



ALLEGION™



# Cylinders, keys and access control systems

Security gets smart



## Solutions for residential premises

# Protecting your peace of mind

Choosing the right cylinder and lock for your armoured door is an essential part of protecting your home, keeping your personal belongings safe and guaranteeing peace of mind. CISA offers a wide range of cylinders with different levels of security which effectively protect against external attack and key unauthorised duplication.





## **Solutions for public and commercial premises**

Making access  
management easy  
and economical

Hospitals, shopping centres, companies, universities: CISA provides safe, flexible solutions to make access control simple and precise.

CISA produces a wide range of cylinders which are compatible with different locks, panic exit devices and padlocks, as well as electronic cylinders which allow users to organise and control access throughout the building.

Every project is meticulously managed by CISA thanks to its network of "CISA Solution Partners" throughout the country, professionals who monitor every stage of the project: from initial consultancies to feasibility studies, from offers to after sales assistance.

# Passive security: protecting against forced entry

Feeling safe in your own home and protecting your personal belongings with strong, secure solutions has become a fact of life. CISA cylinders have special devices which protect your house from burglary attempts and meet **the highest security standards.**

## 1 Resistance to tearing: Snap Resistant System

A patented bi-material steel core which is also visible when the cylinder is installed on the door. It guarantees high resistance to tearing: +40% more than standard cylinders.



## 2 Resistance to bumping: BKP

The "Bump Key Power" device increases cylinder resistance to forced entry through "bumping" (percussion) techniques. The special configuration of the springs also means it is highly resistance to wax impression techniques used to force entry.



## 3 Resistance to drilling

Depending on the model, CISA cylinders contain one or more parts (pins, drivers and inserts) in hardened steel, positioned on both sides of the cylinder, which act as an effective deterrent against drill attacks.





1

3

2

# Active security: key duplication

How often do we give our keys to others (tradesmen, cleaners, etc.) who could easily duplicate them and use them without our permission?

CISA guarantees maximum security thanks to solutions which legally protect key duplication.

**Security is guaranteed by patents because a patented key cannot be freely reproduced, but only with the owner's consent.**

Distribution of blank keys is therefore controlled and duplication is safe.

## **CISA SECURITY CARD**

The Security Card has a univocal code linked to the key and must be presented when requesting a duplicate of a patented key. Authorised CISA dealers or CISA Solution Partners will only issue a duplicate key upon presentation of the card.



## CISA AuthentiCard

Available for its top-of-the-range cylinders, AP3 S and RS3 S, AuthentiCard is the ideal most technologically advanced solution to protect keys from any kind of forgery or illegal duplication. It ensures total control and owners have to be identified with a PIN.



### PROTECTS

Keys can be duplicated at CISA AuthentiCard Solution Partners only upon presentation of AuthentiCard and identification of the owner of the key must be verified with the PIN.



### STORES

AuthentiCard stores all performed duplications to the system memory which can be consulted online (for RS3 S cylinders) or at trusted CISA Solution Partners.



### NOTIFIES

If you submit a mobile phone number and/or an e-mail address, you will be notified every time an operation is completed with AuthentiCard.



- Use it with RS3S and AP3S
- Request it from CISA AuthentiCard Solution Partners

# Master keying potential: access management

Flexible, hierarchical access management is of prime importance in large public or commercial premises. In residential environments, having a single key to open all the doors is highly practical.

**CISA master key systems are therefore the most convenient and value-for-money solution to control accesses, while guaranteeing maximum security and protection of the building.**

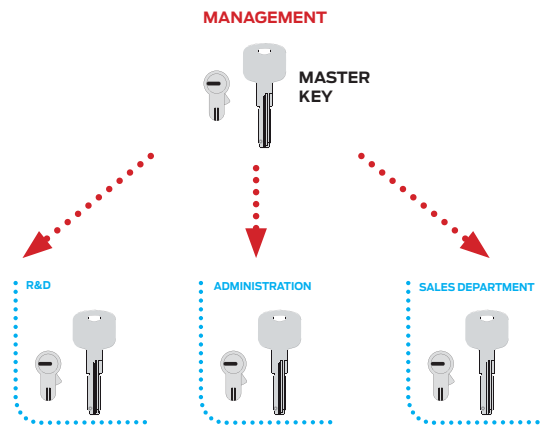
**One key is able to open several accesses** (such as doors, gates and garages) and management is controlled in this way. Only authorised people have access to certain areas.

Furthermore, designing a system which uses a patented key prevents unauthorised duplication.

To obtain a duplicate, the owner has to present his **Security Card** as ID.

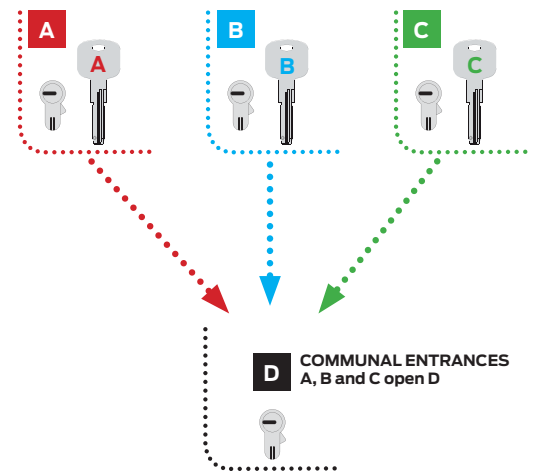
## MK - MASTER KEY SYSTEM

The master key opens all doors. Each door is also opened by a dedicated key.



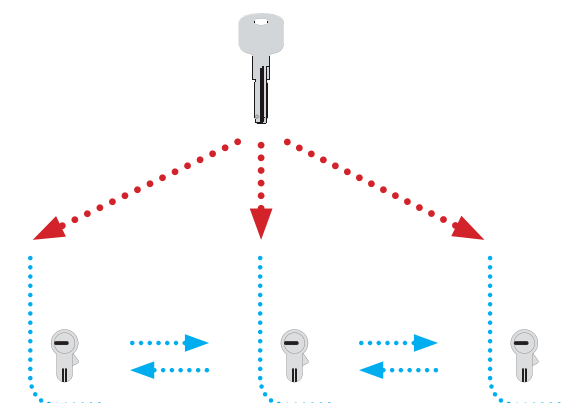
## CE - COMMON ENTRANCE SYSTEM

Each key opens communal areas and your apartment door.



## KA - KEYED ALIKE SYSTEM

One key opens all doors.

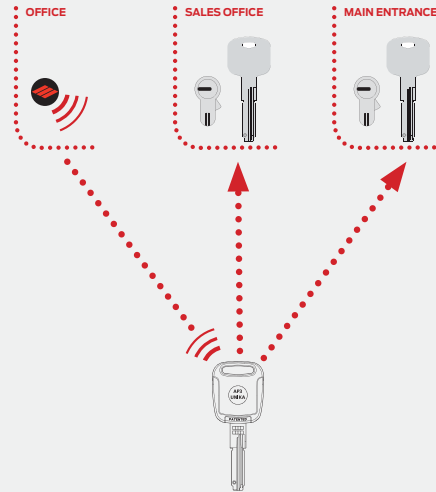




## AP3 UNIKA INTEGRATED SYSTEM

Ensuring secure, flexible management.

Offices, hospitals, hotels, etc. can be managed securely and conveniently thanks to AP3 Unika, which combines a patented mechanical system with the flexibility of electronics, where needed. The AP3 Unika access control system monitors accesses and user profiles and tracks where, who, when and how many times an access has been used.



**Several doors, just one key and the freedom to change access rights whenever you want.**

The key can open all the mechanical cylinders of the master key system and electronic cylinders, thanks to the transponder built into the key bow. With AP3 Unika, the system manager can change access rights of each key, set access time periods and consult the audit trail of the openings, all online.



## CISA Solution Partner Security professionals

CISA Solution Partners are a network of “Security professionals” who provide experience, advice and specific services for key duplication and definition of master key arrangements. Thanks to their extensive experience, they can provide assistance and dedicated service to both private users and public and commercial businesses.



## AP3 Duplication Solution Partners

CISA AP3 Duplication Solution Partners are the only people, apart from CISA, who manage AP3 S key blanks and who can guarantee authorised duplication for private users with AuthentiCard and/or presentation of the Security Card.



## AP3 Systems and Duplication Solution Partners

As well as offering a controlled duplication service, AP3 Systems and Duplication Solution Partners attend special training sessions at CISA and are professionally qualified to manage master key systems

An AP3 Systems and Duplication Solution Partner is the perfect partner for anyone managing public or commercial premises, providing consultancy services, feasibility studies, offers and after sales assistance.

A 'System Matrix' form from CISA. It includes fields for 'System', 'Brand', 'Type of System', 'Material', and 'Comment'. Below these fields is a table with columns for 'Date', 'Start', 'End', 'Start/End', 'No. of Keys', and 'Rate'. The table contains data for three systems: 'Alpha', 'Customer', and 'Laptop'. To the right of the table is a grid for marking 'X' or '✓' in various columns.

System	Brand	Type of System	Material	Comment	Date	Start	End	Start/End	No. of Keys	Rate
Alpha	1	2007-10-01	30-01	2007-10-01						
Customer	1	2008-07-01	30-01	12	8				3	PS
Laptop	1	2008-07-01	30-01	12	8				3	PS
Customer	1	2008-07-01	30-01	12	8				3	PS

# Certifications

ICIM certification, in compliance with EN1303, guarantees cylinder performance through documental checks of the technical specifications, in-company inspections, sample testing and yearly inspections.

European Standard EN1303 sets forth operation and requirements relating to security and reliability of cylinders and their original keys.

This certification offers a variety of benefits: for armoured door manufacturers it becomes faster and cheaper to certify armoured doors according to EN1627 as the certificate makes tests in the cylinder unnecessary. Certification is important for distributors as there are fewer risks of the door degrading due to replacement of the cylinder supplied.

CISA certified cylinders Astral S, AP3 S and RS3 S guarantee compliance to performance as set out in EN1303 over time.



# How to choose the right cylinder

To choose the most suitable cylinder for your requirements, CISA recommends measuring three parameters: security and reliability, based on European Standard EN1303, and master keying potential as far as access management is concerned.



## SECURITY

Cylinder and key resistance to forced entries (European standard EN 1303 - Key Related Security - Attack Resistance).

## MASTER KEYING POTENTIAL

Capacity to manage master-keyed accesses. It is especially important for apartment complexes, hospitals, offices, public places.

## RELIABILITY

Resistance of the cylinder over the years and to wear and tear (European standard EN 1303 - Durability).

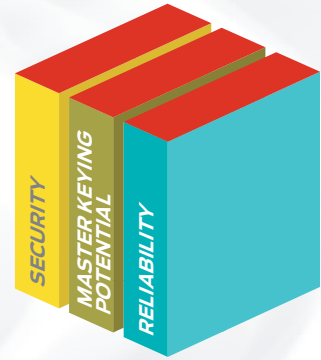


CISA **provides a score** for each cylinder which is shown in a chart illustrating all the parameters. The score from 1 (min) to 5 (max) indicates the performance level of the cylinder and the individual scores are used to calculate the final average score. For example, if you are a private

user looking for the highest level of security and reliability, you choose **RS3 S** whose security and reliability parameters are the highest. If you have a commercial business and you need good master keying potential combined with high security performance, you choose **AP3 S**.

# The CISA range

Based on the level of security and performance shown in the chart beside each product, CISA recommends the most suitable cylinder to meet the specific requirements of each user.



SISTEMA BREVETTATO

RADIAL SYSTEM

PATENTED SYSTEM



## RS3 S

Are you a private user who wants maximum security against forced entry and illegal duplications? Or are you looking for a high performing access management system for your retail business?



REVERSIBLE KEY

PATENTED SYSTEM



## AP3 S

Do you run a company and need a solution that will give you top security, good master keying potential and a highly professional local service?



REVERSIBLE KEY

PATENTED SYSTEM



## Astral Tekno

Are you looking for a product that combines good master keying potential with protected key duplication for shops, homes and medium-sized commercial businesses?



REVERSIBLE KEY



## Astral S

Do you want security and good master keying potential for homes, shops and small offices?



REVERSIBLE KEY



## Astral

Do you need a product with good master keying potential for average security armoured doors or to manage access control for commercial businesses?

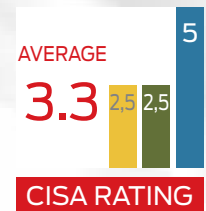


REVERSIBLE KEY



## ASIX

Do you need a simple, reliable product to make secondary accesses in shops, homes and apartment buildings secure?



CONVENTIONAL KEY



## C2000

Are you looking for a basic level of security with good master keying potential to control secondary accesses in companies, shopping centres, universities or hospitals?



## PATENTED SYSTEM

# RS3 S



### DISTINCTIVE FEATURES

- Keys can only be duplicated by CISA on presentation of the Security Card.
- Emergency function, thanks to the clutch system supplied.
- Certified Attack Resistance grade 2, for armoured doors classified 4 to 6 according to the EN1627-2011.

### CYLINDER SECURITY

- High resistance to tearing thanks to the Snap Resistant feature, a dual-material steel core visible when the cylinder is installed in the door.
- High resistance to bumping or percussion as it is impossible to obtain key blanks, difficult to tamper with existing bitted keys to obtain a "power key" and thanks to the high number of small pins set out radially.
- High resistance to the housebreaking technique with imprints or wax, thanks to the number of small pins and the fact they are laid out radially.
- High drill resistance, due to the key biting system (pins and drivers) in hardened steel.
- EN1303: 2005 Attack Resistance: 2.

### KEY SECURITY

- Patented key, protected against illegal production.
- More difficult to clone as it is equipped with a mobile part.
- Radial key biting system, up to 19 pins on 5 rows.
- Up to 8 billion possible combinations, that is different keys.
- EN1303: 2005 Key Related Security: 6.

### MASTER KEYING POTENTIAL

- Maximum capacity, thanks to the radial key biting system, up to 19 pins on 5 rows.
- Up to 85 million different cylinders per master key. Other configurations available on request.

### RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.

### PATENTS AND CERTIFICATES



- Key: patent no. PCT/EP1728944.
- Snap Resistant system: European patent no. EP1583878, Russian patent no. RU2361989.
- ALI key: with shape registered trademark no. B02004C0000802.





# RS3 S Modulo

## PATENTED SYSTEM



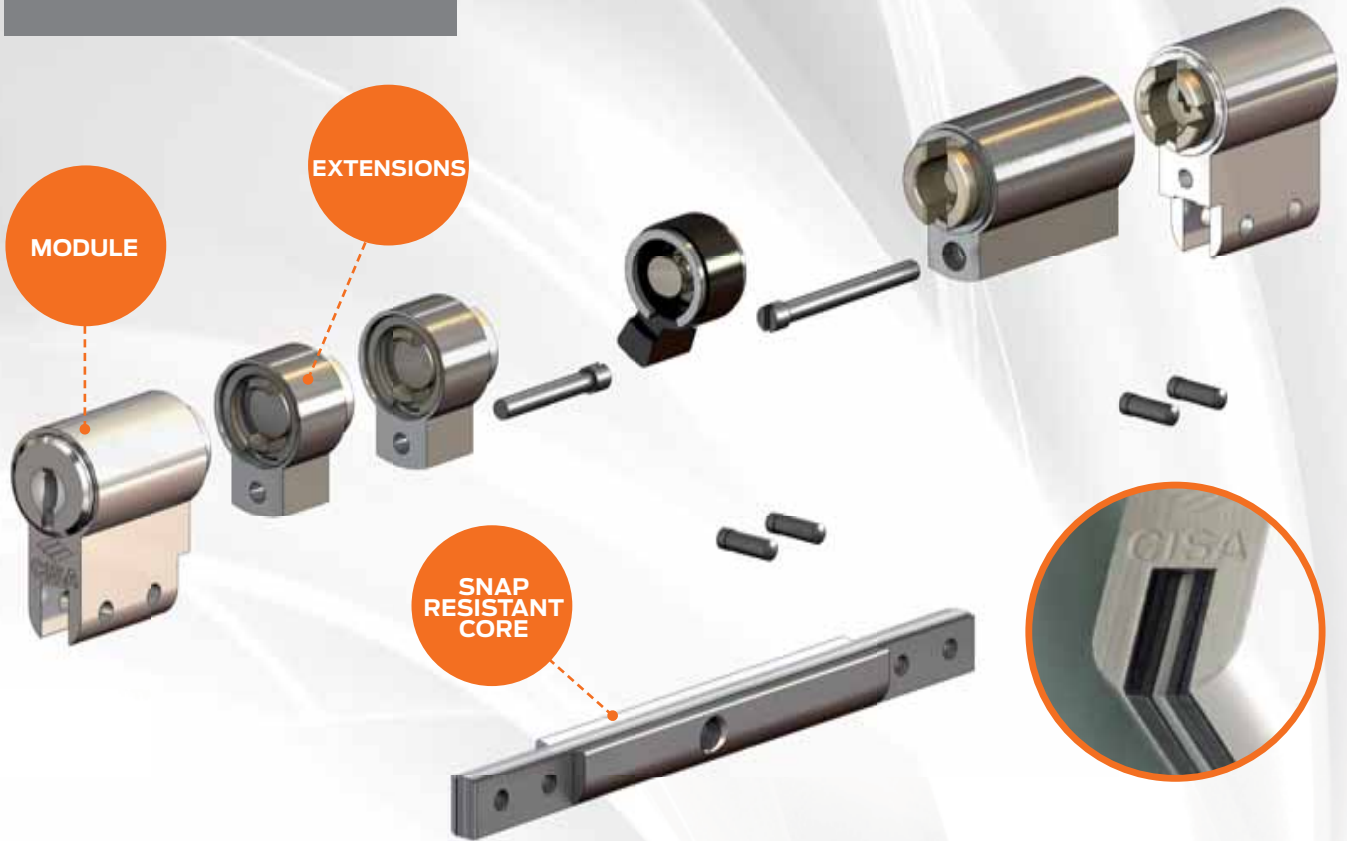
On-site emergency installation



Assembly in under a minute



Same resistance as RS3 S



## BOOST YOUR BUSINESS, STREAMLINE YOUR STOCK

Thanks to its configuration, RS3 S Modulo will help you maximise your business opportunities without any extra stock requirements, reducing the risk of slow-moving stock-on-hand and improving customer service.

Whatever the door thickness and the lock position, RS3 S Modulo will guarantee on-site installation or replacement in less than a minute.

RS3 S Modulo is ready for use: with its special pre-bitted key, factory tested module system complete with key bunch and Security Card, and pre-assembled extensions, RS3 S Modulo can be assembled quickly and easily.

RS3 S Modulo guarantees the same performance in terms of resistance to attack as RS3 S and offers consistent breaking and extraction resistance thanks to the Snap Resistant core: 40% more resistant than standard cylinders.

## RS3 S MODULO ASSEMBLY KIT

CISA supplies a service case containing the cylinder components in the most popular sizes, as well as the tools necessary to carry out on-site cylinder assembly and installation.



## PATENTED SYSTEM

# AP3 S



### DISTINCTIVE FEATURES

- Solution Partner on presentation of the Security Card.
- Key more difficult to clone thanks to the sprung, mobile part.
- Certified Attack Resistance grade 2, for armoured doors classified 4 to 6 according to the draft EN1627 standard.

### CYLINDER SECURITY

- High resistance to tearing thanks to the Snap resistant feature, a dual-material steel core visible when the cylinder is installed in the door.
- High resistance to bumping or percussion, thanks to the BKP (Bump Key Power) device.
- High resistance to the housebreaking technique with imprints or wax, thanks to the BKP and the special shape of the springs.
- High drill resistance, thanks to the key bitting system (all the pins and drivers and the inserts set out on both sides of the cylinder) in hardened steel.
- EN1303: 2005 Attack Resistance: 2.

### KEY SECURITY

- Patented key, protected against illegal production.
- More difficult to clone thanks to the sprung, mobile part.
- Security Card for authorised key duplication by CISA Solution Partner or CISA.
- EN1303: 2005 Key Related Security: 6.

### MASTER KEYING POTENTIAL

The 11 pins key bitting system offers excellent access management capacity (for example: 132,000 different cylinders per master key).

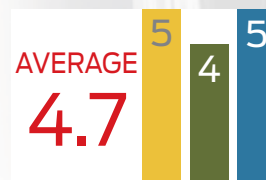
### RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.

### PATENTS AND CERTIFICATES



- Key: patent no. PCT/EP99/07611.
- Snap Resistant system: European patent no. EP1583878, Russian patent no. RU2361989.
- BKP: patent no. PCT/WO2007/074163A1.
- ALI key: with shape registered trademark no. B02004C0000802.



### CISA RATING

# AP3 S Modulo

## PATENTED SYSTEM



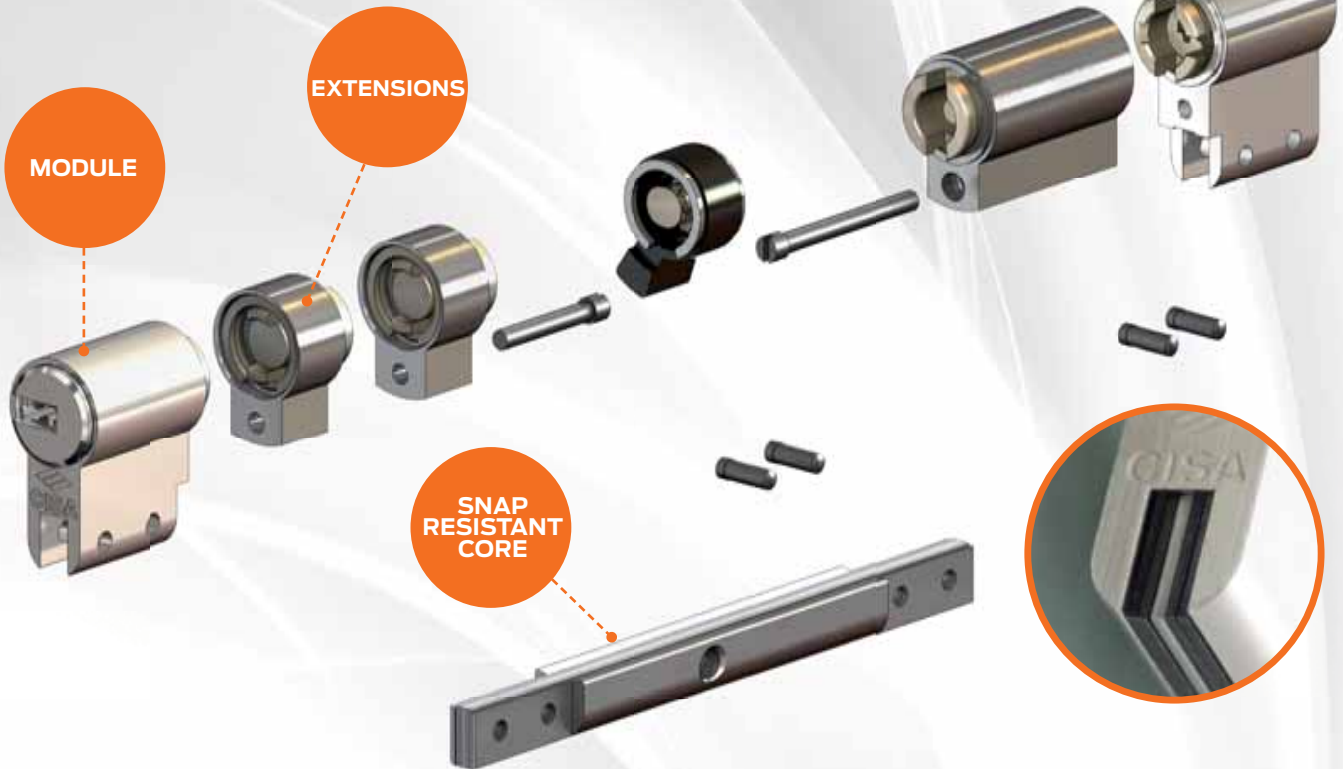
On-site emergency installation



Assembly in under a minute



Same resistance as AP3 S



## BOOST YOUR BUSINESS, STREAMLINE YOUR STOCK

Thanks to its special configuration, AP3 S Modulo will help you maximise your business opportunities without any extra stock requirements, reducing the risk of slow-moving stock-on-hand and improving customer service.

Whatever the door thickness and the lock position, AP3 S Modulo can be installed safely without any need for preliminary site inspections, because thanks to its innovative module system, it adapts quickly to different door thicknesses.

AP3 S Modulo is ready for use: with its special pre-bitted key, factory tested module system complete with key bunch and Security Card, and pre-assembled extensions, AP3 S Modulo can be assembled easily, on-site without any special tools, in just one minute.

AP3 S Modulo guarantees the same performance in terms of resistance to attack as AP3S and offers consistent breaking and extraction resistance thanks to the Snap Resistant core: 40% more resistant than standard cylinders.

## AP3 S MODULO ASSEMBLY KIT

CISA supplies a service case containing the cylinder components in the most popular sizes, as well as the tools necessary to carry out on-site cylinder assembly and installation.



**PATENTED SYSTEM**

# Astral Tekno



## DISTINCTIVE FEATURES

- Key duplication only by CISA and CISA authorised centres, on presentation of the Security Card.
- Key with ergonomic plastic head.
- Wide range of personalised profiles.
- Emergency function, thanks to the clutch system supplied.

## CYLINDER SECURITY

- High resistance to bumping or percussion, thanks to the BKP (Bump Key Power) device.
- High resistance to the housebreaking technique with imprints or wax, thanks to the BKP and the special shape of the springs.
- High drill resistance, thanks to the key biting system in hardened steel.
- Push resistance due to the projecting cam.
- EN1303: 2005 Attack Resistance: 0.

## KEY SECURITY

- Patented key, for greater protection against illegal production.
- Security Card for authorised key duplication by CISA or CISA authorised centres.
- 10 pins key biting system on 2 rows.
- Over 1,600,000 possible combinations, that is different keys.

## MASTER KEYING POTENTIAL

The 10 pins key biting system offers excellent access management capacity (for example: 63,000 different cylinders per master key).

## RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.

## PATENTS AND CERTIFICATES



- Key: patent no. PCT/EP99/07611.
- BKP: patent no. PCT/WO2007/074163A1.



# Astral S



## DISTINCTIVE FEATURES

- Emergency function, thanks to the clutch system supplied.
- Certified Attack Resistance grade 1, for armoured doors classified 1 to 3 according to the draft EN1627 standard.

## CYLINDER SECURITY

- High resistance to tearing, thanks to the Snap resistant feature, a dual-material steel core visible when the cylinder is installed in the door.
- High resistance to bumping or percussion, thanks to the BKP (Bump Key Power) device.
- High resistance to the housebreaking technique with imprints or wax, thanks to the BKP and the special shape of the springs.
- High drill resistance, thanks to the key biting system. (all the pins and drivers and the inserts set out on both sides of the cylinder) in hardened steel.
- EN1303: 2005 Attack Resistance: 1.

## KEY SECURITY

- 10 pins key biting system on 2 rows.
- Over 1,600,000 possible combinations, that is different keys.
- EN1303: 2005 Key Related Security: 6.

## MASTER KEYING POTENTIAL

The 10 pins key biting system offers excellent access management capacity (for example: 63,000 different cylinders per master key).

## RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.

## PATENTS AND CERTIFICATES



- Key: patent no. PCT/EP99/07611.
- Snap resistant system: European patent no. EP1583878, Russian patent no. RU2361989.
- BKP: patent no. PCT/WO2007/074163A1.



# Astral



## DISTINCTIVE FEATURES

- Good master keying potential.

## CYLINDER SECURITY

- Drill resistance with the first pin, driver and inserts in hardened steel positioned on both sides of the cylinder.
- High resistance to the housebreaking technique with imprints or wax, thanks to the special shape of the springs.
- EN1303: 2005 Attack Resistance: 0.

## KEY SECURITY

- 10 pins key bitting system on 2 rows.
- Over 1,600,000 possible combinations, that is different keys
- EN1303: 2005 Key Related Security: 6.

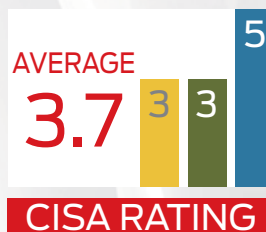
## MASTER KEYING POTENTIAL

The 10 pins key bitting system offers excellent access management capacity (for example: 63,000 different cylinders per master key).

## RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.

## CERTIFICATES



# Asix



## CYLINDER SECURITY

- Drill resistance with the first pin and driver in hardened steel.
- Push resistance due to the projecting cam.
- EN1303: 2005 Attack Resistance: 0.

## KEY SECURITY

- 6 pins key bitting system.
- Over 1,600,000 possible combinations, that is different keys.
- EN1303: 2005 Key Related Security 5.

## RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.



# C2000



## CYLINDER SECURITY

- Drill resistance with the first pin and driver in hardened steel.
- Push resistance due to the projecting cam.
- EN1303: 2005 Attack Resistance: 0.

## KEY SECURITY

- 5 pins key biting system, 0.44 mm depth.
- Over 30,000 possible combinations, that is different keys.
- EN1303: 2005 Key Related Security: 4.

## RELIABILITY

- Tested to max. 100,000 cycles.
- EN1303: 2005 Durability: 6.





# CISA cylinders for special applications

Available for all CISA cylinder ranges.



Cylinder for locks installed  
on wooden doors



Cylinder for locks installed  
on steel doors



Cylinder for furniture



Cylinder with micro switch



Cylinder for padlocks



CISA  
Innovating  
security.





Made in Italy.



Photos taken at the Faenza (RA) and Monsampolo (AP) plants - Italy - May 2014

## About Allegion

Allegion (NYSE\_ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, included strategic brand CISA®, Interflex® LCN®, Schlage® and Von Duprin®.

For more, visit [allegion.com](http://allegion.com)

