



Simons  Voss
technologies

NEXT GENERATION
KEYLESS. NOW.

Digital Cylinder AX

THE FINEST IN KEYLESS SECURITY

YOUR GAINS IF YOU OPEN AND CLOSE DIGITALLY:

No problem if keys are lost

- ⌘ Conveniently manage the locking system on any standard PC using user-friendly SimonsVoss software.
- ⌘ Misplaced, lost or stolen digital keys can be deactivated at any time.
- ⌘ There is no need for time-consuming replacement of mechanical cylinders and keys.

One access medium for all locking devices

- ⌘ All locking mechanisms can be activated with a digital key.
- ⌘ Suitable for all types of doors, lifts, barriers, roll-up doors and cabinet doors.

Greater control and security

- ⌘ The key holder's rights can be established on an individual basis in digital locking systems with access control.
- ⌘ A few clicks on the PC are sufficient to determine who has access to a particular place at particular times.

Quick, easy installation

- ⌘ Electronic fittings are just as quick and easy to install as conventional models.
- ⌘ Installation is cost effective with no wiring required on the door, even for retrofits.

Our digital locking solutions have been replacing mechanical locking systems for 30 years. They have triumphed because they meet the highest standards of security, convenience and reliability.

OUR RANGE

Your individual security requirements are diverse – our product portfolio is equally as diverse and modular. The result: flexible access solutions and intelligent security.

Our range is sustainable and future-oriented:

- ❑ German-made quality makes our products durable and reliable.
- ❑ Low-maintenance technology ensures smooth operation.
- ❑ Our Support Department will assist you if you have any questions.
- ❑ We ensure future-proof concepts with constant innovations and backward-compatible system components.



DIGITAL CYLINDER AX

HIGH-QUALITY,
DURABLE,
FUTURE-PROOF

Are you familiar with our SmartHandle AX door fitting?
It is now joined by a sibling: the new Digital Cylinder AX.
Both are based on the modern AX platform – the basis
for ground-breaking innovations.



The Digital Cylinder AX is the most powerful cylinder we have ever created. It is also the most user-friendly:
An ergonomic yet compact thumb-turn with optical and audible signals makes operation easier.

We have also given priority to high-quality materials.
This ensures that the AX Cylinder is robust and durable with very low operating costs at all times.

The AX Digital Cylinder represents state-of-the-art technology today. Yet it also contains the future. This is because it is equipped ready for technological advances and has the technical potential for future innovations.

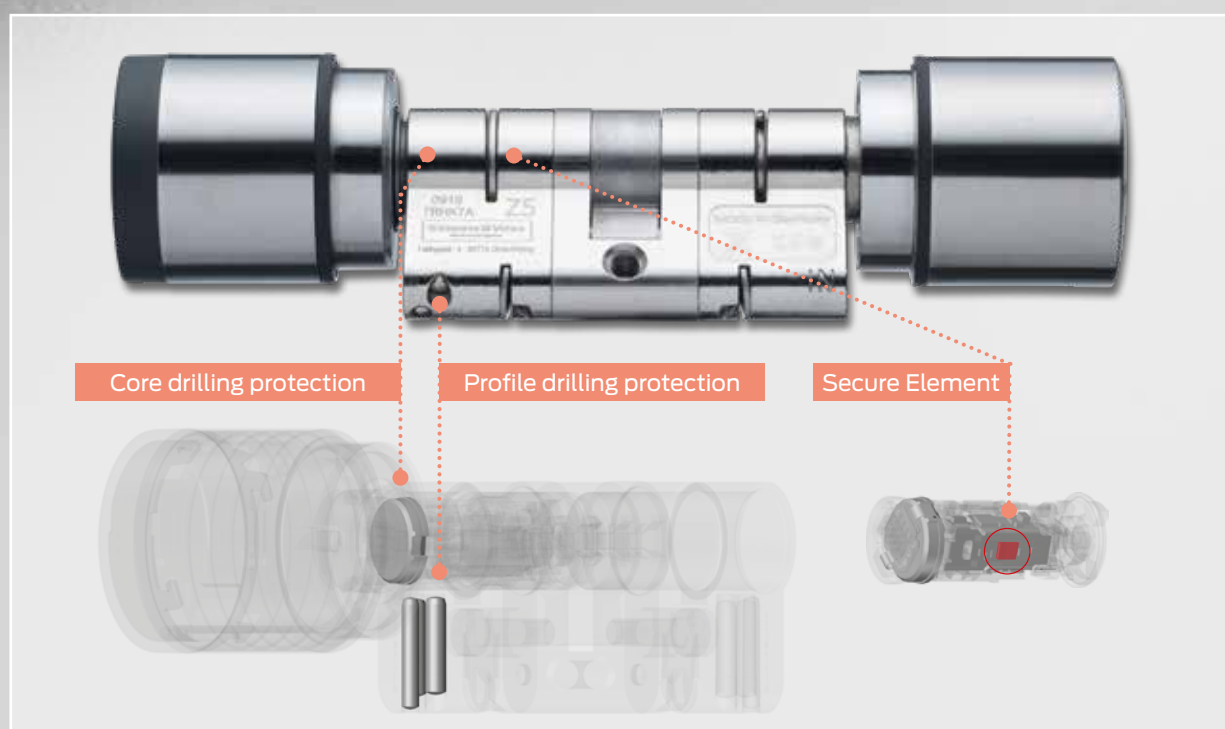
Take a look. Discover it now!

SAFE AND RELIABLE

IP 67



- // Encapsulated actuator electronics with integrated SecureElement, protected in the cylinder core
- // SecureElement saves the encrypted system data and is part of the new AX security architecture. This special chip is an integral part of authentication and protects securely against attacks from the outside
- // Core and profile drilling protection are integrated as standard and protect against external attacks
- // Certified attack resistance: Top classification code as per EN 15684/DIN 18252. Can be used in burglary-resistant doors up to resistance class RC 4 as per EN 1627
- // Extremely durable. 1,500,000 operations with regard to mechanical durability verified by an external testing institute (DIN EN 15684 in the highest class: 100,000 cycles)
- // Protected against the intrusion from dust and water up to protection class IP67 (temporary immersion; WP version optional)



FUTURE-PROOF COMMUNICATION

- // All reader variants, whether active, passive or hybrid, are possible at any time and are supported with Bluetooth Low Energy (BLE) technology
- // Can be integrated into existing system (backward-compatible with existing SimonsVoss components)
- // Extremely fast programming around 10 seconds

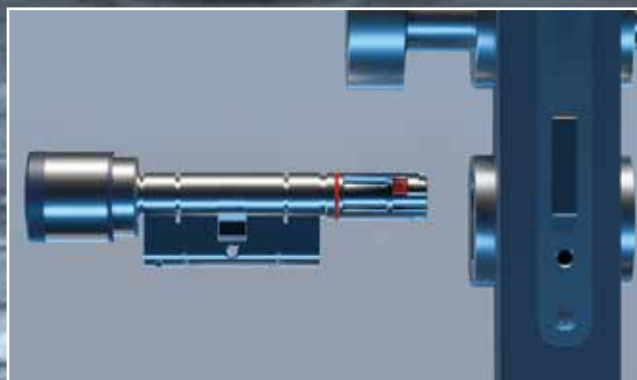






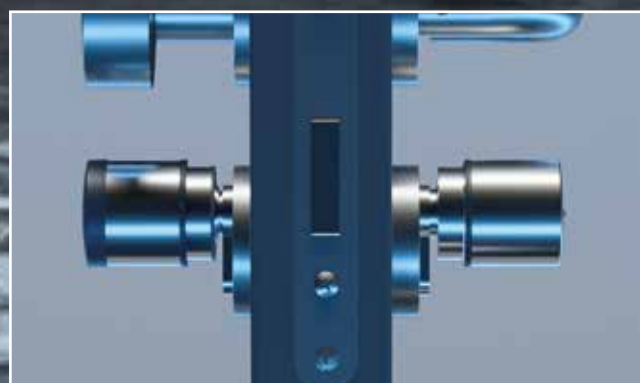
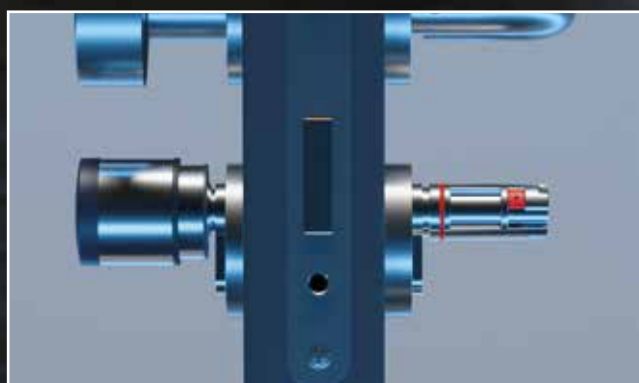
KEYLESS WORLD

Simons Voss
technologies
Made in Germany



INITIAL OPERATION **FASTER AND EASIER THAN EVER BEFORE**

- // No wiring or drilling. Extremely fast, uncomplicated installation
- // New locking mechanism with no special tools required for installation



FLEXIBLE THANKS TO **MODULAR DESIGN***

- // Fast response times on short demand
- // Future-proof when moving to another building
- // Saves time and costs





Cylinder length can be adjusted in just a few steps

USER-FRIENDLY EVERY DOOR FIRMLY UNDER CONTROL

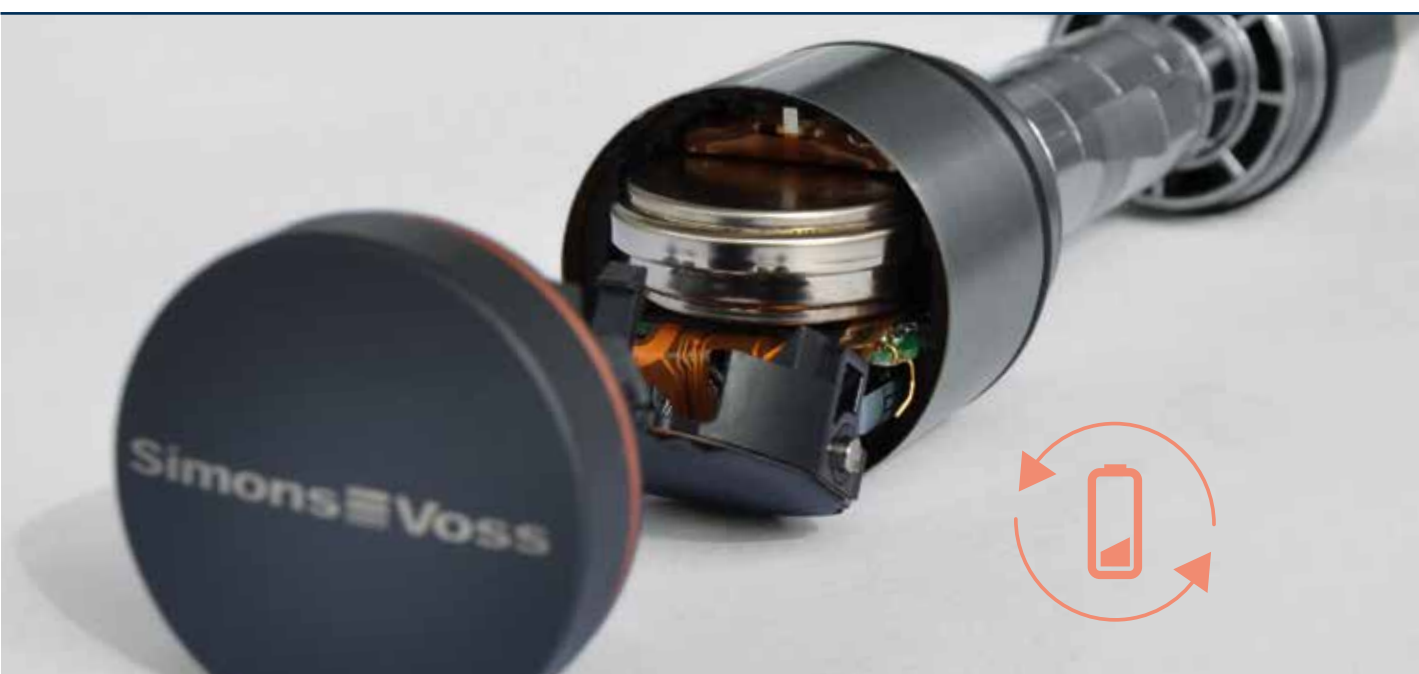
- // Robust thumb-turn thanks to high-quality materials
- // Improved feel thanks to ergonomic thumb-turns
- // Greater ease of use thanks to visual and audible feedback signals



VERY LOW OPERATING COSTS

ENERGY-EFFICIENT, LOW-MAINTENANCE TECHNOLOGY

- // Very long battery life: up to 10 years on stand-by
- // Two-stage warning system (visual/audible) when battery power runs low
- // No special batteries required; can be changed from the outside at any time (standard CR 2450 button cell batteries)
- // No special tool required – battery and installation key used to replace the battery
- // Rapid battery replacement in less than 20 seconds



AT A GLANCE: WHAT THE NEW DIGITAL CYLINDER AX BRINGS YOU



FOR TECHNICIANS:

- // Swift, extremely efficient installation
- // Flexible cylinder adjustment thanks to individually adjustable lengths
- // Standard button cells
- // Battery replaced in no time



FOR DECISION-MAKERS:

- // High-quality and durable
- // Future-proof
- // Very low operating costs
- // German-made



FOR SYSTEM ADMINISTRATORS:

- // Rapid initial operation
- // Quick response in the event of key loss
- // Short intervention time
- // Retrofitted wireless connectivity



FOR USERS:

- // Ergonomic thumb-turn
- // Easily rotated with one hand
- // Visual and audible feedback signals
- // Intuitive operation

INSTALLATION VIDEOS

DIGITAL CYLINDER AX

You can find all installation videos on our website
or in our SimonsVoss Media Library app



Assembly videos at
www.simons-voss.com



Assembly videos at
**SimonsVoss Media Library/
Videos**



■ Installing the standard cylinder



■ Installing the cylinder with reader on both sides (FD)



Extending cylinders



■ Battery replacement



LockNode installation



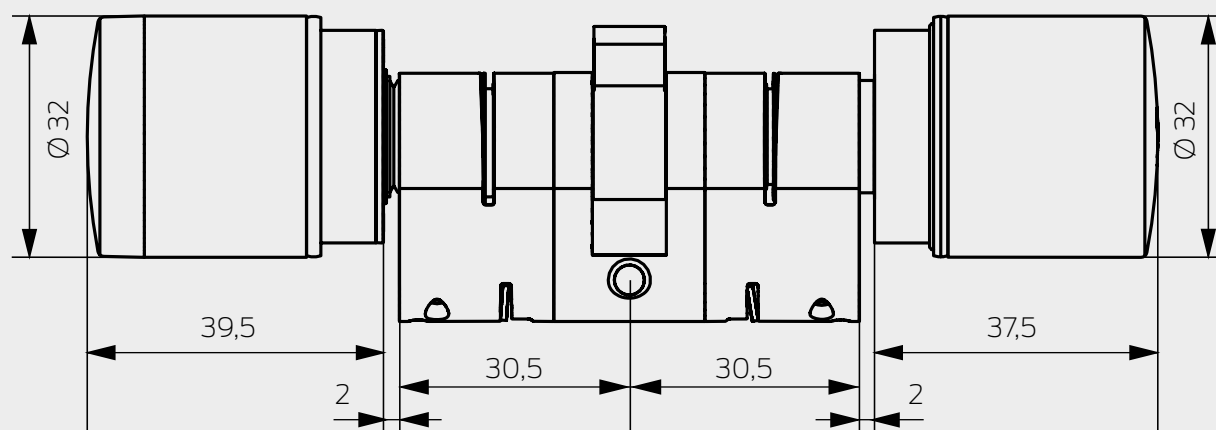
Disassembling the thumb-turn



Core extension installation

TECHNICAL DATA

Profile cylinder	Profiles	:: Euro profile cylinders :: Scandinavian Oval Cylinders :: Scandinavian Round Cylinder :: Swiss Round Cylinders
	Basic length	from 30 – 30 mm (EU / SR) Short cylinders from 20 – 25 mm (EU)
	can be ordered and extended in 5 mm increments up to 90 mm per side (EU); other lengths on request	
Thumb-turns	Material	Reader thumb-turn: Plastic cover black grey
		Rotary thumb-turn: stainless steel
	Diameter	32 mm
Reader systems	:: Active transponder technology 25 KHz :: Passive technology (MIFARE® DESFire®) :: Hybrid technology (active and passive) :: Bluetooth Low Energy (BLE)	
Batteries	Type	2 x CR 2450, 3 V lithium
	Battery life	Up to 10 years on standby or 100,000 operations (standard)
Ambient conditions	Operating temperature	-25° C to +65° C (in accordance with EN 15684)
	Storage temperature	-40° C to +65° C
	Protection rating	IP54 (standard) / IP67 (option .WP)
Features	Networking capability	Yes - Virtual and directly network-ready, ex works or simple and flexible retrofitting
	Offline storable accesses (.ZK option)	Up to 3,000
	Time zone groups	100+1
	Max. number of media per cylinder	64,000
	Number of cylinders that can be managed per transponder	304,000



SUSTAINABLE AND HIGH QUALITY MADE IN GERMANY

- // High quality standards thanks to production in Germany
- // Short transport routes and fast delivery times
- // Certified to ISO 9001 and ISO 14001 for environmental management



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This is SimonsVoss

SimonsVoss, the pioneer in remote-controlled, cable-free locking technology provides system solutions with a wide range of products for SOHOs, SMEs, major companies and public institutions. SimonsVoss locking systems combine intelligent functionality, high quality and award-winning design. Made in Germany. As an innovative system provider, SimonsVoss focuses on scalable systems, high security, reliable components, powerful software and simple operation. As such, SimonsVoss is regarded as a technology leader in digital locking systems. Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide (www.allegion.com).

Made in Germany

SimonsVoss is truly committed to Germany as a manufacturing location: all products are developed and produced exclusively in Germany.

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A BRAND OF **ALLEGION** 

Made in Germany