile cylinders; and locksets for Schlage, Carbine and Lockwood locksets.

EVVA can also produce cylinders to suit cupboard locks; T&L handles; padlocks; pushlocks and camlocks, plus cylinders for keyswitches and rollerdoor locks.

All EVVA cylinders are cycle tested to at least 300,000 operations. Cylinders also meet the highest standards for corrosion and fire resistance, and can operate normally in temperatures from -20 degrees Celsius to 80 degrees Celsius.



One of Europe's leaders in masterkey security

Since EVVA's foundation in 1919, the Vienna based Austrian company has grown rapidly to become Europe's third largest manufacturer of keying systems.

EVVA's name derives from a drive for invention, experimentation and application that has underpinned its reputation as a leader in the development of ground-breaking security technology.

A byword for security, EVVA has filed applications for more than 140 national and international patents over its 90 years of operation.

It is the first to attain ISO9001 certification for quality in design and production.

EVVA is exclusively distributed in Australia by the Davcor Group — one of the largest distributors of hardware and security in the southern hemisphere.

Davcor works with a network of more than 85 locksmiths across Australia and New Zealand that are the only people in Oceania authorised to install and service EVVA masterkey systems.



Curtin University finds 3Ksplus the key to its security

Like almost all universities, Curtin University in Western Australia is huge. It has thousands of staff, and more than 47,000 students working and studying across six different campuses. There are six separate faculties, and dozens of different departments.

University Security Supervisor Sean Daly says this makes securing buildings and individual rooms complex and difficult.

As recently as 2011, the University was using 8 different locking systems to secure facilities. Daly says this was not only complicated, but at that point the patent was about to expire on several systems.

This would enable people to get keys cut anywhere without restriction — a definite security risk.

The situation prompted the University to begin investigating an alternative, single system for securing Curtin's 7,000 locks and 300 padlocks.

Daly says that the University initially formed a steering committee to investigate options. They narrowed down several critical requirements. They wanted to install a single system across all six WA campuses, offering strong, reliable security and which had a patent that would not expire for many years.

The last would restrict key replication to just a few licensed locksmiths.

In addition, it needed to offer variety of cylinders types — important in a system as large as Curtin's — and the University would need to retain ownership of the key profile underlying the system.

Their investigations revealed EVVA 3Ksplus as the strongest option that met all these requirements. It also passed the evaluations of an independent security consultant.

Daly's team began the hard work of identifying every door and lock in the University and creating the system matrix that would govern all 14,000-plus keys that would be distributed to staff and contractors.

With the help of the installer, Daly's team divided the campuses into five zones. They would create a masterkey for each zone, then below that a master for every building, then a masterkey for every department. Then would come the individual room keys.

In addition, Curtin commissioned a number of service keys that would work across all campuses in all zones, such as electrical masters.

Daly says the use of zones served a dual purpose.

First, it decreased risk. If one of the zone masters was to be lost, then only 20% of the entire system would be exposed. And only 20% of the locks and keys would need to be replaced.

Also, it significantly increased the expandability of the system, delivering five times as much ultimate capacity.

Rolling-out so many locks and keys is a complex undertaking, but Daly says that since installation began in December 2011, not a single milestone has been missed.

Describing the installer as "terrific" and very flexible to work with, Daly says that their advice on the key matrix and scheduling has ensured a very smooth project. The last of the system is expected to be installed in July 2014 and so far that's on course.

Plus the 3Ksplus system is excellent — no locks have needed to be replaced. It is, Daly says, "very robust, very reliable."



3Ksplus takes the headaches away for centre management

Raine Square is a 21 level commercial-retail tower in the Perth CBD. Centre management required a reliable and secure grand masterkey system for its retail, basement and building services areas. They chose 3Ksplus.

When the 44,000 square metre commercial-retail tower Raine Square was completed in December 2011, the owners needed a strong, reputable masterkey system to secure access to a multitude of building services.

More than 3,500 office workers commute to Raine Square each day,

and the 13,000 square metres of retail space, including Coles and a large food court, sees thousands of shoppers.

They chose 3Ksplus, implementing a complex, tiered grand masterkey system site-wide across Raine Square's tower, basement levels and the retail area.

As well as a grand masterkey to open every lock, they implemented a services masterkey, and individual masters for mechanical and electrical services, for plumbing, communications, fire services and lifts.

Reliability and security has proved excellent for centre management.



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