EVVA
access to security

Locking System | DPS Double Profile System

COMFORT | ORGANISATION | SECURITY

EVVA's Innovative Strength

EVVA provides of a multitude of patented locking systems today. This enables locking systems for certain security, organisation and comfort levels to be selected in accordance with economic aspects. With a great deal of investment in research, EVVA is continually developing new key technologies that set themselves apart from the familiar function principles that have been on the market to date. This is the only way to keep on top of the ever increasing security and organisation demands.

The EVVA Trinity Principle

The EVVA advisory concept is based upon the EVVA trinity principle, which takes into account the conflicting areas of organisation, comfort and security within a building. Only by incorporating these three aspects early in the planning phase, it is possible to implement an individually and economically optimized solution for the respective building, user and administration.

DPS – Time-Tested Technology

The mechanical locking system DPS (Double Profile System) is justifiably one of EVVA's most popular mechanical cylinder locking systems. The DPS technology reflects decades of experience and meets all basic demands of modern security technology. Essential cylinder lock security is ensured by means of a triple authorisation check.

Mechanical EVVA-systems, left to right: MCS, 3KS, DUAL, DPS

"My Job? To make your business and home a safer place!"

DPS Technology – Security On Every Level

Key security

EVVA offers the DPS locking system with a longitudinal profile, which meets today's security requirements. DPS was developed to be able to assign an individual profile to customers.

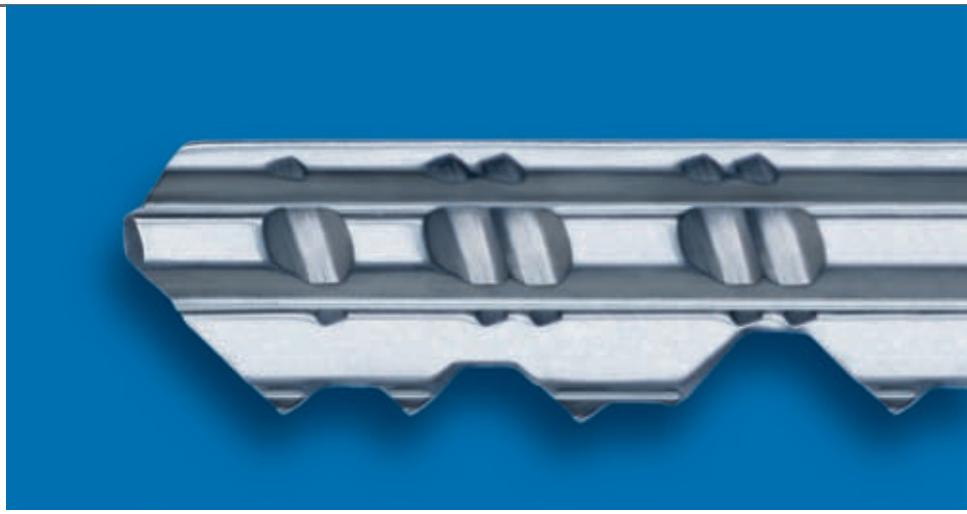
Operational reliability

Three levels of authorisation checks are employed with DPS: a pin system, a variable longitudinal profile and a patented cross profile.

Depending upon requirements, one of the following DPS variants is on offer. They differ from each other in the number of bolts and in the style of construction:

- 5+1 bolts, compact construction
- 5+1 bolts, modular construction
- 6+1 bolts, compact construction

A compact construction means that the cylinder lengths cannot be altered at a later date. In the modular construction, the cylinder lengths can be determined individually.



DPS-longitudinal profile for high security of the key

Wear and tear resistance

With its special thickness of material, the EVVA longitudinal profile offers a high resistance to wear and tear. The DPS serrated profile construction results in a smooth key insertion and, together with the springless locking bar profile, ensures low abrasion of the key and a long lifespan of the cylinder. Furthermore, the profile allows for the necessary differentiation of the key in a locking system.

Combinations

This combination of longitudinal profile, pin system and cross scanning allows the realisation of manifold entry authorisation wishes for the locking system.

You Are Under My Protection.

DPS key copying protection

Key Copying Protection

For the protection against key duplication, illegal copies ("black keys") and key manipulation, the system has three different safeguards at its disposal – each complementing the other in their effectiveness.

Organisational protection

Keys are only manufactured for authorised individuals with the appropriate proof of legitimacy (e.g. security card).

Legal protection

DPS keys may only be manufactured exclusively by EVVA and by specialist companies authorised by EVVA. The DPS locking system features a patent protection on the cross profile. In this way, it is possible for EVVA to take legal action against the unauthorised commercial manufacturing of a duplicate key.

Technical protection

Keys possess technical features, which require special machines and a great deal of expert know-how. Illegal manufacturing is only possible at great expense and, as such, is not economically viable.

The Nuts And Bolts Of Innovative Technology.

Cylinder Lock Security

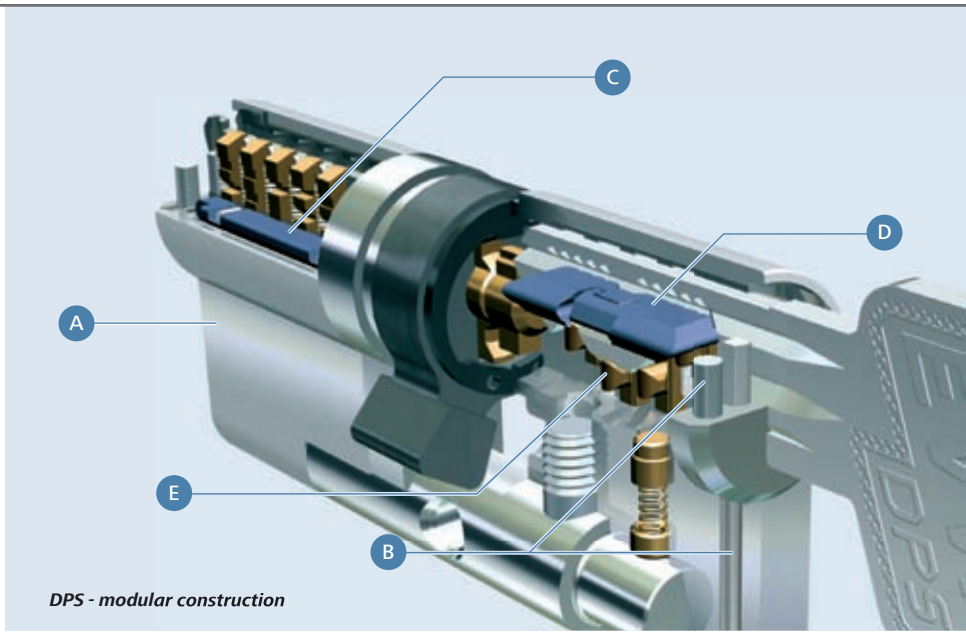
It is a continual race against time to ensure that the new functional principles don't give illegal opening methods a chance.
That's why only innovative technologies provide a lasting protection against known and future methods of forced entry. All employed technologies have the goal of impeding a break-in.

EVVA develops and integrates protective mechanisms against the following opening methods:

- Detectable opening techniques (the cylinder lock remains fully functional, there are visible traces of tampering): opening with vibrating tools .
- Non-detectable opening techniques: opening with lock tools (e.g. Dietrich).
- Destructive opening techniques (the cylinder lock is destroyed): breaking or ripping the cylinder lock off, drilling into the cylinder, sawing the cylinder off, extracting the core of the cylinder lock.

Scanning security

The scanning security takes place in the compactly constructed cylinder lock via specially shaped tumbler pins. In the modular construction, the scanning security is provided by the locking pins, which are jointly steered by a control slide.



DPS - modular construction

Drilling and core extraction security

Hardened steel elements act as standard protection against drilling. By request, the cylinder can also be delivered with increased drilling protection in the form of carbide elements.

Conformity to Standards

All DPS cylinder locks, in combination with an appropriate protective fitting, comply with EN 1303:2005 in the locking security category 6 and the lock picking resistance category 2 (high standard). They are suitable standard locks for fire and smoke doors EI 30 and E 30

- A **Housing**
- B **Drilling protection**
- C **Control slide**
- D **Locking bar profile**
- E **Bolt**

Combi-Key: the advantages of mechanics and electronics combined in one medium

Mechanics & Electronics

Mechanical locking systems form the foundation of organisational building security. Comprehensive, individual security solutions arise from the combination with electronically controlled security technology.

Combination with electronic identification technologies

The DPS key can also be designed as a Combi-Key. This can be employed as a carrier for contactless identification technologies (Mifare®, Legic®) or for those requiring contact (iButton®). The mechanical key is thereby transformed into an electronic identification medium and replaces additional identification media such as cards, for example. Not only is the administration of identification media and keys made significantly easier and safer – it is also a great deal more comfortable for the individual key/identification media user to just carry one medium. The mechanical key can only be separated from the identification medium by destroying it. (Illustration A)

Combination with motor cylinder

Without making changes to the fitting, and fully integrated in the DPS locking system, the cylinder lock can be locked and unlocked by means of an electronically driven motor knob. In an emergency, the cylinder can be mechanically operated from outside. (Illustration B)

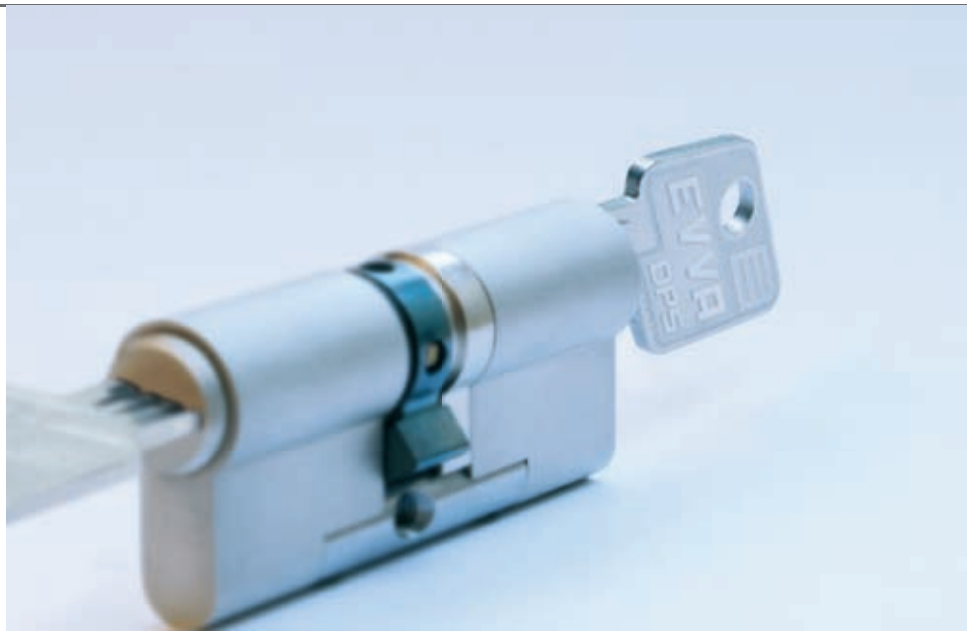
All Perfectly Coordinated.

Locking systems tailor made to meet your requirements

In practice, for reasons of economics as well as security, mechanical locking systems are often installed in combination with electronic locking systems. This allows the building entrance to be electronically surveyed, whilst the interior doors are organised and secured via a mechanical locking system.

Mechanical emergency locking for electronic locking systems and entry control systems

Nothing can replace the robustness and stability of mechanical locking systems. For this reason, mechanical cylinder locks are often employed in case of an emergency on electronic locking systems and entry control systems (e.g. in the event of a power cut or battery failure). This is recommended as a basic principle and is often compulsory for emergency service organisations e.g. fire stations. (Illustration C)



Cylinder Lock- Options

Different options are necessary within a locking system e.g. for building entry doors, escape and emergency doors, office and interior doors, cellar doors, garage doors, lift gates, window handles, mailboxes, balcony doors, safety deposit boxes or furniture locks. The established DPS-system can be installed worldwide and is able to content almost every security requirement.

Option BSZ:
Cylinder can be operated even when a key is inserted on the opposite side

DPS special functions	5-pin	6-pin
External Key Override (BSZ)	●	●
External Key Override Emergency and Danger Function (GEFE)	●	●
Knob and Anti-Blocking Function (SOSE)	●	●
Dust Cover (SSW)	●	●
Protection against Sea Water (SEW)	●	●
Free Wheel Cam for Anti-Panic Locks (FREI)	●	●
Cog Wheel (ZR)	●	●
VdS A	●	
VdS B		●

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Reference Projects:

Spandau Watertown, Berlin | Spreekarree, Berlin | Innovations Park Wuhlheide, Berlin |Royal Porcelain Manufacture, Berlin | Wool Yarn Factory, Kadiner Str., Berlin | DREWAG Waterworks, Dresden | Max Planck Institute, Leipzig | Hexal Pharma, Radebeul | IBIS Hotel, Dresden | Soteria Clinic, Leipzig | Vattenfall, Cottbus | Schmergow Manor, Schmergow | Kaiserbahnhof, Potsdam | DPD Depot, Hermsdorf | Central Employment Office, Berlin | Sparda Bank, Brandenburg | Personennahverkehrsgesellschaft, Burg | Wallstreet Park Plaza Hotel, Berlin | Waldklinik, Bernburg | Sports Museum Olympic grounds, Berlin | Evangelical Church, Oranienburg | Correctional Facility, Brandenburg | VW Distribution Centre, Ludwigsfelde | German Aerospace Centre, Stuttgart | Pro Curand Nursing Home, Ingolstadt | Berlin Fire Services, Berlin | Landschulheim, Dülmen-Buldern | Bischöfliches Gertrudenstift, Rheine | Ernst-von-Bergmann Barracks, Munich | Ares Tower, Vienna | Health Spa, Bad Vöslau

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