



SOUND SUPPRESSORS

MILITARY & LAW ENFORCEMENT



ASE UTRA

SOUND SUPPRESSORS
PROFESSIONALLY MADE IN FINLAND



Ase Utra Oy is one of the world's largest manufacturers of sound suppressors. We have been manufacturing sound suppressors for hunting, sports and professional use since 1994.

Ase Utra sound suppressors are extremely durable and reliable. Our suppressors are used widely by hunters as well as law enforcement and the military in various countries and in challenging conditions. Our product's popularity is based on its high quality due to uncompromising and ongoing product development work.



EFFECTIVE ACCURATE COMPACT DURABLE

The suppressors' excellent features and high quality are based on innovative suppressor design, advanced manufacturing methods and quality materials. The Ase Utra **S series SL** and **jet-Z** suppressors are made from precision cast components that are machined for assembly using CNC technology. The suppressor structure is not based on a separate outer tube, but the bodies are comprised of suppressor elements.

Thanks to the design solutions born out of long-term product development on the suppressor elements, Ase Utra suppressors are not only effective but also very compact. The completely welded structure ensures that the suppressor is durable and has a long service life.

All our products are subjected to rigorous testing during the product development phase in order to ensure that the suppressors function in all applications. Quality control and product inspections ensure that your suppressor is safe and reliable in all conditions.

Our product range covers calibres from the .22LR small-bore rifle to a .50 BMG calibre.





BoreLock FAST-ATTACH SYSTEM

The BoreLock fast-attach mounting system is our newest generation of fast-attach mounts.

The BoreLock mount provides an easy to operate and secure attachment to many of the common weapon models available. BoreLock mounting suppressors are available from 5.56 mm NATO up to .338 LM calibre.

Suppressors equipped with the BoreLock mount are designated by the letters "BL".



A 4-POSITION
ADJUSTABLE
MOUNT ALLOWS FOR
A SECURE FIT.

BoreLock HiPer flash hider

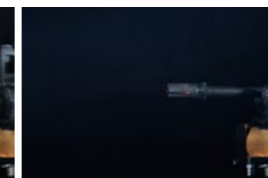


4-prong design provides excellent visual signature reduction.

The tapered alignment surface before the attachment thread effectively blocks fouling from entering the mounting surfaces and allows for ease of attachment and removal.



Muzzle flash with an A1 bird cage flash hider, M4 carbine with 14.5" barrel



Muzzle flash with an Ase Ultra HiPer flash hider, M4 carbine with 14.5" barrel.

BoreLock .30/.338 cal muzzle brake



Universal bore size for calibres from .30 up to .338.

The two-part design of the BoreLock muzzle brake provides for secure, simple, and quick installation. No washers or shims required, thus allowing for truer alignment.

BoreLock mounting collar



The primary purpose of the BoreLock mounting collar is to enable the user to continue using a flash hider or a muzzle brake that is already on the weapon.

To be compatible with the BoreLock mounting collar and suppressors, the muzzle device needs to be under 22 mm in diameter and have a maximum length of 63 mm.



jet-Z™ / CQB-BL CQBS-BL

Lightweight, ultra-compact assault rifle suppressors designed for use on 5.56 NATO assault rifles.

Fully welded, sealed construction that utilizes the patented jet-Z baffle design. Due to the updated design, the new models are lighter and even more robust!



min. 550 g

min. 175 mm



min. 465 g

min. 145 mm

	CALIBRE	WEIGHT (g) *	OVERALL LENGTH / ADDED LENGTH (mm) *	DIAMETER (mm)	NET SOUND SUPPRESSION (dB) **	MATERIAL	FINISH
jet-Z™ CQB-BL	5.56 mm NATO	550-555	175 / 115	40	22-31 (1 m left of the muzzle) 15-27 (shooters ear)	Carbon steel	Manganese phosphate
jet-Z™ CQBS-BL	5.56 mm NATO	465-470	145 / 85	40	24-28 (1 m left of the muzzle) 15-27 (shooters ear)	Carbon steel	Manganese phosphate

* Over HiPer flash hider

** Suppressed sound pressure level with most 5.56 mm calibre assault rifles: Right handed shooter, Left ear c. 131-135 dB, right ear c. 137-144 dB (unsuppressed level c. 158-162 dB) 1 metre left of the muzzle, 134-143 dB (unsuppressed level c. 165-167 dB)



jet-Z™ CQB-BL MINIMI

Lightweight and compact suppressor designed for use on 5.56 mm NATO calibre Minimi and Para Minimi light machine guns.

The suppressor mounts use the BoreLock flash hider without any permanent modifications to the weapon.

NSN codes available.



670 g

170 mm

	CALIBRE	WEIGHT (g) *	OVERALL LENGTH / ADDED LENGTH (mm) *	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
jet-Z™ CQB-BL MINIMI	5.56 mm NATO	670	170 / 115	40	25-27 (1 m left of the muzzle) 21-22 (shooters ear)	Carbon steel	Manganese phosphate

* Over HiPer flash hider



203 mm

565 g



jet-Z™ COMPACT-BL

Lightweight and compact rifle suppressor designed for use on 7.62 NATO assault and sniper rifles.

Due to the updated design, the new model is lighter and has better flash suppression performance, especially on barrel lengths of 16" and shorter.

Various BoreLock flash hider mounts are available in order to adapt the suppressors to various rifle types.

	CALIBRE	WEIGHT (g) *	OVERALL LENGTH / ADDED LENGTH (mm) *	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
jet-Z™ COMPACT-BL	7.62 mm	565	203 / 143	40	15-28 (1 m left of the muzzle) 12-21 (shooters ear)	Carbon steel	Manganese phosphate

* Over HiPer flash hider



min. 176 mm

min. 600 g



S Series SL7-BL

Compact, stainless steel suppressors designed for use on sniper rifles from .308 Win up to .338 Lapua Mag.

Excellent sound and flash suppression performance.

The suppressor mounts using the two-part BoreLock muzzle brake. The two-part design of the muzzle brake makes the initial installation secure, quick, and simple.

	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
S SERIES	.30	585	176-181 / 131	45	.308 Win, 31-33 (1 m left of the muzzle)	300 series stainless steel	Blasted stainless finish or CeraKote coating
SL7-BL	.338	650			.308 Win, 27-30 (shooters ear) .338 LM, 25+ (1 m left of the muzzle) .338 LM, 34+ (shooters ear)		



S Series / SL4-SMG MP5 SL6-SMG MP5

Ultra-compact and lightweight 9 mm suppressors for the MP5 submachine gun.

A 3-lug mounting system to attach the suppressors to the standard MP5 barrels.

	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
SL4-SMG	9x19mm	410	109 / 75	45	13–16 (1 m left of the muzzle) 13–15 (shooters ear)	300 series stainless steel	Blasted stainless finish or CeraKote coating
SL6-SMG	9x19mm	530	153 / 120	45	22–25 (1 m left of the muzzle) 16–22 (shooters ear)	300 series stainless steel	Blasted stainless finish or CeraKote coating



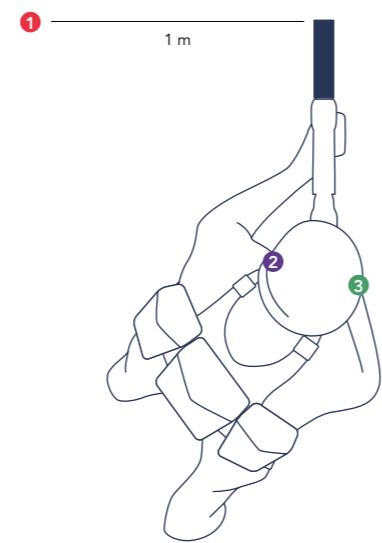
SL4-SMG 410 g
SL6-SMG 530 g

Typical unsuppressed and suppressed sound pressure levels

The below values have been tested with equipment that is suitable for firearm impulse noise measurement.

Shots have been fired in an open area with a distance of at least 10 meters from reflective surfaces.

It should be noted that there are many variables that may affect the results on any given day, such as the shooter's surroundings, atmospheric conditions, calibre, weapon operating mechanism type, barrel length, ammunition type, etc.



WEAPON	SUPPRESSOR	1 1 M LEFT OF THE MUZZLE (dB A PEAK)	2 SHOOTERS LEFT EAR, SHOOTING FROM RIGHT SHOULDER (dB A PEAK)	3 SHOOTERS RIGHT EAR, SHOOTING FROM RIGHT SHOULDER (dB A PEAK)
HK G36C 5.56 mm NATO	Unsuppressed jet-Z CQB-BL jet-Z CQBS-BL	165–167 144–145 147–149	160–162 142–143 142–143	159–161 138–139 138–139
HK416 5.56 mm with 10" barrel	Unsuppressed jet-Z CQB-BL jet-Z CQBS-BL	166–168 135–137 141–142	157–159 132–134 134–136	158–159 139–141 139–141
M4 carbine 5.56 mm NATO with 14.5" barrel	Unsuppressed jet-Z CQB-BL jet-Z CQBS-BL	164–166 134–136 137–138	155–157 131–135 133–137	156–157 139–142 139–142
FN Para Minimi 5.56 mm NATO	Unsuppressed jet-Z CQB-BL Minimi	166–167 141–142	158–161 139–141	158–161 139–141
HK417 7.62mm NATO with 16" barrel	Unsuppressed jet-Z COMPACT-BL	166–167 146–148	157–159 141–143	157–159 141–143
Sako TRG-22 .308 Win with 20" barrel	Unsuppressed S Series SL7.BL .30	165–167 137–138	157–160 131–133	
Sako TRG-42 .338 Lapua Mag with 570–690 mm barrel	Unsuppressed (with muzzle brake) S series SL7-BL .338	170+ 145–150	170+ 136–139	

GENERAL INFORMATION ON FIREARM SOUND SUPPRESSION MEASUREMENT



The measuring unit of a sound suppressor's suppression ability is the 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, $SPL=20 \lg(p/p_0)$, with p being the measured pressure and p_0 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 lawnmower 85 dB, and a jet plane 135 dB. Firearm discharge sound is the peak impulse noise, where the highest peak is usually measured.

The threshold for hearing damage for peak impulse noise is ca. 140 dB. The SPL for a 5.56-mm calibre M4 carbine is approximately 165–167 dB, when measured 1 meter left of the muzzle.

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

The measurements themselves are taken with the microphone 1 meter to the side of the weapon's muzzle and at a height of 1.6 meters, directed 90 degrees upward to the trajectory of the bullet. Ase Ultra also tests at the shooter's left and right ear.

Without the suppressor, sufficient statistical certainty is usually accomplished with five shots, with the suppressor attached an average of ten shots, and additionally taking notice of 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 the suppressor converging.

It is typical of SPL measurements that the environmental characteristics have an effect on 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, then one should be cautious about the results.

Thread mounting suppressors

S Series SL5

S Series SL7

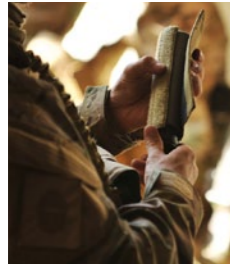
jet-Z™ COMPACT

DUAL-FIFTY

Ase Utra also has thread-mounting suppressors available, for those seeking a more lightweight, compact, and cost-effective suppressor model.

Models suitable for military and law enforcement use in .223 up to .338 LM calibres include, for example, the S series SL5, SL7 and jet-Z COMPACT.

For the .50 BMG calibre, the DUAL-Fifty model is available.



The various suppressor models of Ase Utra can be equipped with heat covers. The covers are manufactured from very durable 1000D CORDURA® and Nomex® fabrics. The covers effectively reduce and delay the effect of the mirage from the suppressor. They also assist in removing a hot suppressor from the barrel.



S Series SL5

S Series SL7

jet-Z™
COMPACT

DUAL-FIFTY

	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
S Series SL5	Three calibre sizes available: .223, .25 and .30	390-410	116-124 / 98	44,5	25-26 (1 m left of the muzzle, .308 Win) 22-24 (shooters ear, .308 Win)	300 series stainless steel	Blasted stainless finish or CeraKote coating
S Series SL7	Two calibre sizes available: .30 and .338	530-610	159-171 / 144	45	30-33 (1 m left of the muzzle, .308 Win) 26-28 (shooters ear, .308 Win)	300 series stainless steel	Blasted stainless finish or CeraKote coating
jet-Z™ COMPACT	Two calibre sizes available: .25 and .30	490-515	177-185 / 155	40	28-32 (1 m left of the muzzle, .308 Win) 25-27 (shooters ear, .308 Win)	Carbon steel	Manganese phosphate
DUAL-FIFTY	.50 BMG	2100-2200	255-275 / 235	76	28+ (shooters ear)	Carbon steel	Manganese phosphate

SUPPRESSOR



www.aseutra.fi

Why choose an ASE UTRA SUPPRESSOR?

REDUCE THE RISK OF TEMPORARY OR PERMANENT HEARING LOSS

SIGNIFICANTLY REDUCE THE VISIBLE MUZZLE FLASH AND DUST SIGNATURE

ALLOW BETTER COMMUNICATION BETWEEN TEAM OR SQUAD MEMBERS

REDUCE RECOIL, ENABLING FASTER FOLLOW UP SHOTS

REDUCE THE ENVIRONMENTAL NOISE, ALLOWING TRAINING FACILITIES OR SHOOTING RANGES TO COMPLY BETTER WITH NOISE LIMITS

A CORRECTLY MANUFACTURED AND MOUNTED SUPPRESSOR WILL NOT NEGATIVELY AFFECT ACCURACY AND A MORE COMMON RESULT IS IMPROVED ACCURACY

Ase Utra sound suppressors have a two-year warranty that covers any manufacturing faults. Ase Utra suppressors are delivered complete with instructions on maintenance and practical tips on using suppressors.

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