

# AU jet-Z™COMPACT suppressor



# Description

The Ase Utra jet-Z™ COMPACT is a high-performance suppressor designed for centrefire rifles up to .300 Win Mag calibre.

Manufactured in Finland by Ase Utra OY, the jet- $Z^{\mathbb{N}}$  COMPACT suppressors incorporate Ase Utra's patented jet- $Z^{\mathbb{N}}$  baffle system. The suppressors are all-steel, all-welded units rated for hunting, sport shooting or professional use on bolt-action or semi-automatic weapons.

The jet-Z<sup>™</sup> COMPACT and suppressor adds only 550 to 570 grams net weight and 150 mm net length to a typical rifle – and with a diameter of just 40 mm, the suppressor is slim enough to be used with low-mounted telescopic or iron sights.

The jet-Z™ COMPACT suppressors are available with a variety of internal threads to fit directly onto the rifle barrel. Standard threads include; MI4xI, MI7xI, MI8xI, ½"x20 UNF, ½"x28 UNEF to fit most current centrefire rifles.

### **Performance**

The jet-Z<sup>™</sup> COMPACT suppressor reduces the weapon sound pressure level by 29 to 32 dB (depending on ammunition type), and significantly reduces recoil and muzzle flash. The result is a weapon firing full power ammunition, with a muzzle signature lower than that of an unsuppressed .22 rimfire rifle.

All standard rifles tested with the jet-Z™ COMPACT suppressors comply with the latest personal noise exposure limit set by European Directive 2003/10/EC (140 Pa or 137 dB(C)).

Calibres	.243 Win300 Win Mag
Weight (Depending on calibre and thread type)	550-570 g
Diameter	40 mm
Overall length of suppressor body / Added length to weapon	180 / 150 mm
Net sound suppresssion (ref. U.S. MIL-STD-1474D )	29-32 dB (A)
Warranty	2 years

# AU S series suppressors



# Description

The Ase Utra S series sound suppressors are available in various calibres, from .243 Win up to .338 Lapua Magnum. Manufactured in Finland by Ase Utra OY, the S series suppressors are manufactured out of 300 series stainless steel and are assembled by welding .The S series suppressors have a strong construction and are built to for a long service life.

The small S series S5 suppressor only adds 112 mm to the length of the weapon, the diameter being 45 mm.

The S series S6 suppressor is intended for larger hunting calibres such as .338 Win Mag and 9,3x62. The S series S6 suppressor adds 132 mm to the length of the weapon and the diameter is 45 mm.

In production is also the S series S7 model, for users seeking the maximum sound suppression levels. The S series S7 suppressor adds the length of the weapon by 156 mm and has the same diameter, 45 mm. The S7 model is especially intended for sniper type rifles.

The S series suppressors are available with a variety of internal threads to fit directly onto the rifle barrel. Standard threads include M14x1, M15x1, M17x1, M18x1, ½"x20 UNF to fit most current centrefire rifles.

# **Performance**

The S series suppressors reduce the weapon sound pressure level by 22-35 dB (dependant on suppressor model and calibre).

The S series suppressors also reduce recoil and muzzle flash significantly. Rifles tested with the S series suppressors, comply with the latest personal exposure limit set by the European Directive 2003/10/EC (140 Pa or 137 dB (C)).

Calibres	S5 .243 Win300 Win Mag S6 .338 Win Mag, 9.3x62, 9.3x66, .375 H&H S7 .308 Win338 Lapua Magnum
Weight	S5 580 g S6 650 g S7 780 g
Diameter	S5, S6 and S7 45 mm
Overall length of suppressor body / Added length to weapon	S5 122 mm / 112 mm S6 142 mm / 132 mm S7 166 mm / 156 mm
Net sound suppression (ref. US MIL-STD-1474D)	S5 24-27 dB (A) S6 22-25 dB (A) S7 32-35 dB (A)
Warranty	2 years

# AU jet-Z™CQB-QM suppressor



# **Description**

The Ase Utra jet-Z™ CQB-QM suppressor is a lightweight, ultra-compact assault rifle suppressor designed for quick and easy fitting to standard 22 mm diameter A1 and A2 flash-hiders utilized in the M16 / M4 / HK416 family of weapons.

Manufactured in Finland by Ase Utra OY, the jet- $Z^{\mathbb{M}}$  CQB-QM suppressor incorporates Ase Utra's patented jet- $Z^{\mathbb{M}}$  baffle system.

The jet-Z™ CQB-QM is an all-steel, all-welded unit rated for professional use on semiautomatic and select fire weapons. The patented Quick-Mount enables secure attachment to MIL-SPEC A1 and A2 flash-hiders, with absolutely no modification to the standard weapon.

## **Performance**

The jet-Z™ CQB-QM suppressor reduces sound pressure level by 30-32 dB (A). In addition to the reduction in sound signature, the suppressor also reduces recoil and an added benefit is the elimination of visible muzzle flash, especially for military users.

M16 rifles and M4 carbines tested with the jet-Z<sup>™</sup> CQB-QM suppressor comply with the new personal noise exposure limit set by European Directive 2003/10/EC (140 Pa or 137 dB(C)).

Calibre	.223 Rem / 5.56x45 mm NATO
Weight	670 g
Diameter	40 mm
Overall length of suppressor body / Added length to weapon	170 mm / 125 mm
Net sound Suppression (ref. US MIL-STD-1474D)	32 dB(A)
Warranty (semi-automatic and burst fire)	2 years

# AU jet-Z™CQB suppressor



## **Description**

The Ase Utra jet- $Z^{\mathbb{N}}$  CQB suppressor is a lightweight, ultra-compact suppressor for assault rifles. Manufactured in Finland by Ase Utra OY, the jet- $Z^{\mathbb{N}}$  CQB suppressor incorporates Ase Utra's patented jet- $Z^{\mathbb{N}}$  baffle system.

The jet- $Z^{\mathbb{M}}$  CQB is an all-steel, all-welded unit. The jet- $Z^{\mathbb{M}}$  CQB adds only 550 grams net weight and 120 mm net length to a typical rifle – and with a diameter of just 40 mm, the suppressor is slim enough to be used with low-mounted telescopic or iron sights.

The jet-Z™ CQB is available with a variety of internal threads to fit directly onto the rifle barrel. Standard threads include; M14x1, M17x1, M18x1 ½"x20 UNF, ½"x28 UNEF to fit most current centrefire rifles.

### **Performance**

The jet-Z<sup>™</sup> CQB suppressor reduces sound pressure level by 30-32 dB (A). In addition to the reduction in sound signature, the suppressor also reduces recoil and an added benefit is the elimination of visible muzzle flash. Rifles tested with the jet-Z<sup>™</sup> CQB suppressor comply with the new personal noise exposure limit set by European Directive 2003/10/EC (140 Pa or 137 dB(C)).

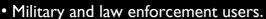
Calibre	.223 Rem / 5.56x45mm NATO
Weight	c. 550 g
Diameter	40 mm
Overall length of suppressor body / Added length to weapon	150 mm / 120 mm
Net sound suppression ( ref. U.S. MIL-STD-1474D )	30-32 db (A)
Warranty	2 years

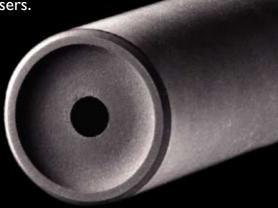


Ase Utra OY is one of the largest manufacturers of sound suppressors in the world. Total suppressor manufacturing exceeds over 10,000 each year.

Since 1994 Ase Utra has developed and manufactured sound suppressors for the needs of

Hunters and sport shooters







The Ase Utra sound suppressors have proven to be extremely durable and reliable products in demanding conditions. In addition to sport shooters and hunters, Ase Utra sound suppressors are in use with law enforcement and military units in several countries.

The patented products are the result of continuous research and development. Quality, in both operation and products, is the foundation of the company!

# AU S series SMG suppressors



# Description

The Ase Utra S series SMG sound suppressors are available for carbines and submachine guns in  $9\times19$  mm Para calibre. Manufactured in Finland by Ase Utra OY, the S series SMG suppressors are manufactured out of 300 series stainless steel and assembled by welding. The S series SMG suppressors have a strong construction and are built to for a long service life.

The small S series S4 SMG suppressor only adds 80 mm to the length of the weapon \*, the diameter being 45 mm. The S4 SMG suppressor is intended for users seeking a small hearing safe suppressor.

The S series S6 SMG suppressor is intended for users who are seeking for a higher suppression level. The S series S6 suppressor adds 125 mm to the length of the weapon \* and the diameter is 45 mm.

The S series SMG suppressors are available with a selection of internal threads and quick mounts to fit on a variety of carbines and submachine guns.

\* Figures for suppressors with an HK MP5 mount (S4 SMG-MP5 and S6 SMG-MP5)

### **Performance**

The S series SMG suppressors reduce the sound pressure level of the weapon by 18-28 dB (dependant on suppressor model and calibre). The S series SMG suppressors also reduce recoil and muzzle flash significantly.

Submachine guns tested with the S series SMG suppressors, comply with the latest personal exposure limit set by the European Directive 2003/10/EC (140 Pa or 137 dB (C)).

Calibres		9x19 mm Para
Weight	S <del>4</del>	530 g
	S6	680 g
Diameter	-	45 mm
Overall length, closed /	S4	125 mm / 80 mm
Added length to weapon ( w/ HK MP5 mount )	S6	165 mm / 125 mm
Net sound suppression ( ref. US MIL-STD-1474D )	S <del>4</del>	18-20 dB (A)
	S6	25-28 dB (A)
Warranty	200	2 years

# Ase Utra rimfire suppressor



# Description

The Ase Utra rimfire suppressor features excellent sound suppression and is intended for both pistol and rifle use. The suppressor is manufactured from steel components and intended for a long service life. The finish on the suppressor is manganese phosphate. The suppressor allows the use of iron sights or low mounted optical sights. The standard thread for the suppressor is 1/2" x 20 UNF. The suppressor can be taken apart for cleaning and maintenance.

### **Performance**

The suppressor reduces the sound pressure level by c. 28-32 dB on a rifle and c. 35-40 dB on a pistol. It should also be noted that the first shot with the Ase Utra suppressor is as quiet as the following ones, so there is no significant "first round pop". The reduced sound pressure level removes the shooters risk of receiving hearing damage and also reduces the environmental noise significantly The Ase Utra rimfire suppressors comply with the latest personal exposure limit set by the European Directive 2003/10/EC (140 Pa or 137 dB (C)).

Calibres	.22LR, .22 WMR and .17 HMR
Weight	280 g
Diameter	28 mm
Overall length / added length	165 mm / 150 mm
Net sound suppression ( ref. US MIL-STD-1474D )	rifle 28-32 dB (A) pistol 35-40 dB (A)
Warranty	2 years

# Why choose an Ase Utra sound suppressor?

### **Benefits**

- · Lowers the sound pressure level below the hearing damage threshold for impulse noise
- · Reduces the environmental noise
- Significantly reduces recoil
- Hides the visible muzzle flash
- · Can be installed on weapons with iron sights
- Does not negatively affect accuracy, but more often improves it
- Is a front mounting suppressor by design and does not prevent the free floating of the barrel and does not prevent barrel cooling, compared to telescopic designs.

# **Technology**

The Ase Utra suppressors utilize advanced technology and quality materials. The suppressors are manufactured out of precision castings and machined using modern CNC-techniques. The Ase Utra suppressor designs are the result of innovative work and thorough research.

Due to the above, Ase Utra suppressors are:

- Very compact in size and have an excellent size to performance ratio
- Light weight
- Durable

# **Product development**

Our research and development is continuous. The newest Ase Utra suppressor family on the market are the S series suppressors. There are several models available in the S series to suit a wide selection of calibres. The S series suppressors are manufactured out of 300 series stainless steel.



# GENERAL INFORMATION ON FIREARM SOUND SUPPRESSION MEASUREMENT

The measuring unit of sound suppressor suppression ability is decibel, dB(1/10th Bell), named after the inventor of the telephone, Alexander Graham Bell), It is a measuring unit which is used to measure sound or sound pressure level(SPL).

According to the definition SPL=20  $\lg (p/p0)$ , p being the measured pressure and p0 being the pressure level of the human hearing range threshold,  $20\mu Pa$ . From this definition we can deduce that the hearing threshold is 0 db. Normal conversation is 56 dB, a lawnmover 85 dB, a jet plane 135 dB. Firearm discharge sound is peak impulse noise where the highest peak is usually measured.

The threshold for hearing damage for peak impulse noise is c. 140 dB. In front of a artillery piece the SPL is over 185 dB which can lead into death when the lung cells are ruptured, not to mention hearing damage. The SPL for an 5.56 mm calibre M4 carbine is approximately 165 dB, when measured 1 meter left of the muzzle.

When measuring SPL, several filters are used to remove for example the parts deemed unnecessary. The most common filters are the A-filter which strives to describe the characteristics of human hearing and where the low (under 20Hz), inaudible to human hearing sounds are suppressed and the C-filter, where the filtering of the lower sounds is lesser. There is not a very large variable between A or C-filters when measuring gunshot noise.

The major problem in measuring sound suppressor suppression abilities is that the whole range of measuring instruments have to be suitable, must to have fast enough risetime, according to the American MIL-STD-1474D it has to be under 20µs, to be able to react to a suppressed firearm shot, which has been established to be shorter in duration compared to an unsuppressed shot.

The measurements themselves are taken with the microphone I meter side from the muzzle of the weapon and at a height of 1.6 meters, directed 90 degrees upward to the trajectory of the bullet.

Without the suppressor, a sufficient statistical certainty is usually accomplished with five shots, with the suppressor attached an average of ten shots and additionally taking notice what is the SPL of the first shot, if there is any First Round Pop (FRP). This FRP is the result of the expanding gases and the oxygen inside of the suppressor converging.

It is typical for SPL measurements that the environment characteristics have an effect in the results so the measurements should be taken in an open land area without reflecting surfaces.

The best comparable results are achieved when the measurements of different suppressors are made at the same event or at least according to the standard procedure; if a manufacturer does not specify their measurement types or their instruments, one should be cautious about the results.



# Technical data on Ase Utra sound suppressors

www.aseutra.fi

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S series S7	S series S7	S series S6 SMG	S series S5	S series S4 SMG	jet-Z™ COMPACT	jet-Z™ CQB-QM	jet-Z™ CQB	AU rimfire suppressor	Suppressor
166 mm	166 mm	165 mm	122 mm	125 mm	180 mm	c. 170 mm	150 mm	165 mm	Overall length of suppressor body
45 mm	45 mm	45 mm	45 mm	45 mm	40 mm	40 mm	40 mm	28 mm	ø Diameter
156 mm	156 mm	I 20 mm	I I2 mm	80 mm	150 mm	c. 125 mm	120 mm	150 mm	Added length to weapon
780 g	780 g	680 g	580 g	530 g	550-570 g	660 g	550 g	280 g	Weight
32+	30-35	25-28	24-27	18-20	28-32	30-32	30-32	Rifle. 28-30 Pistol. 35-40	Net sound suppression dB (A) U.S. MIL-STD 1474
.338 Lapua Magnum	.308 Win	9x19 mm Para	.308 Win	9x19 mm Para	.308 Win	5.56x45 mm NATO	5.56x45 mm NATO	.22 LR(sub sonic)	Measured calibre