

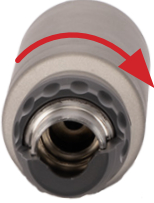



SUPPRESSOR STGW 90

OPERATOR MANUAL



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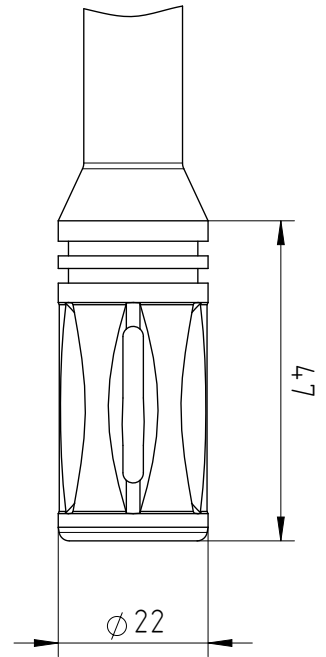
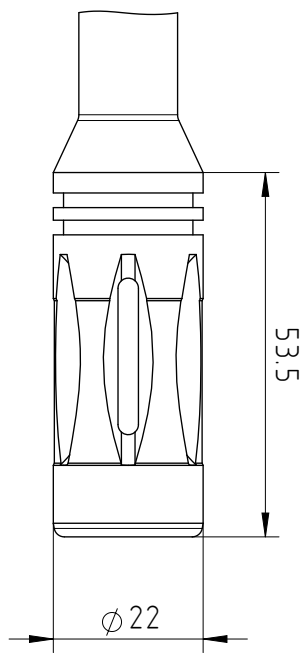
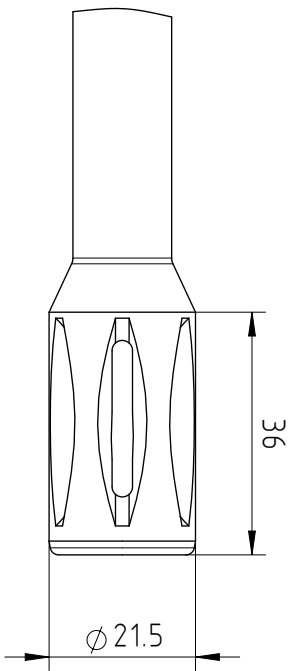
The directions in this document are intended to be in the direction of the shooting. For a simplified understanding of the direction of rotation, the two perspectives are shown below.

	Horizontally oriented	Vertically oriented
Clockwise		
Counterclockwise		

WARNING!



The suppressor shown here in this manual fit only on the STGW90 muzzles.
The muzzles of the SIG55x series can differ from the STGW90 muzzles, where these suppressors cannot be used.



WARNING!



Suppressed firearms produce less noise than non-suppressed 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 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 operator 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 when operating with serial fire

Suppressors designed for automatic firearms can be used in fully automatic fire mode. However, it must be taken into account that there is an enormous heat effect when shooting in the fully automatic fire mode. Therefore, it is recommended to shoot with the suppressor in short bursts and not to fire more than 90 rounds (30 x 30 round magazines). Afterwards, stop shooting if possible and let the suppressor cool down to prevent permanent damage to the suppressor. Eventual further restrictions by the weapon manufacturer must be followed.

1.3 Influence on point of impact

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

2. Technical specifications

2.1 Technical data

Designation	Univ. Stgw90	Univ. Stgw90 Comp.
Manufacturer	B&T AG, Switzerland	
Product ID	SD-124022	SD-124024
Interface	Safety quick release for Stgw90	
Caliber	GP90 (5.56x45/.223 Remington)	
Length	198 mm	179 mm
Length past barrel	141 mm	122 mm
Tube diameter	39 mm	
Weight	~485 g	~450 g
Material	Stainless steel, thermax/Inconel, steel	
Color	Black/Gray - Cerakote coating on request	
Surface treatment	Teniferated QPQ	
Sound reduction	~ 33 dB A	~ 31 dB A
Service life	Min. 5.000 rounds	
Full auto capable	Yes	
Ambient temperature for use	-45°C...70°C	

Designation	RBS Stgw90	RBS Stgw90 Comp.
Manufacturer	B&T AG, Switzerland	
Product ID	SD-124026	SD-124027
Interface	Safety quick release for Stgw90	
Caliber	GP90 (5.56x45/.223 Remington)	
Length	213 mm	183 mm
Length past barrel	155 mm	125 mm
Tube diameter	52 mm	
Weight	~680 g	~610 g
Material	Stainless steel, Thermax/Inconel, stell	
Color	Black/Gray - Cerakote coating on request	
Surface treatment	Teniferated QPQ	
Sound reduction	~ 31 dB A	~ 26 dB A
Service life	Min. 5.000 rounds	
Full auto capable	Yes	
Ambient temperature for use	-45°C...70°C	

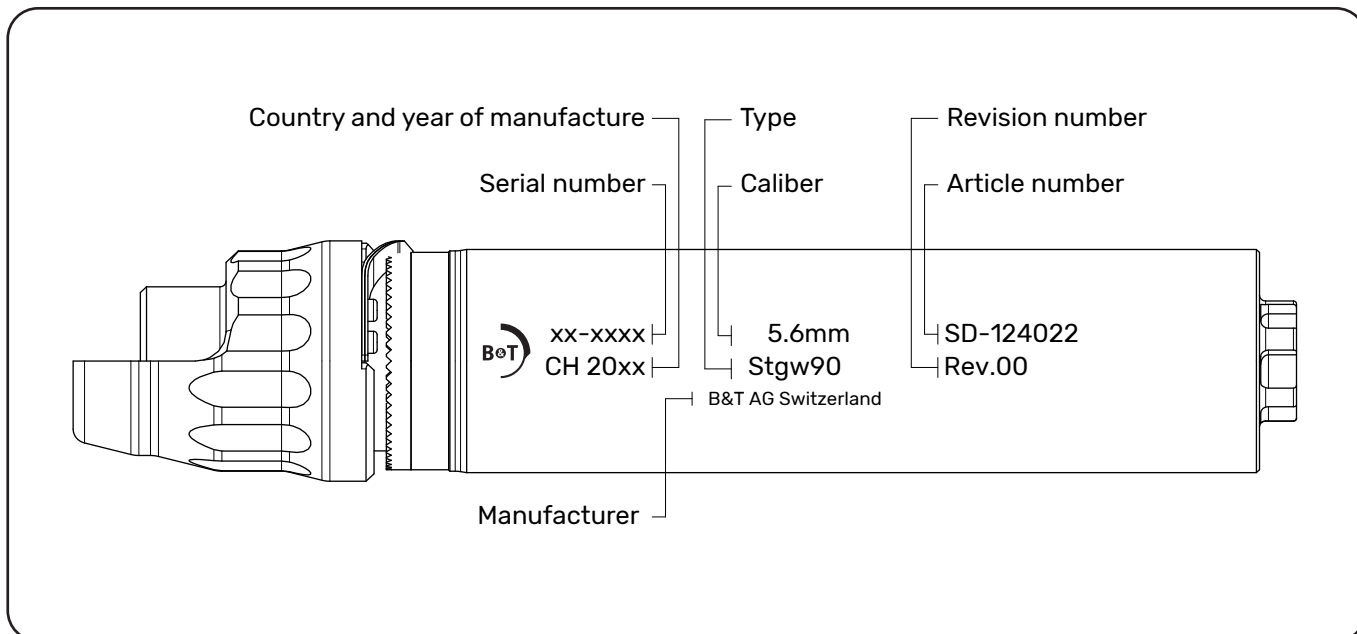
All product specifications are subject to change without notice.

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

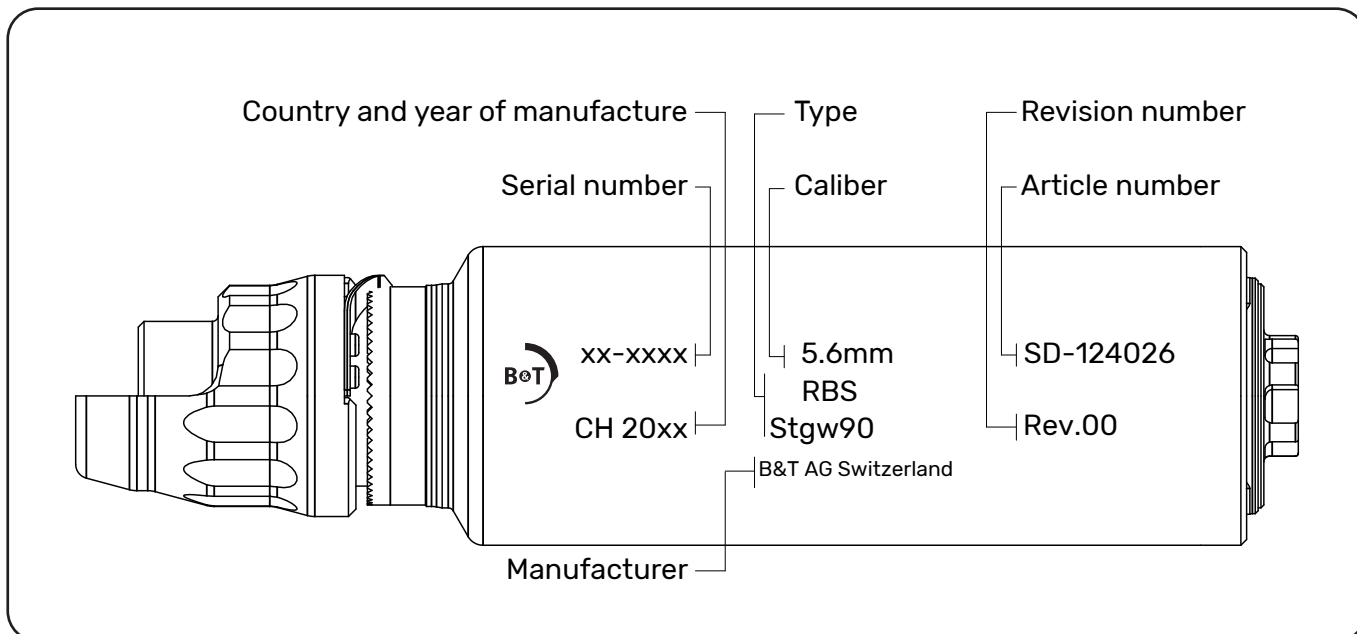
Specific technical data can be found in the data sheet of the respective suppressor. The data sheet name corresponds to the article number (see section "2.2 Type description" on page 8)

2.2 Type description

2.2.1 Universal Stgw90 - SD-124022/SD-124024



2.2.2 RBS Stgw90 - SD-124026/SD-124027



2.3 Nomenclature



2.4 Suppressors

2.4.1 Universal Stgw90

The Universal Stgw90 was developed on the basis of the B&T ROTEX-X suppressor, making it one of the lightest and most compact Inconel suppressors produced. The Universal Stgw90 suppressor is compatible with the Stgw90 and PE90 flashhider.



2.4.2 RBS Stgw90

The RBS (Reduced Backpressure System) suppressors feature an optimized design that maximally reduces backflow effects on the weapon while still achieving high damping performance.

The RBS Stgw90 suppressor is compatible with the Stgw90 and PE90 flashhider.



3. Mounting & Dismounting

3.1 Mounting the suppressor

a. Unscrew the nut from the suppressor body.



b. Slide the nut over the flashhider.


c. Slide the suppressor body over the flashhider.



d. Tighten the suppressor body counterclockwise while holding the nut. Tighten the suppressor by hand.

» There must be no more movement in the direction of the barrel.




Advice	
	Initially, the suppressor can be rotated almost without resistance. As soon as the spring hits the gear, a stronger resistance is felt.

e. Check that the suppressor body is firmly seated on the weapon.



3.2 Dismounting the suppressor

- a. Rotate the suppressor body clockwise while holding the nut.

Advice	
	As long as the spring touches the gear, resistance is felt. Then the resistance decreases and the rotation is almost silent.



- b. Remove the suppressor body from the barrel.



- c. Remove the nut from the barrel.



4. Maintenance procedures

4.1 Storage

Store weapons with the suppressor installed upside down so that the barrel faces down to prevent any residual cleaning agents or condensation from flowing into the barrel.



4.2 Field maintenance

Field maintenance shall be performed in the following sequence:

- » Before use and after a longer period of non-use.
- » Daily for regular use.
- » Immediately after any impact on the suppressor.



Regular maintenance in the field includes the following measures:

1. Visual inspection of the inside for foreign bodies and cracks.
2. Visual inspection of the external surfaces for cracks and dents, especially in the muzzle area.
3. Shake the suppressor to detect broken or detached inner parts.
4. Check that the assembly and disassembly are correct.
5. Lubricate the threads of the flashhider with a film of oil.
6. Check suppressor for tight fit.

SAFETY ADVICE!



If the suppressor has cracks, dents, damage in the muzzle area, loose parts, 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 Workshop maintenance

Perform periodic maintenance in the workshop if one or more of the following criteria are met:

- » 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 any impact on the suppressor.
- » 1500 rounds have been fired or every 2 years at the latest
- » The sound reduction declines noticeably.

To carry out a correct inspection of the suppressor, it must be removed from the weapon in any case (see section “3. Mounting & Dismounting” on page 11).

Periodic maintenance in the workshop includes the following measures:


1. Visual inspection of the inside for foreign bodies and cracks.
2. Visually inspect the damping elements for loose parts, damage and blocked bores.
3. Visual inspection of the external surfaces for cracks and dents, especially in the muzzle area.
4. Shake the suppressor to detect broken or detached inner parts.
5. Check the threads on the muzzle and on the flashhider for damage, clean them with a small brush and remove any grease/oil.
6. Close the suppressor with a plug and fill it with «SchleTek Suppressor-Cleaner Evolution» (or another suitable solvent) for at least 8 hours.
7. If a QD flashhider is installed, insert it in a container filled with SchleTek Suppressor-Cleaner Evolution for at least 8 hours.
8. Flush the suppressor and, if necessary, the flashhider with warm water.
9. Blow out the suppressor and, if necessary, the flashhider with compressed air.
10. Apply a film of oil to the muzzle thread, the flashhider, the muzzle thread, if necessary, and the outside of the suppressor.

SAFETY ADVICE!



If the suppressor has cracks, dents, damage in the muzzle area, loose parts, 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.

5. Accessories
5.1 Cleaning agent

Pos.	Item 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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