





ekt°g/lencer

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ERA®SILENCER – developed for the active hunt

A silencer's most important requirement, when used for hunting is suppression of the muzzle blast as effectively as possible, thus protecting the hearing of man and dog.

We developed our ERA[®]SILENCER with the objective of achieving optimal suppression whilst offering a compact and light-weight design, full Magnum compliance and a long service life.

All suppressors of the SOB series feature an over-barrel design, meaning one part of the silencer extends backwards from the muzzle and around the barrel. This reduces the net length, yet allows for very good suppression values. In addition, the first round pop common in other silencers has been reduced to an absolute minimum. Recoil and muzzle flash are considerably decreased as well.

Our ERA[®] SILENCERs are easily disassembled. The threaded bushing is exchangeable, thus facilitating the suppressor's usage with other rifles of the same caliber, but with a different muzzle thread.

The supplied barrel bushing attaches to the breech end of the over-barrel silencer. This bushing protects the silencer in general and the muzzle thread from lateral forces in particular, and prevents the ingress of dirt and snow.

The surface structure guarantees significantly less powder residue adhering to the silencer's interior. Transverse grooves milled on the outer tube offer sufficient grip for the installation and removal while also helping the silencer cool down faster.

The step-like design protects the seals during disassembly so they will not be exposed to any powder residue in the outer tube. The surface coating acc. to MIL-SPEC MIL-A-8625F Type III meets the highest requirements on hardness and corrosion resistance.

Offering numerous advantages, our ERA[®] SILENCERs are excellently equipped for everyday hunting use for a long time.

Please note:

The ERA[®]SILENCER is designed for hunting only, not for series of shots that follow each other in close succession, e.g. in a shooting cinema. After a series of a maximum of 10 shots, the suppressor must be allowed to cool down so that it can be touched with bare hands!

This does not apply to our hybrid silencer SOB2S. The core and panels are made of highly tempered stainless steel. This makes this silencer extremely resilient and also suitable for shooting cinema use.

Good to know:

The specified damping values were determined in independent test series according to MIL-STD 1474D by DEVA (German research institute for hunting and sporting weapons). With this measuring method, the measuring microphone is placed at a distance of 1.0 meter 90° to the left of the muzzle.

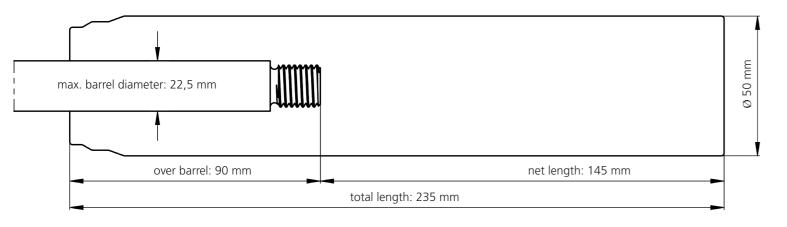






SOB1 – The High-Performance One







- Minimal first round pop
- Especially suited for Magnum calibers



High Suppression Up to 32 dB*



Minimized First Round Pop



Net Length 145 mm



Weight 387g incl. ERA®LOC



Reduced Recoil



ERA®LOC With optional ERA®LOC quick release





Exchangeable Threaded Bushing



Step Geometry Eliminates damage to the seals



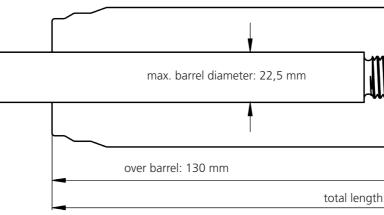


Surface Coating acc. to MIL-SPEC



MAGNUM Compliance





• Short net length of only 105 mm

- Especially suited for use in tight spaces or during follow up
- Only slightly affects the rifle's handling



High Suppression Up to 28dB*



Minimized First Round Pop



Net Length 105 mm



Weight 378g incl. ERA®LOC



Reduced Recoil



ERA®LOC With optional ERA®LOC quick release



SOB2 – The All-Rounder

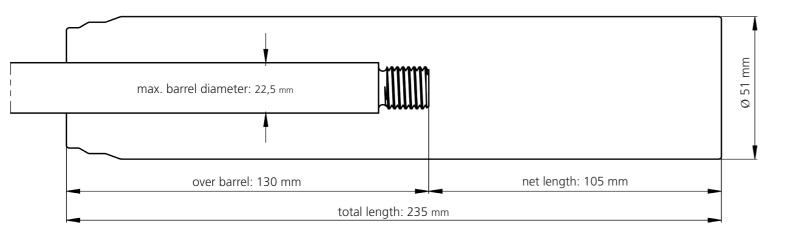
		Ø 50 mm
	net length: 105 mm	
: 235 mr	n	





SOB2S – The Resilient One





- "Hybrid" silencer with core and baffle component made from hardened and tempered steel
- Outer tube made from high-grade aluminum with reinforced wall
- Suited for shooting cinema



High Suppression Up to 31dB*



Minimized First Round Pop





Net Length 105mm



Weight 520g incl. ERA®LOC



Reduced Recoil



ERA[®]LOC With optional ERA®LOC quick release

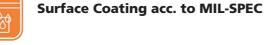




Exchangeable Threaded Bushing

Step Geometry Eliminates damage to the seals













Suited for shooting cinema Baffle component made from stainless steel

General

Long-term exposure to noise is already harmful above 85 dB, and above 120 dB hearing damage is possible even with only brief exposure. Values above 137 dB, on the other hand, lead to irreparable damage to the hearing of humans and animals.

The average sound pressure of a caliber like .308 Winchester is 160 dB, with magnum calibers it is significantly higher. Suppressors can reduce this to the non-harmful area. (e.g. damping performance ERA-Silencer SOB3D: -31dB, cal. .308 Win.)

The report of the rifle is made up of two sources:

1.The muzzle blast

The explosive "bang" generated by the sudden expansion of the propellant gas at the muzzle when the projectile leaves the barrel.

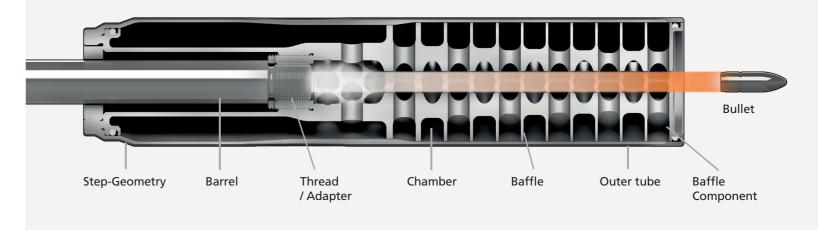
2. The sonic boom (projectile speed > 333m/s) This is because the projectile flies at supersonic speed, comparable to a fighter jet breaking the sound barrier.

A silencer can only reduce the muzzle blast to a level that is no longer harmful. It has no influence on the sonic boom of the projectile. However, the shot is by no means as quiet as we know it from movie and television. You would need subsonic ammunition for that. However, this does not have enough energy and is therefore not suitable for hunting.

Structure and function of Suppressors

Suppressors are usually constructed cylindrically and have an internal baffle component with several bores and chambers. The walls of these chambers are called baffles. which can differ in design. Perforated panels and other geometric shapes are possible. The arrangement of the bores and chambers, the volume of the suppressor, but also the use of metal mesh are decisive for the efficiency of the noise reduction. In addition, the dampening performance is also affected by caliber, barrel length and ammunition.

When the shot is fired, the escaping hot propellant gases are deflected and slowed down inside the suppressor. Reducing the velocity and temperature of the propellant gases reduces the resulting muzzle blast and eliminates the muzzle flash. The bullet itself has "free flight" in the suppressor, which means it does not touch the suppressor. Thus, there are no negative effects on the precision.

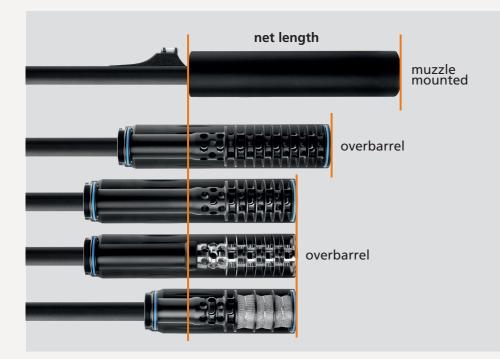




Suppressor know-how

There are two kinds of silencers

There are basically two types of silencers: muzzle mounted and over-barrel silencers. The advantage of the over-barrel silencer is the shorter increase in the overall length of the weapon. On the downside, however, you have to do without an open sight.



Advantages of silencers

Muzzle blast suppression

Silencers can reduce the muzzle blast to a level that is no longer harmful.

Muzzle flash reduction

Silencers absorb the muzzle flash almost completely. In poor light conditions (e.g. at dawn or dusk) the shooter is not dazzled and can better see how the animal behaves in the shot. Quick follow-up shots are possible without any problems.

Up to 50% recoil reduction

Recoil reduction and reduced muzzle flip-up are other advantages of silencers. These lead to significantly improved shooting results for many shooters.

Improved accuracy

Similar to a muzzle brake, the silencer reduces accuracy influencing turbulence on the projectile. In addition, the weight of the damper calms the vibration of the barrel, which is also beneficial for shooting performance.

Directional hearing is possible

In contrast to ear protectors, silencers hardly restrict directional hearing (the ability to recognize the spatial origin of acoustic signals).

Disadvantages of silencers

- Overall length increases and is therefore less "handy"
- The balance changes due to the additional weight at the muzzle
- Changed point of impact compared to shooting without a silencer
- Heat haze with rapid firing, which is not relevant for hunting
- Additional maintenance effort

Individual selection criteria

Suppression performance

How much suppression should it be? A reduction in the sound level by 6 dB corresponds to a halving of the sound pressure. A comparatively low reduction value of 20 dB already means a reduction in sound pressure of a whopping 90 percent! The best results are achieved either with particularly large-volume silencers or silencers with metal mesh.

• First Round Pop

The oxygen in the silencer leads to a louder pop when the first shot is fired, the so-called first round pop. This effect does not apply to direct follow-up shots. A minimal first round pop is particularly important for hunters, since often only one shot is fired when hunting. Silencers with a metal mesh are ideal here, as they produce almost no first round pop – e.g. the ERA Silencer SOB3D!

• Net Length

Attaching a silencer lengthens the weapon and affects the usual balance as well as handling e.g. on high seats. However, it should be noted that smaller silencers usually achieve a lower suppression performance. Exceptions here are silencers with metal mesh, such as e.g. the ERA Silencer SOB3D.

• Weight

Large-volume silencers are characterized by better suppression values and higher resilience. In return, one has to accept a higher weight, which negatively affects the balance of the weapon.

• Toughness - what do I need the silencer for?

When hunting, silencers are usually not exposed to high volume shooting, as most of the time only 1 or 2 shots are fired in quick succession. However, if the silencer is also meant to be used on the shooting range or in the shooting cinema, average hunting silencers easily reach their limits due to the high or fast fire rate. Tougher silencers use more heat-resistant materials, which increases the weight and costs. Highly resilient and suitable silencers for shooting cinemas, e.g. the ERA-Silencer SOB2S with a stainless steel interior.

• Price

As everywhere, the price of silencers varies greatly, depending on the materials, manufacturer and quality. The most expensive suppressor does not necessarily need to be the best. Every hunter has to decide for himself what his requirements are and what his budget allows.



Suppressor know-how

dy" t at the muzzle rithout a silencer for hunting



SOB3D – The Efficient One

Maintenance

Basically, silencers are highly technical products that are exposed to extreme forces and are therefore subject to corresponding wear and tear.

With a little maintenance, however, this can be kept within limits and the performance of a silencer can be maintained.

After each hunt, silencers, regardless of the type and material, should be removed from the gun and carefully aired and dried, even if no shot has been fired. Condensation and aggressive propellant residues can guickly lead to corrosion in the silencer, in the barrel and especially on the muzzle thread, which can lead to damage to the silencer and the weapon.

The suppressor should be cleaned at least once a year or after a maximum of 100 shots.

All ERA silencers can be taken apart and are therefore particularly easy to clean. The best way to remove deposits and powder residue from the outer tube and the baffle component is to use a special silencer cleaner or a mild soap (e.g. detergent).

In special cases, we recommend placing the silencer in an oil bath (a commercial machine oil is recommended). Leave the silencer for a few hours or e.g. overnight in the bath, till the crusting loosens and you can disassemble the silencer easily. Bottle brushes are very good for cleaning the outer tube, and we recommend using a soft brush or a kitchen sponge to clean the baffle component.

Take Care!

- Never use aggressive cleaning agents containing chlorine or salt. These can harm the metal and significantly shorten their lifespan.
- After cleaning, all parts must be absolutely dry! Only then may the silencer be reassembled.

If you follow these basic rules, your silencer will accompany you in your hunting life for many years.

Conclusion

There is no one best silencer. It is important to understand the individual advantages and disadvantages in order to find the most suitable silencer for the desired application.

Being well informed and comparing data is always a good start. We would like to offer you our support.



Assembling



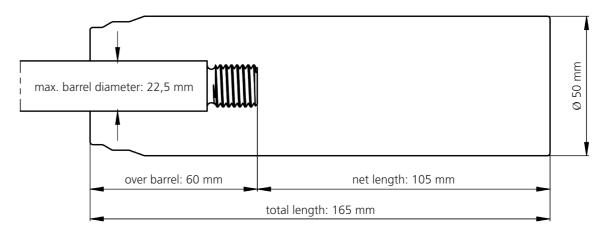
Cleaning



Cleaning advice







- Excellent suppression due to integrated stainless steel mesh
- Super short and light the rifle's handling hardly changes



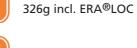
NEW!

High Suppression Bis zu 31 dB, (Wert ermittelt durch DEVA)





Weight







ERA®LOC With optional ERA®LOC quick release



• No first round pop. Especially important for hunting!



Minor Muzzle Flash



Exchangeable Threaded Bushing



Step Geometry Eliminates damage to the seals



Surface Coating acc. to MIL-SPEC



MAGNUM Compliance At least 58 cm barrel length



EKT[®]SILENCER

max. Caliber	Thread size	SOB 1 Part Number	SOB 2 Part Number	SOB 2S Part Number	SOB 3D Part Number
	M13x1	SOB01-024A	SOB02-024A	-	SOB3D-024A
	M14x1	SOB01-025A	SOB02-025A	-	SOB3D-025A
	M15x1	SOB01-026A	SOB02-026A	_	SOB3D-026A
	M16x1	SOB01-027A	SOB02-027A	-	SOB3D-027A
5,7 mm	M17x1	SOB01-028A	SOB02-028A	_	SOB3D-028A
(.224)	M18x1	SOB01-029A	SOB02-029A	-	SOB3D-029A
	1/2"-20 UNF	SOB01-030A	SOB02-030A	_	SOB3D-030A
	1/2"-28 UNEF	SOB01-031A	SOB02-031A	-	SOB3D-031A
	5/8"-24 UNEF	SOB01-032A	SOB02-032A	_	SOB3D-032A
	ERA®LOC	SOB01-042A	SOB02-042A	-	SOB3D-042A
	M13x1	SOB01-033A	SOB02-033A	_	SOB3D-033A
	M14x1	SOB01-034A	SOB02-034A	_	SOB3D-034A
	M15x1	SOB01-035A	SOB02-035A	_	SOB3D-035A
	M16x1	SOB01-035A	SOB02-035A	_	SOB3D-035A
6 E mm	M17x1	SOB01-030A	SOB02-030A	_	SOB3D-030A
6,5 mm (.256)	M17x1	SOB01-037A	SOB02-037A	_	SOB3D-037A
(1/2"-20 UNF	SOB01-038A	SOB02-038A	_	SOB3D-038A
	1/2 -28 UNEF	SOB01-039A	SOB02-040A	_	SOB3D-040A
	5/8"-24 UNEF	SOB01-040A	SOB02-040A	-	SOB3D-040A
	ERA®LOC			-	
	ERASLOC	SOB01-046A	SOB02-046A	-	SOB3D-046A
	M13x1	SOB01-000A	SOB02-000A	SOB2S-000A	SOB3D-000A
	M14x1	SOB01-001A	SOB02-001A	SOB2S-001A	SOB3D-001A
	M15x1	SOB01-002A	SOB02-002A	SOB2S-002A	SOB3D-002A
	M16x1	SOB01-003A	SOB02-003A	SOB2S-003A	SOB3D-003A
7,62 mm	M17x1	SOB01-004A	SOB02-004A	SOB2S-004A	SOB3D-004A
(.30)	M18x1	SOB01-005A	SOB02-005A	SOB2S-005A	SOB3D-005A
	1/2"-20 UNF	SOB01-006A	SOB02-006A	SOB2S-006A	SOB3D-006A
	1/2"-28 UNEF	SOB01-007A	SOB02-007A	SOB2S-007A	SOB3D-007A
	5/8"-24 UNEF	SOB01-008A	SOB02-008A	SOB2S-008A	SOB3D-008A
	ERA®LOC	SOB01-043A	SOB02-043A	SOB2S-043A	SOB3D-043A
	M13x1	SOB01-009A	SOB02-009A	SOB2S-009A	SOB3D-009A
	M14x1	SOB01-010A	SOB02-010A	SOB2S-010A	SOB3D-010A
	M15x1	SOB01-011A	SOB02-011A	SOB2S-011A	SOB3D-011A
	M16x1	SOB01-012A	SOB02-012A	SOB2S-012A	SOB3D-012A
8 mm	M17x1	SOB01-013A	SOB02-013A	SOB2S-013A	SOB3D-013A
(.323)	M18x1	SOB01-014A	SOB02-014A	SOB2S-014A	SOB3D-014A
	1/2"-20 UNF	SOB01-015A	SOB02-015A	SOB2S-015A	SOB3D-015A
	1/2"-28 UNEF	SOB01-016A	SOB02-016A	SOB2S-016A	SOB3D-016A
	5/8"-24 UNEF	SOB01-017A	SOB02-017A	SOB2S-017A	SOB3D-017A
	ERA®LOC	SOB01-044A	SOB02-044A	SOB2S-044A	SOB3D-044A
	M14x1	SOB01-018A	SOB02-018A	SOB2S-018A	_
	M15x1	SOB01-019A	SOB02-019A	SOB2S-019A	-
	M16x1	SOB01-020A	SOB02-020A	SOB25-020A	-
9,5 mm	M17x1	SOB01-021A	SOB02-021A	SOB2S-021A	-
(.375)	M18x1	SOB01-022A	SOB02-022A	SOB25-022A	-
	5/8"-24 UNEF	SOB01-022A	SOB02-023A	SOB25-023A	_

SOB1 The High-Performance The All-Rounder One

SOB2

12 RECKNAGEL





The Resilient One The Efficient One

RECKNAGEL 13

ERA®LOC Quick Release

The seemingly endless screwing and unscrewing of the silencer has an end!

The ERA®LOC quick release allows the silencer to be set up and released quickly and easily with just a short 60° turn. The very robust thread ensures a secure hold of the suppressor due to the high number of threads. The attachment on the front side of the threaded bush protects the thread itself from powder residues and guarantees a consistent and safe function. Our ERA®SILENCERs are now available with optional ERA®LOC quick release. All you need is the matching ERA®LOC muzzle adapter.

Existing ERA®SILENCERs can be easily retrofitted. You need our ERA®LOC adapter set, consisting of muzzle adapter, threaded bushing with assembly bolt and the assembly tool.

ERA®LOC muzzle adapter, short (M13x1, M14x1, M15x1, ½"-20, ½" -28)	EBLOL H/SX1	Thread Size	Part Number Muzzle Adapter	Part Number Adapter Set*
		M13x1	S0002-1310	S0003-1310
		M14x1	50002-1410	S0003-1410
		M15x1	S0002-1510	S0003-1510
ERA®LOC muzzle adapter, long (M16x1, M17x1, M18x1, 5/8"-24)		M16x1	S0002-1610	S0003-1610
		M17x1	S0002-1710	S0003-1710
	ERSLOC	M18x1	S0002-1810	S0003-1810
		1/2"-20 UNF	S0002-1220	\$0003-1220
		1/2"-28 UNEF	S0002-1228	S0003-1228
		5/8"-24 UNEF	S0002-5824	S0003-5824

*Consists of muzzle adapter and threaded bushing incl. mounting toggle and assembly tool

ERA®LOC Muzzle Brake	3	Part Number
Technical data:	8	50000-0001
• Length: 49 mm		
• Net length: 31mm		NEW!
• Diameter: 24mm • Weight: 62gr		

Our new ERA[®]LOC muzzle brake helps reduce the recoil considerably. Precision machined from high grade steel. Manganese phosphate finish for high corrosion resistance. The short and compact brake extends your rifle by only 31 mm.

Equipped with our ERA®LOC quick release, the muzzle brake attaches quickly and easily to the barrel with just a short 60° turn (ERA[®]LOC muzzle adapter required). The offset pattern of the gas ports reliably avoids unintended loosening of the muzzle brake.

Ideal whenever the use of a silencer is not allowed. Fits all calibers up to .375.

ERA®LOC Threaded Bushing Part Number with Mounting Toggle S0000-0000 **ERA®LOC Thread Protection Nut** • Protects the muzzle thread while the silencer is removed Part Number • Made of heat resistant material S0001-0001 • With inner thread, shot resistant

Threaded Bushing for standard threads with Mounting Toggle



Thread Protection Nut

• Protects the muzzle thread while the silencer is removed

- Transverse grooves offer a better grip
- Aluminum, black anodized



Barrel Bushing Included with every ERA®SILENCER

Assembly Tool

Included with every

ERA®SILENCER



ERA® SILENCER Protective Sleeve

by Niggeloh



RECKNAGEL 14



Thread Size	Part Number
M13x1	S0000-1310
M14x1	S0000-1410
M15x1	S0000-1510
M16x1	S0000-1610
M17x1	S0000-1710
M18x1	S0000-1810
1/2"-20 UNF	S0000-1220
1/2"-28 UNEF	S0000-1228
5/8"-24 UNEF	S0000-5824

Thread Size	Part Number
M13x1	S0001-1310
M14x1	S0001-1410
M15x1	S0001-1510
M16x1	S0001-1610
M17x1	S0001-1710
M18x1	S0001-1810
1/2"-20 UNF	S0001-1220
1/2"-28 UNEF	S0001-1228
5/8"-24 UNEF	S0001-5824

Modell	Part Number
SOB1 / 2 / 3D	00002-933A
SOB 2S *	00003-150A

*heat resistant material

Part Number



- Protects the silencer from damage
- Additional suppression of the gunshot sound
- Tapered cut according to silencer shape reliably prevents slipping of the sleeve
- Made of high-quality elastic neopren, black
- Made in Germany by Niggeloh

Modell	Lenght	Part Number
SOB 1 / 2 / 2S	235 mm	S0010-0001
SOB 3D	165 mm	S0010-0002





It's all about silence.

www.era-silencer.de



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