

# PRINT-X RBS QDM RIFLE SUPPRESSOR FAMILY

## OPERATOR MANUAL



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**WARNING!**

Suppressed firearms produce less noise than non-supressed firearms, but it should still be remembered that it is a firearm. It is essential to follow the same safety rules as for a non-silenced firearm.



Failure to follow the operating instructions may result in serious injury to the user and damage to the firearm. Suppressors are devices that are attached to a muzzle, a flash hider or a compensator. A requirement for safe operation is the mounting of the suppressor as described in these operating instructions.

Under normal conditions any suppressor will become very hot. This is especially true when fired in full automatic mode. For your safety it is important to allow the suppressor to cool down before touching it in any way, this includes removing the suppressor from the weapon. It is also important not to let the suppressor touch any material or equipment while hot, such as nylon webbing or ammunition pouches.

**EYE PROTECTION MUST BE WORN!**



SAFETY GOGGLES MUST BE WORN WHEN DISASSEMBLING AND REASSEMBLING THE GUN. PARTS CAN GET INTO THE EYES IF HANDLED INCORRECTLY.

**EAR PROTECTION MUST BE WORN!**



SUITABLE HEARING PROTECTION MUST ALWAYS BE WORN WHEN SHOOTING WITH A FIREARM.

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## **1. General rules**

Read the manual before use

### **1.1 Safety rules**

1. Consider every weapon loaded until checked personally by the individual operator.
2. User installation or removal of the suppressor must be accomplished in accordance with the instructions contained in this manual.
3. Serious injury to the user may result from an improperly installed suppressor.
4. Always wear eye and ear protection when shooting.
5. Check the suppressor for tightness before each use.
6. Do not touch the suppressor directly after shooting.

### **1.2 Restrictions for firing in full-automatic fire**

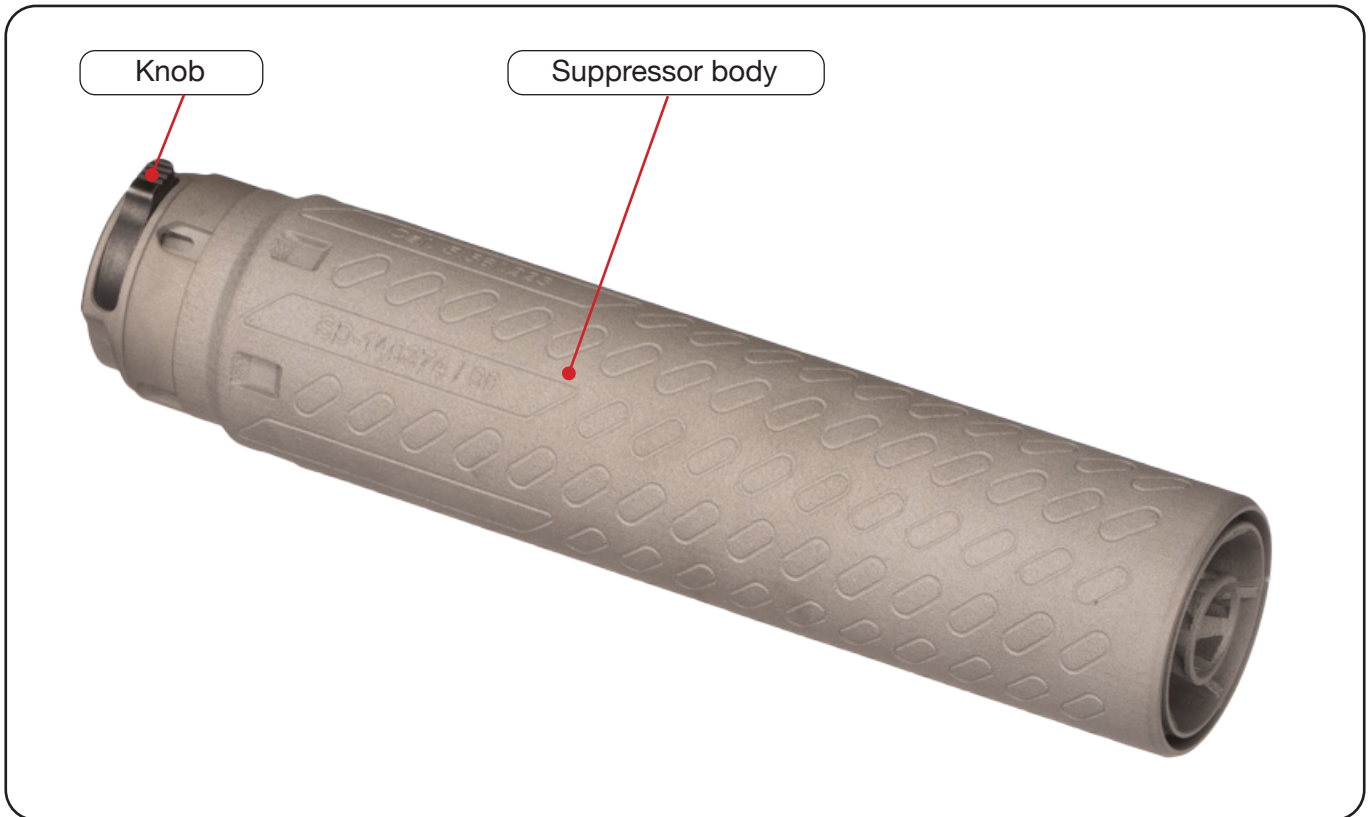
Suppressors designed for full-automatic weapons can be used in full-automatic firing mode. However, it must be considered that enormous heat is generated when firing in full-automatic fire mode. It is therefore recommended to shoot in short bursts with the suppressor in place and to stop shooting as soon as the suppressor begins to glow, if possible, in order to prevent permanent damage to the suppressor. Any further restrictions imposed by the gun manufacturer must be observed.

### **1.3 Influence on point of impact**

The additional weight of the suppressor at the muzzle and the changed gas conditions directly after the muzzle can change the exit ballistics of the weapon and thus the point of impact. It is therefore important that the point of impact is always checked and, if necessary adjusted, with the suppressor and the used ammunition before a mission.

## 2. Technical specifications

### 2.1 Nomenclature



### 2.2 General description

The PRINT-X RBS QDM rifle suppressor has been specially designed for use on M.A.R.S. flashhiders. The mounting solution is designed to allow the quick mounting and dismounting of the suppressor on the weapon without any tools.

When using a suppressor, the gas blowback in the face of the operator is not only disturbing but also a health risk, especially on indoor ranges. The new RBS suppressor significantly reduces the amount of combustions gases from the ejection port and charging handle.

As sensible as the use of silencers is in police and military applications, the escape of the retained gases from the ejection port and charging handle has various disadvantages. With the new RBS suppressor B&T addressed these issues. The new low-pressure chamber design allows to absorb a significant amount of gasses thus reducing the back pressure, which makes the RBS a great choice for semi-automatic carbines, assault rifles and machine guns.

The new design only minimally increases the size and weight of the suppressor compared to conventional silencers, while muzzle flash and noise are suppressed similarly well as with the proven B&T suppressors. This version of the RBS is designed to fit on a M.A.R.S. flash hider.

## 2.3 Technical data - Inconel

Description		PRINT-X RBS QDM Standard	PRINT-X RBS QDM Compact
Manufacturer		B&T AG - Switzerland	
Article-No.		SD-140374	SD-140369
Interface		Quick release M.A.R.S. flashhider	
Calibre		5.56x45/.223 Remington	
Length		200 mm	170 mm
Length extending the barrel		178 mm	148 mm
Tube diameter		44 mm	
Weight		~ 547g	~ 486g
Material	Body	Inconel 718	
	Adapter	Stainless steel, steel	
Color		Black/Gray - Cerakote coating on request	
Surface treatment		Teniferized QPQ	
Sound reduction		~ 33dB A	~ 27dB A
Service life		100.000 rounds*	
Ambient temperature for use		-45°C...70°C	

\*B&T guarantees the service life as follows:

**Inconel:**

30.000 rounds with the high intensity shooting cycle (240 rounds in 3-4 Minutes, mixed semi and full auto)

100.000 shots if the suppressor is not fired above 350°C (90 rounds semi auto in a row)

All product specifications are subject to change without notice.

Published data are mean values and therefore not suitable acceptance criteria.

## 2.4 Technical data - Titanium

Description		PRINT-X RBS QDM Standard TITAN	PRINT-X RBS QDM Compact TITAN
Manufacturer		B&T AG - Switzerland	
Article-No.		SD-140374-TI	SD-140369-TI
Interface		Quick release M.A.R.S. flashhider	
Calibre		5.56x45/.223 Remington	
Length		200 mm	170 mm
Length extending the barrel		178 mm	148 mm
Tube diameter		44 mm	
Weight		~ 420g	~ 388g
Material	Body	Titanium	
	Adapter	Titanium, steel	
Color		Black/Gray - Cerakote coating on request	
Surface treatment		Teniferized QPQ	
Sound reduction		~ 33dB A	~ 27dB A
Service life		20.000 rounds*	
Ambient temperature for use		-45°C...70°C	

\*B&T guarantees the service life as follows:

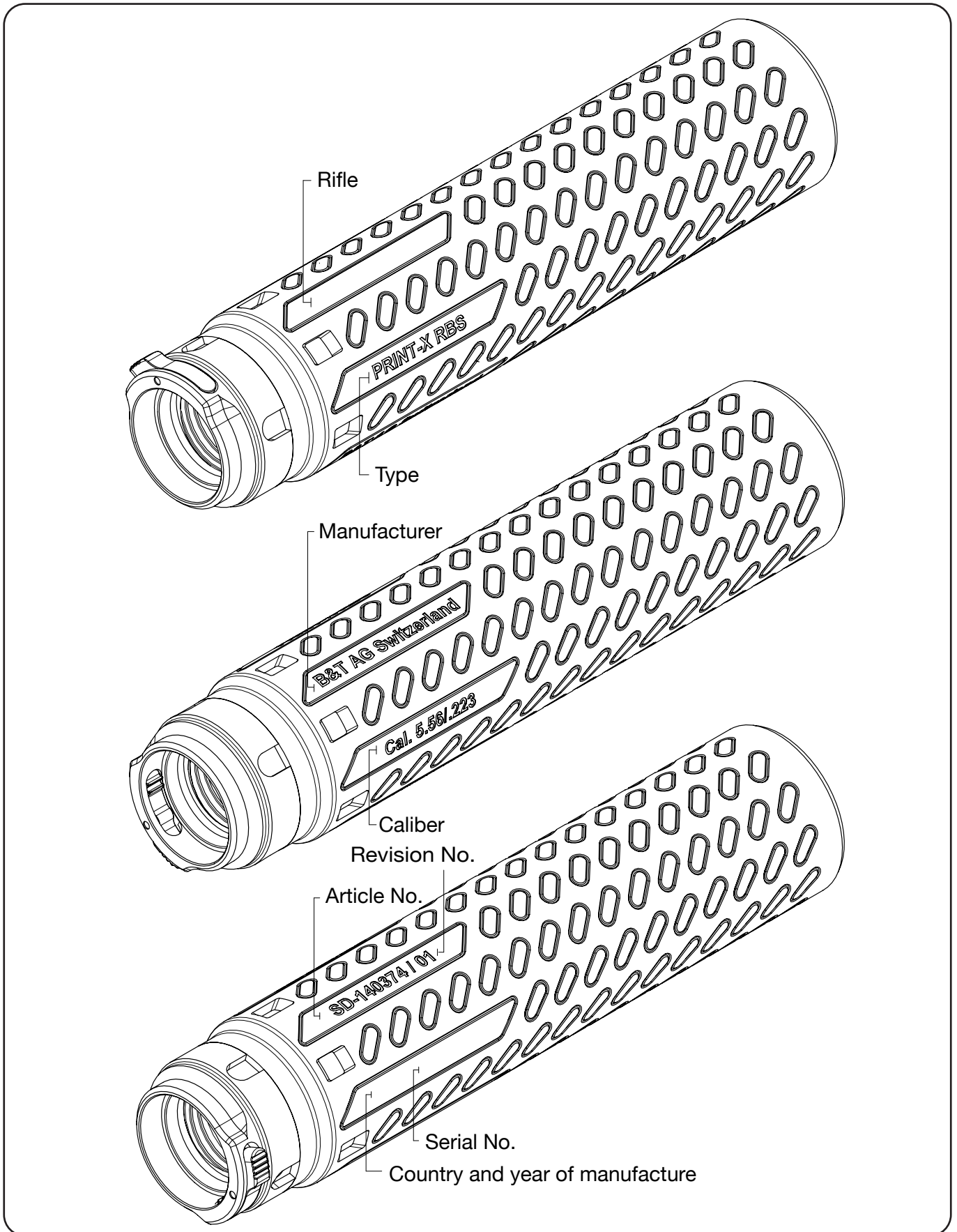
**Titan/Inconel 718:**

20.000 rounds with the high intensity shooting cycle (240 rounds in 3-4 Minutes, mixed semi and full auto)

All product specifications are subject to change without notice.

Published data are mean values and therefore not suitable acceptance criteria.

## 2.5 Type description



### 3. Mounting & Dismounting

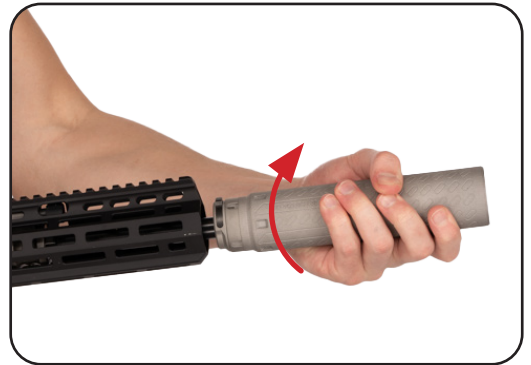
#### 3.1 Mounting suppressor

##### SAFETY ADVICE!



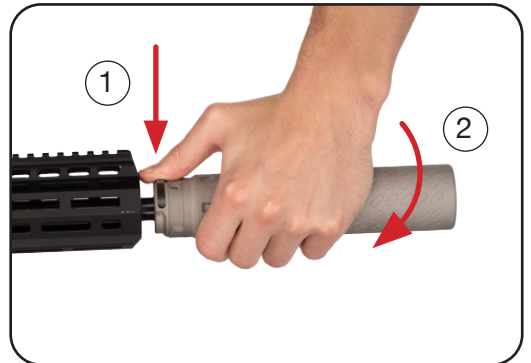
Clean the contact surfaces on the suppressor and flash hider / compensator and make sure that they are free from dirt and mechanical damage.

- a. Turn the suppressor counterclockwise until he clicks audibly in place.
  - » The suppressor is firmly seated on the barrel now.

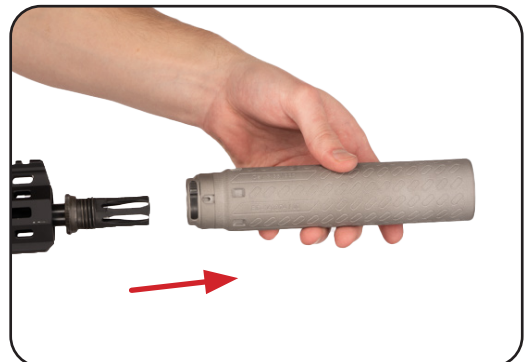


#### 3.2 Dismounting suppressor

- a. Press and hold the knob while turning the suppressor clockwise off the barrel.



- b. Remove the suppressor from the flash hider.



## 4. Maintenance

### 4.1 Storage

Store guns with installed suppressor upside down, with the barrel pointing downward, to prevent any residue from cleaning agents or condensed water from running down the barrel.



### 4.2 Field maintenance

Perform field maintenance on the following occasions:

- » Prior to use and after a longer period of non-use.
- » Daily in case of regular use.
- » Immediately after a suspicious incident.



Regular maintenance in the field / operation includes the following measures:

1. Visual inspection of the interior for foreign particles and cracks.
2. Visual inspection of the outer surfaces for cracks and dents, especially in the muzzle area.
3. Shake the suppressor to determine if any loose particles are audible.
4. Check proper mounting and dismounting of the suppressor.
5. Lubricate the threads on the flash hider/compensator with a film of oil.
6. Check suppressor for tight fit.

#### SAFETY ADVICE!



If the suppressor shows cracks, dents, damage in the muzzle area, loose particles, excessive contamination by carbon particles or other irregularities, it may no longer be used and must be presented to the unit armourer, firearms technician or manufacturer immediately.

### 4.3 Workshop maintenance

Execute the periodic workshop maintenance if one or more of the following criteria are fulfilled:

- » If sand, mud, water or other liquids got inside the suppressor and then had to be fired without being able to remove the residue from the inside.
- » Immediately after a suspicious incident.
- » 1500 rounds have been fired or at the latest every 2 years
- » The effect of the suppressor has decreased noticeably.

To perform a correct inspection of the suppressor, it must be disassembled from the gun in any case (see section „3. Mounting & Dismounting“ on page 9).

The periodic workshop maintenance includes the following measures

1. Visual inspection of the interior for foreign particles and cracks.
2. Visual inspection of the outer surfaces for cracks and dents, especially in the muzzle area.
3. Shake the suppressor to determine if any loose particles are audible.
4. Clean and degrease the muzzle tread and/or the contact surfaces on the flash hider / compensator with a small brush and inspect for defects.
5. Seal the suppressor with a plug and fill with “SchleTek Suppressor-Cleaner Evolution” (or other suitable solvent) for at least 8 hrs.
6. If a QD flash hider/compensator is installed, place it in a container filled with “SchleTek Suppressor-Cleaner Evolution” for at least 8 hours.
7. Rinse the suppressor and, if applicable, the flash hider/compensator with warm water.
8. Blow out the suppressor and, if applicable, the flash hider/compensator with compressed air.
9. Lubricate the thread on the muzzle, the flash hider/compensator, if applicable the thread on the suppressor as well as the outside of the suppressor with a film of oil.

SAFETY ADVICE!	
	If the suppressor shows cracks, dents, damage in the muzzle area, loose particles, excessive contamination by carbon particles or other irregularities, it may no longer be used and must be presented to the, firearms technician or manufacturer immediately.


### 4.3.1 Avoiding corrosion in the suppressor


Moisture inside a suppressor can occur if it is exposed to high humidity (e.g. water, rain...) or if a change in temperature causes condensation inside the suppressor. This moisture is not visible, but can never be completely excluded, even if you did not actually shoot at all and the suppressor was only mounted on the weapon for some time.

This moisture or condensed water, in combination with powder residues, can form a corrosive substance that can damage the suppressor. If this corrosive substance enters the weapon, it can also be damaged. Strong corrosion, including pitting, is hardly to be expected with appropriate care of the suppressor, but in extreme cases could lead to a structural weakening of the suppressor, which is why it must be avoided.


To prevent damage to the suppressor and the weapon due to corrosion, it is important to observe some safety rules:

- a. Always store and transport the weapon and suppressor separately from each other, i.e. do not leave the suppressor on the weapon after use; remove it whenever possible.
- b. If it is not possible to remove the suppressor from the weapon after use, the weapon should be temporarily stored with the muzzle or suppressor down to avoid that corrosive substances from the suppressor enter the muzzle thread and the weapon.
- c. Always keep the inside and outside of the suppressor dry; in case of doubt dry the suppressor before storing it, e.g. putting it in upright position on a radiator (please note weapon legislation!).
- d. When cleaning the weapon and suppressor, always remove the suppressor from the weapon first.
- e. Clean the suppressor regularly with a suitable cleaning agent (e.g. SchleTek Evolution).

SAFETY NOTICE!	
	<p>If these rules are not followed, the suppressor can be structurally weakened by corrosion and, in extreme cases, burst when the shot is fired!</p> <p>If these rules are not followed, the weapon may become corroded on the muzzle thread, the compensator or the flashhider, inside the barrel as well as in the weapon itself!</p>

SAFETY NOTICE!	
	<p>If there is any uncertainty as to whether the suppressor is still to be shot, present it to the fire-arms technician or manufacturer for inspection.</p>

**5. Accessories**  
**5.1 Cleaning agent**

Picture	Art.-No.	Description
	SCT-1986	SchleTek Suppressor-Cleaner Evolution

## **6. Warranty statement**

Warranty claims on behalf of the client are to be explicitly declared as such. During the legal warranty period, B&T provides warranty cover solely for defects that arise as a result of faulty materials, construction errors or poor workmanship. If a warranty claim is justified, B&T will, at its own discretion, either repair or replace the defective good. Costs incurred in transporting the defective good to B&T are borne by the Client. Spare parts fitted and replaced become the property of B&T.

Inasmuch as is legally permitted, any other liability of B&T is excluded, in particular liability for damages arising either directly or indirectly from the delivered good itself, from its use or from its defects.

Merchandise is covered by the warranty provisions of the manufacturer. Parts that are naturally subject to wear and tear, damage arising from insufficient maintenance work, noncompliance with operating regulations and cases of force majeure are all excluded from warranty cover. Warranty claims lapse if the Client itself or third parties alter or repair the delivered good without the prior written consent of B&T. All product specifications are subject to change without prior notice. Published data are mean values and therefore not suitable acceptance criteria.

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Notes:

