



## Instruction manual Roto 50 Pro



The EPARMS Roto 50 Pro SYLENCER was specially developed for hunting and is characterized by the following features:

- extremely high attenuation 25 -38 dB
- Modular construction
- dismountability
- weight
- Multi-caliber capability
- Stability
- Wear part replacement
- Saltwater and acid resistant aluminum

It is the world's first hybrid silencer that can be self-configured!

Its modular design allows you to configure the silencer so that it can be used for a wide variety of applications, weapons, calibers and fields of use.

The conversion for shooting range/cinema, driven hunt, stalk and raised hide can be done even without tools.

What was also an important aspect in the development is the exchange of the threaded bushings, as well as the exchangeable sintered inserts for various CIP calibers.

With the sintered inserts, the damping performance can be controlled. The more volume and surface a silencer has, the more damping performance can be achieved.

A silencer is a wearing part and this is exactly what we as a manufacturer have set out to do in order to put an end to this problem.

With the Roto 50 Pro, you acquire a very modular and innovative silencer made in Germany, which undergoes many quality and dimensional tests during its manufacturing process.

Basic design of the silencer without additional elements.

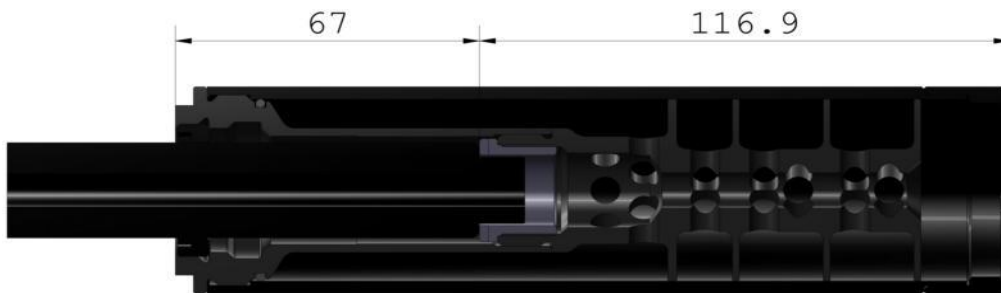
This is excellent for driven hunt or shooting cinema.

The dimension 67 mm (6.7 cm) is given from the flat contact surface of the muzzle thread.

The dimension 117 mm (11.7 cm) is also given from the flat contact surface of the muzzle thread.

The weight incl. threaded insert is 355 grams in the basic assembly.

The attenuation performance is approx. 25-28 dB.

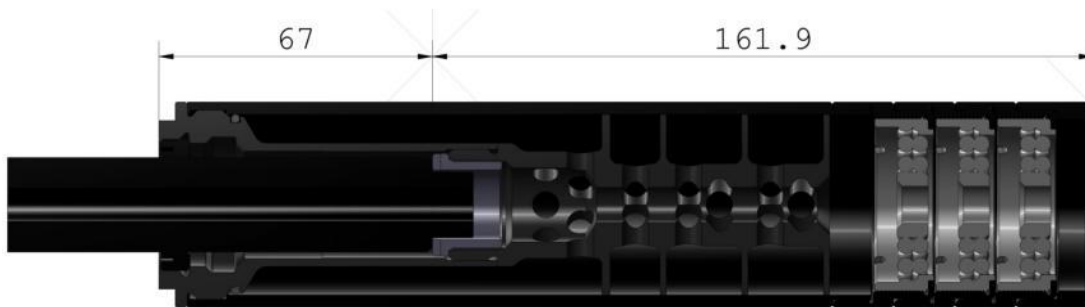


e.g. basic structure +3 damping elements

Weight: approx. 460 gram

Caliber recommendation: .308 Win , 8x57 , .222 / .223

The damping power is approx. 32- 35 dB.



e.g. basic structure +5 damping elements ( maximum recommendation of elements )

Weight: approx. 530 gram

Caliber recommendation: 30-06, 6,5 , 300 Win Mag. ( rapid caliber )

The damping power is about 35-38 dB.



Each additional damping element ( sinter insert holder and sinter insert) is 35 grams and extends the silencer by 15 mm ( 1.5 cm )  
Included is a key to be able to exchange the sinter inserts.



**Attention!**

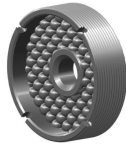
**Always make sure that you use the correct sintering inserts for your caliber, otherwise the silencer may explode.**

# Naming of the individual components

1. lid

2. sinter insert holder

3. sinter insert



4. jacket pipe

5. brake

6. end cover

7. thread insert

8. barrel protector



To disassemble, service and/or replace threaded inserts on the silencer, proceed as follows.

- Remove the barrel protector.



- Clamp the supplied assembly tool in a vice.
- Now place the silencer with the underside (hexagonal) in the tool.
- Now turn the outer casing counterclockwise and open the silencer.

Assembly tool



- Clamp the supplied mounting tool in a vice
- Place the silencer on the mounting tool
- Insert a 6 mm steel rod through one of the holes in the brake and turn counterclockwise.
- now you can remove the threaded insert and replace it

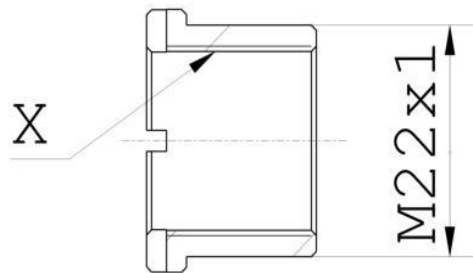
Assembly tool



# Thread inserts

The thread inserts are available in the following sizes:

M18x1  
M17x1  
M16x1  
M15x1  
M14x1  
M13x1



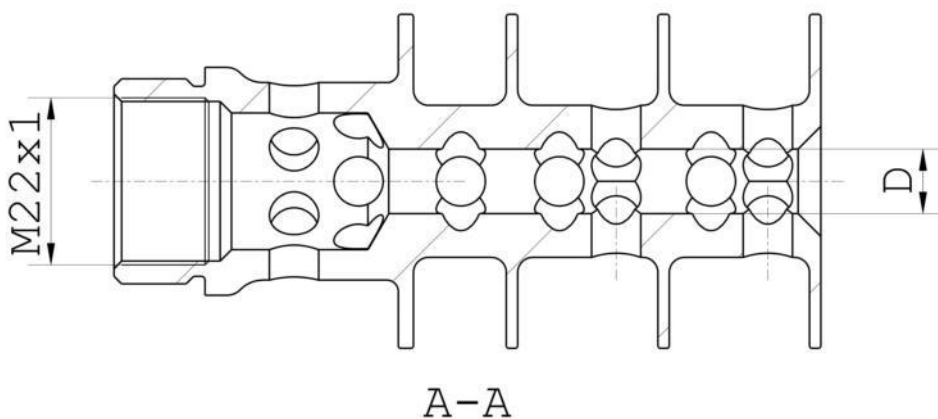
5 / 8 24 UNEF  
1 / 2 28 UNEF

# Brakes

The brakes are available in two sizes:

Up to caliber group .30 and up to caliber group .375.

The internal thread is always M22x1, so you can also use quick-change couplings from other manufacturers.



# Sintereinsätze

The sinter inserts are available in the following sizes:

Kaliber .222/223 5,6 mm

Kaliber .264 6,5 mm

Kaliber .30 7,62 mm

Kaliber .323 8 mm

Kaliber .375 9,3 mm



## **Attention!**

**Always make sure that you use the correct sintered inserts and the correct brake for your caliber, otherwise the silencer may explode.**

# Storage and warehousing

Always remove the silencer from your gun, as moisture and powder residues can cause chemical reactions which can attack the muzzle thread and your barrel.

We recommend one of our silencer holders to store your silencer upright in the gun cabinet and thus ensure the drying of the silencer.

This increases the life span of your silencer immensely.

The silencer holders can be attached to your gun cabinet door by means of a magnet.



## **Attention.**

**A silencer is equal to a gun and must always be stored in the gun safe.**





# Cleaning and maintenance

We recommend cleaning (maintenance) after approx. 150-200 shots. After cleaning, please grease all threads and O-rings with gun grease to prevent the threads from sticking due to powder residues.



**Attention !!!!**

**For cleaning the sintering inserts, please use only washing-up liquid and no aggressive cleaning agents.**

**Before shooting, make sure that all components are screwed tightly together again.**

**If the damping elements are used, you should let the silencer cool down after 10 shots, otherwise the sintering inserts may be damaged.**

**For a higher shooting performance up to 30 shots, please use only the basic structure of the silencer.**

We also use stainless steel mesh in our mufflers to increase the damping performance.

This will also wear out after some time and can be reordered as a replacement kit.

We recommend that all work and maintenance, including disassembly, be performed by your dealer or gunsmith.

**Caution - General safety instructions:**



**Before loading, check that there are no foreign bodies in the silencer.  
in the silencer before loading.**

**Make sure that no foreign bodies can get into the silencer even during use.**

**Foreign bodies (e.g. water, snow, earth, wood) can cause blasting and thus cause serious injuries to the shooter or bystanders.**

**Before each use, check that the correct size of sintering inserts are installed, this could also cause blasting of the silencer.**

**An excessive number of shots in succession can lead to overheating and damage to the silencer and sintering inserts.**

**There is a risk of injury from burns when the silencer is fired hot.**

**Familiarize yourself with the handling of the silencer before use.**

**For cleaning the sintering inserts, use only rinsing agent and no aggressive cleaners.**

**Before firing, make sure that all components are screwed tight again.**

**If sintered inserts are used, allow the silencer to cool down after 3 shots, otherwise the sintered inserts may be damaged.**

**For higher firing rates, use only the basic design of the silencer.**

**Only CIP guided calibers may be fired.**