

[Manuals.plus](#) /

› [Tesa Assa Abloy](#) /

› Tesa Assa Abloy TK100 High Security Cylinder User Manual

Tesa Assa Abloy TK1B3030L

Tesa Assa Abloy TK100 High Security Cylinder User Manual

Model: TK1B3030L

Product Overview	Safety Information	Package Contents	Setup & Installation
Operating Instructions	Maintenance	Troubleshooting	Specifications
		Security Demo	Warranty & Support

1. PRODUCT OVERVIEW

The Tesa Assa Abloy TK100 High Security Cylinder (Model: TK1B3030L) is engineered to provide superior protection for your entrance doors. This cylinder features advanced security systems, including a patented orbital combination system that exceeds European safety regulations. It incorporates exceptional drilling protections with multiple hard metal anti-drill pins and a shield integrated into the rotor, making it highly resistant to common intrusion methods.



Figure 1: Tesa Assa Abloy TK100 High Security Cylinder with Key.

The TK100 cylinder is designed to withstand various attack methods, including drilling, bumping, picking, extraction, and breakage. Its patented key system ensures controlled key duplication, enhancing overall security. This model features a 30 x 30 mm size with a Key-Button style and a Brass Finish.

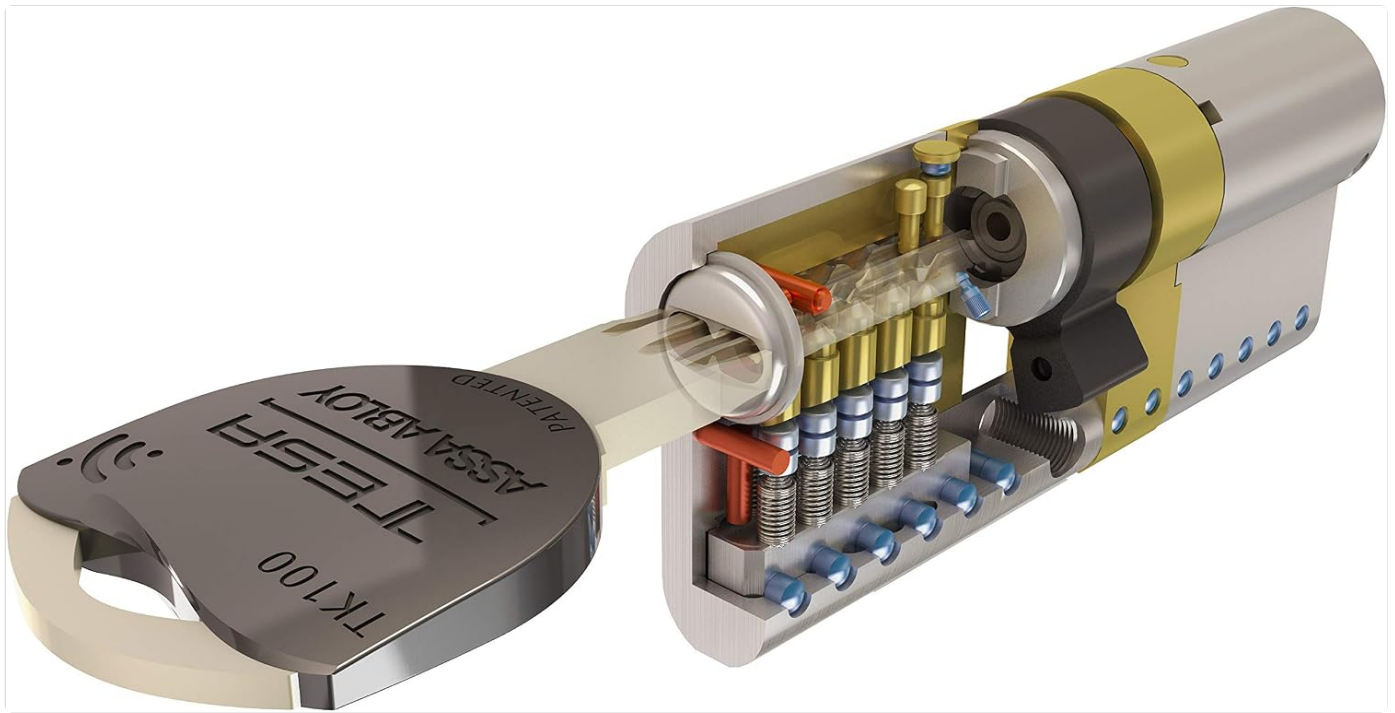


Figure 2: Cutaway view of the Tesa Assa Abloy TK100 cylinder, showing its internal mechanism and advanced pin system for high security.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or using the Tesa Assa Abloy TK100 cylinder. Failure to follow these instructions may result in property damage or injury.

- **Professional Installation Recommended:** For optimal security and proper function, professional installation is highly recommended.
- **Use Correct Tools:** Always use appropriate tools for installation to prevent damage to the cylinder or door.
- **Lubrication:** Use only recommended lubricants for cylinder maintenance. Avoid oil-based lubricants as they can attract dust and debris, leading to malfunction.
- **Key Duplication:** Keys are patented and can only be duplicated with the provided property card by authorized dealers. Keep your property card secure.
- **Avoid Force:** Do not force the key or cylinder. If resistance is met, check for obstructions or consult a professional.
- **Children:** Keep keys out of reach of children.



Figure 3: Visual representation of security features and warnings for the TK100 cylinder, including warnings against unauthorized lubrication, key copying without the property card, anti-extraction, reinforced bridge, anti-bumping, anti-picking, and anti-drilling.

3. PACKAGE CONTENTS

Verify that all items are present in the package before beginning installation:

- 1x Tesa Assa Abloy TK100 High Security Cylinder (Model: TK1B3030L)
- 5x Patented Long Neck Keys
- 1x Property Card for key duplication
- 1x M5x60 mm Screw



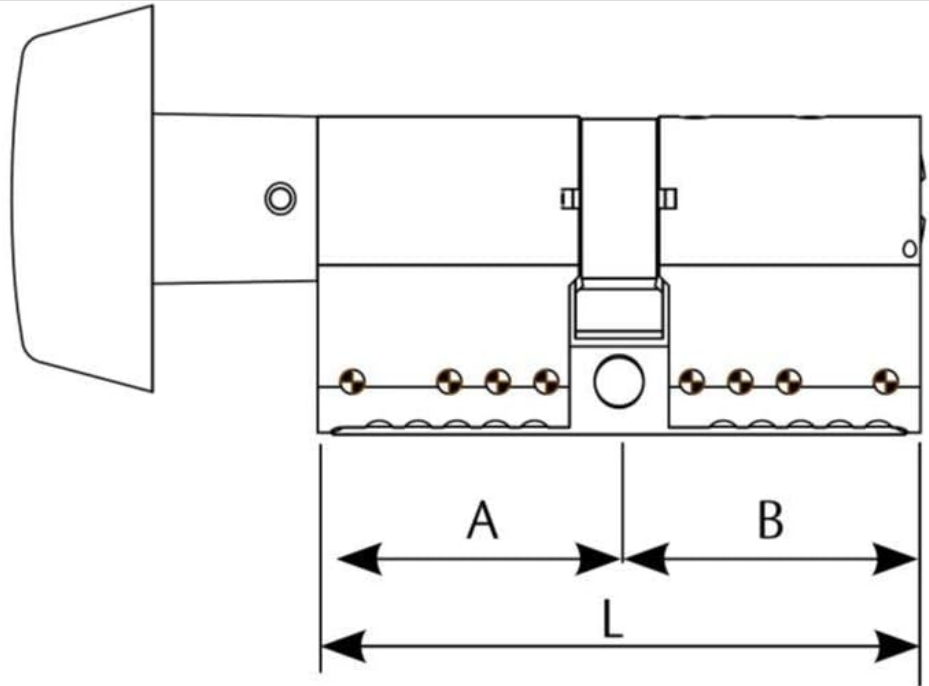
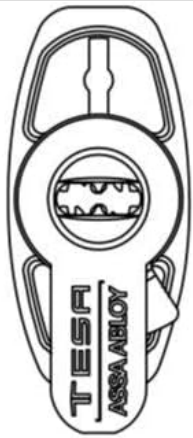
Figure 4: The Tesa Assa Abloy TK100 cylinder and its accompanying keys and property card.

4. SETUP & INSTALLATION

This section provides general guidelines for installing the Tesa Assa Abloy TK100 cylinder. Specific door types may require additional steps or professional assistance.

4.1. Pre-Installation Check

1. **Measure Existing Cylinder:** Before replacing an existing cylinder, measure its length (L) and the distances from the center screw hole to each end (A and B). Ensure the TK100 cylinder dimensions (30 x 30 mm) are compatible with your door.
2. **Identify Cam Type:** Confirm if your door requires a long cam or short cam cylinder. The TK1B3030L model features a long cam.



L	A	B
60	30	30
70	30	40
70	35	35
80	40	40
90	45	45

Figure 5: Diagram illustrating cylinder dimensions (L, A, B) for proper measurement and selection.

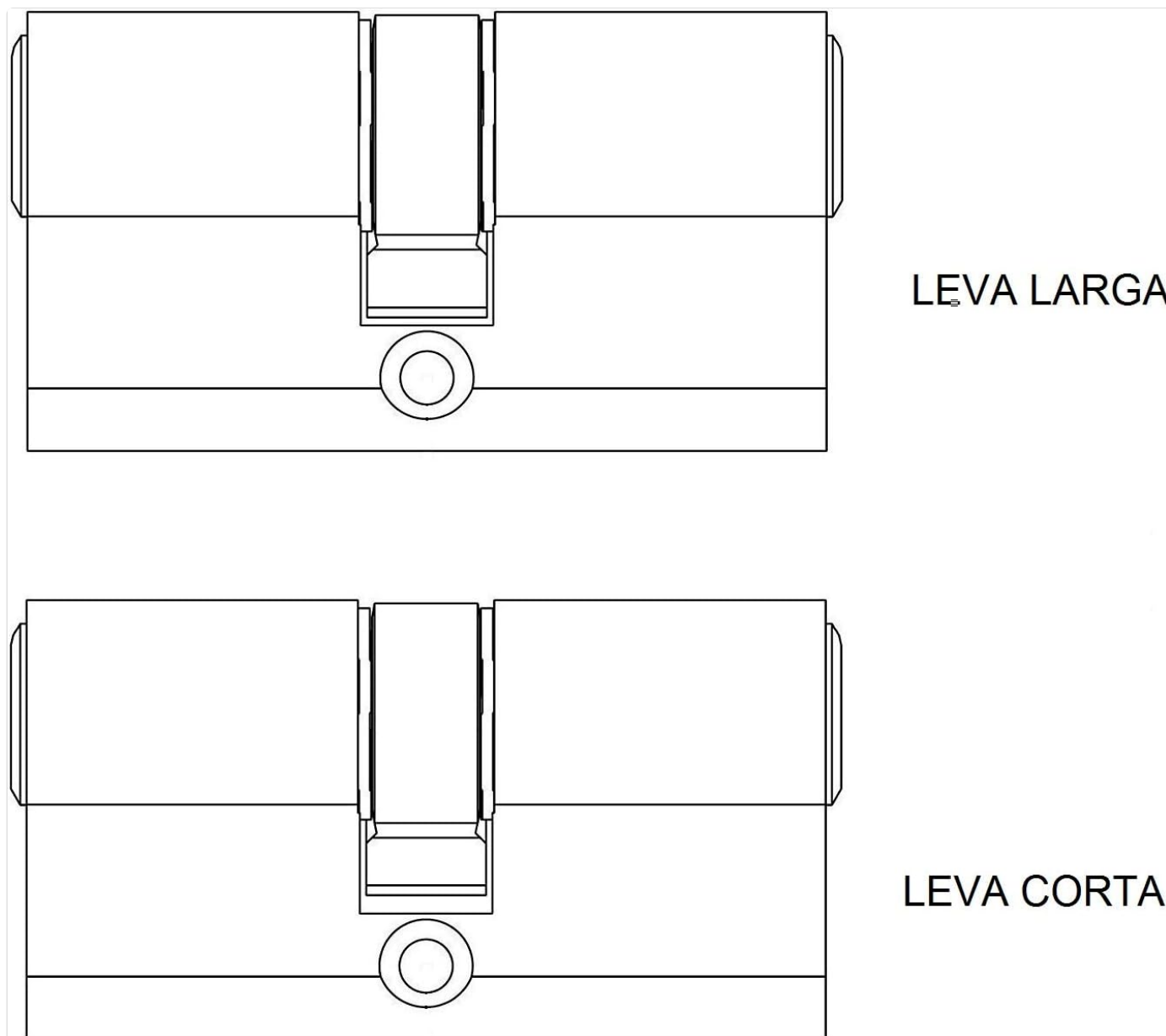


Figure 6: Comparison of long cam and short cam cylinder types.

4.2. Installation Steps

1. Remove Old Cylinder:

- Open the door and locate the retaining screw on the side of the door, typically aligned with the cylinder.
- Unscrew and remove the retaining screw.
- Insert a key into the existing cylinder and turn it slightly (approximately 15-20 degrees) in either direction. This aligns the cam with the cylinder body, allowing it to slide out.
- Gently pull the key and cylinder out of the door.

2. Insert New Cylinder:

- Insert one of the new keys into the Tesa Assa Abloy TK100 cylinder.
- Turn the key slightly to align the cam with the cylinder body.
- Slide the new cylinder into the door, ensuring it is flush with both sides of the door or the escutcheon plates.

3. Secure Cylinder:

- Once the cylinder is correctly positioned, insert the M5x60 mm screw through the side of the door and into the cylinder's screw hole.

- Tighten the screw firmly but do not overtighten, as this can damage the cylinder or prevent proper operation.

4. Test Operation:

- With the door open, test the cylinder's operation from both sides using the key. Ensure the key turns smoothly and the locking mechanism engages and disengages correctly.
- Close the door and test the lock again to ensure it functions properly when the door is closed.

5. OPERATING INSTRUCTIONS

The Tesa Assa Abloy TK100 cylinder operates like a standard key-button cylinder. One side uses a key, and the other side has a thumb-turn button for easy egress.

- **Locking from Exterior:** Insert the key into the exterior side of the cylinder and turn it to engage the locking mechanism. Remove the key.
- **Unlocking from Exterior:** Insert the key into the exterior side of the cylinder and turn it to disengage the locking mechanism.
- **Locking from Interior:** Turn the thumb-turn button on the interior side of the cylinder to engage the locking mechanism.
- **Unlocking from Interior:** Turn the thumb-turn button on the interior side of the cylinder to disengage the locking mechanism.

Always ensure the door is properly closed before locking to prevent damage to the lock or door frame.

6. MAINTENANCE

Regular maintenance ensures the longevity and smooth operation of your TK100 cylinder.

- **Cleaning:** Periodically clean the keyway with a soft, dry cloth to remove any dust or debris.
- **Lubrication:** Apply a small amount of graphite-based or silicone-based lubricant specifically designed for locks once a year, or if the key starts to feel stiff. **Do not use oil-based lubricants (e.g., WD-40)** as they can attract dirt and cause the mechanism to gum up over time.
- **Key Care:** Avoid using bent or damaged keys, as this can damage the internal mechanism of the cylinder.

7. TROUBLESHOOTING

If you encounter issues with your TK100 cylinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Key is stiff or difficult to turn.	Lack of lubrication, dirt/debris in keyway, bent key.	Apply lock lubricant. Clean keyway. Use a new, undamaged key.
Cylinder does not lock/unlock.	Misaligned cam, incorrect installation, internal mechanism damage.	Re-check installation. Ensure cam is aligned. If problem persists, contact a locksmith.
Key cannot be inserted fully.	Obstruction in keyway, incorrect key.	Inspect keyway for foreign objects. Ensure you are using the correct TK100 key.

If these solutions do not resolve the issue, please contact Tesa Assa Abloy customer support or a certified locksmith.

8. SPECIFICATIONS

- **Model:** TK1B3030L
- **Brand:** Tesa Assa Abloy
- **Type:** High Security Cylinder
- **Size:** 30 x 30 mm
- **Style:** Key - Button
- **Color:** Brass Finish
- **Material:** Metal
- **Dimensions (L x W x H):** 2.36 x 0.67 x 1.3 inches (60 x 17 x 33 mm)
- **Weight:** 0.35 Kilograms (12.3 ounces)
- **Keys Included:** 5 (Patented Long Neck Keys)
- **Security Features:** Anti-bumping, Anti-breaking, Anti-extraction, Anti-picking, Anti-drilling (exceeds European regulations), Patented Anti-copy Key System, Reinforced Bridge.
- **Durability:** 200,000 cycles
- **Certification:** Certified according to 1303 standard

9. WARRANTY & SUPPORT

Tesa Assa Abloy products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or visit the official Tesa Assa Abloy website.

Customer Support:

- For technical assistance, installation queries, or warranty claims, please contact Tesa Assa Abloy customer service.
- When contacting support, please have your product model (TK1B3030L) and purchase information ready.

Key Duplication:

Due to the patented anti-copy key system, additional keys can only be duplicated by authorized Tesa Assa Abloy dealers upon presentation of your unique property card. This ensures the highest level of security and control over your keys.

10. SECURITY FEATURE DEMONSTRATION

Watch the video below to understand the advanced security features of the Tesa Assa Abloy TK100 cylinder and how it protects against common intrusion methods like drilling.

Your browser does not support the video tag.

Video: Demonstration of the Tesa Assa Abloy TK100 cylinder's resistance to drilling and other intrusion techniques, highlighting its superior security design.

