

PRODUCT DATA SHEET

sullus[®]
security systems



VITESS.4000 padlock 86TI/45 with half cylinder

Security Tech Germany

SKU AB.V4000.VH. 86Ti45.HZ
Producer No. VH86Ti45.V4L452

The Vitess system combines legal copy protection (patent term until 2034), unlimited trademark protection with high technical copy protection. It has been further developed on the basis of the proven V14 system.

The integrated Intop system, a special test unit in the cylinder and on the key, as well as the multiple paracentric contour profile also guarantee effective protection against tampering with the cylinder and illegal key copies. In addition, the Vitess system can be expanded at any time and leaves you free to make changes at a later date.

The Vitess.4000 system offers tailor-made security solutions for individual applications ranging from individual locks to complex systems.

Measurements

- standard shackle height: 32,5 mm
- shackle: Ø 8 mm
- case width: 46,5 mm
- length half cylinder: 30,5/10 mm

Technical characteristics

- third system level in Vitess
- Intop system for high technical copy protection
- conventional 6-pin locking system
- 6 spring-loaded locking elements and up to 4 spring-loaded coding pins on 2 locking rows
- coded profile rib with profile sensing pin
- angled paracentric precision contour (picking protection)
- standard drilling protection BS01 made of hardened special steel
- 14 mm core diameter
- according to DIN 18252 and DIN EN 1303, certified according to ISO 9001:2008
- can be combined with Vitess.1000

Execution

- massive lock body made of TITALIUM™, special aluminium - high security at low weight
- cylinder body: nickel plated brass
- stable key with vertical, easy key insertion
- with hardened steel shackle with special NANO protect coating for very high corrosion protection
- key can only be removed when closed, positively locked by locking path
- double U-lock
- combination with electronic systems possible at any time

Options / Special equipment

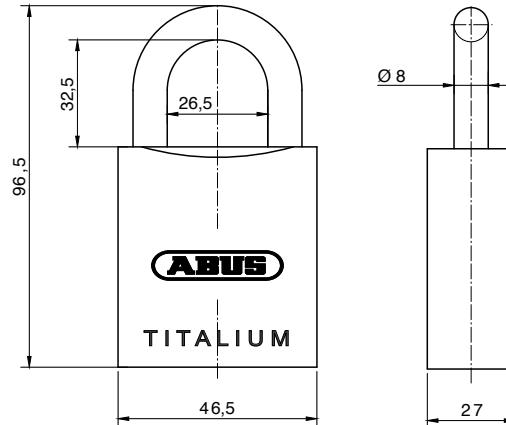
- different shackle height (39,5 mm = 86TI/55) *
- increased drilling protection with SKG*** certificate for half cylinder *
- weather protection for half cylinder *

Operational area

- indoor, conditionally for outdoor usage
- garden gates, steel and lattice gates
- protection of larger values / objects with a high risk of theft
- for securing chains, doors, gates, cupboards, lockers, toolboxes, basement windows, sheds, switchgear etc.

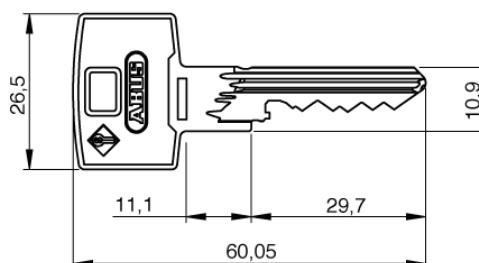
Scope of delivery

- padlock 86TI/45 with half cylinder Vitess.4000 incl. 3 or more keys
- security card



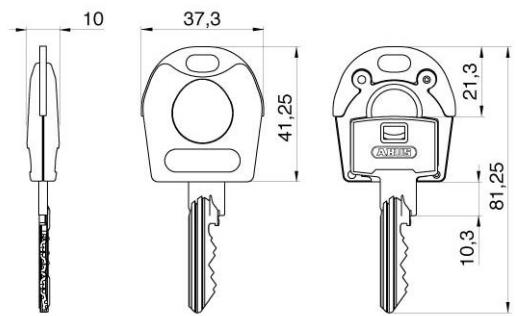
Key

- key thickness: 2,6 mm
- stable serrated key made of wear-resistant nickel silver
- highest key copy protection through Intop system
- plastic key cap (SKUNI CAP) (optionally selectable)
- on request with integrated transponder for the control of electronic systems (compatible only with SKUNI CAP, later retrofitting not possible)



Key cap SKUNI CAP

- key caps without transponder
- key caps made of plastic with metal reinforcement made of nickel silver
- for special design requirements for the keys
- for easy optical differentiation
- increased locking comfort due to enlarged key head
- subsequent opening of the key cap as well as retrofitting or replacement is not possible
- the key cap is mounted using an ultrasonic welding process, so factory assembly is absolutely necessary
- on request with integrated transponder to control external systems such as time recording, parking management systems or cashless accounting systems
- use exclusively with keys from ABUS Pfaffenrain
- combination with electronics



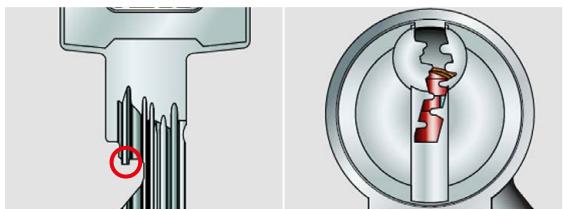
Combination with electronics

In an ABUS locking system, mechanical and electronic locking cylinders can be flexibly combined at any time. This potential for expansion allows you maximum flexibility and future security when planning your building security. With the combination keys, you can lock mechanical and electronic cylinders with just one key. Alarm systems, external systems or time recording and payment terminals can be integrated into the locking system at any time. The combination with electronic systems is very simple thanks to the SKUNI CAP. The key can be supplied directly from the factory as a mechanical-electronic combination key. Retrofitting electronic components at a later date is not possible.

Technical details

The patented Intop system

The Intop system is a newly developed test unit on the key and in the cylinder, which prevents the locking process with an unauthorised key. In combination with the coded profile rib and the multiple paracentric precision profile, it offers you effective protection against illegal key copying and tampering with the door lock.



system Intop

paracentric contour profile



test unit Intop on the key and in the cylinder

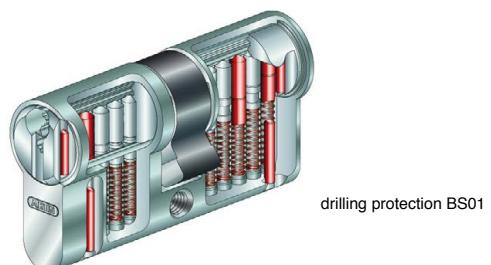
The material TITALIUM™

The TITALIUM™ padlocks from security expert ABUS represent a new dimension in security! Manufactured from an innovative material, they stand for high security with a greatly reduced weight. The material TITALIUM™ is based on a light aluminium special alloy, which shines with its strong robustness and lightness at the same time. The special steel shackle is coated with NANO PROTECT™ for very high corrosion protection.

Security options

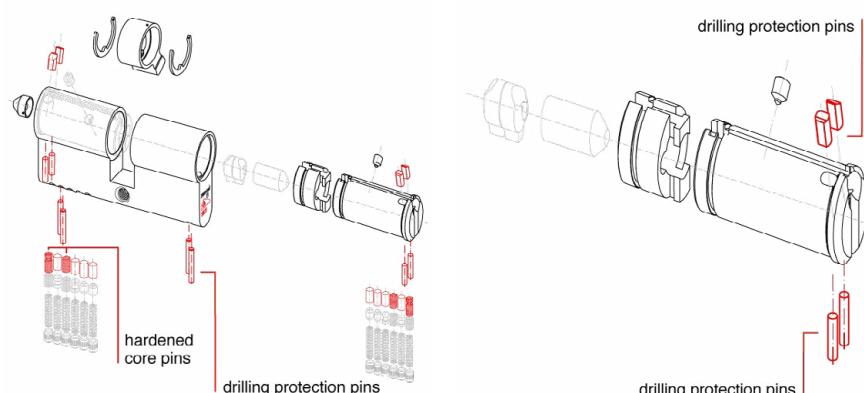
Increased drilling protection BS01 (standard)

The drilling protection is achieved by using two additional hardened steel pins (the first and third pair of pins) in the cylinder core and body on each locking side (for double cylinders generally on both sides). This achieves the attack resistance class 2 according to EN 1303 and makes violent opening attempts more difficult.



Increased drilling protection with SKG* certificate**

The SKG*** certificate results from the use of four hardened steel pins in the cylinder body, as well as an additional four hardened steel pins in the cylinder core on each locking side. This certificate is used for special requirements on the attack resistance of the cylinders.



* this selection extends the delivery time