



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.



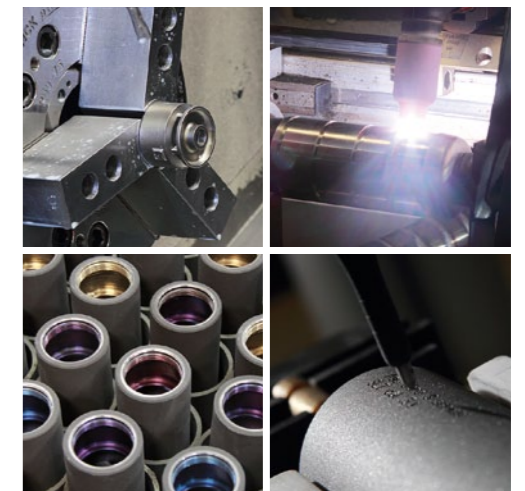
EFFECTIVE ACCURATE COMPACT DURABLE

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.



S Series / SL5 SL6 SL7



S Series SL5 is the smallest suppressor on the market, which yields a sound level of less than 140 dB at the shooter's ear with a .308 Win calibre weapon. SL5 is well suited for hunting and shooting on the range. The **SL6** series suppressors are designed for heavy-duty hunting rifles.

For those who are looking for more performance, our range can offer the **S series SL7** suppressor that offers more suppression in only a slightly larger size. It is a good choice if you are looking for maximum suppression for the .308 Win calibre, for example. S series suppressors come in a large selection of threads, which ensures that the suppressor will suit barrels of various sizes.

Thanks to continual product development, the S Series SL5, SL6 and SL7 series suppressors are lighter than their

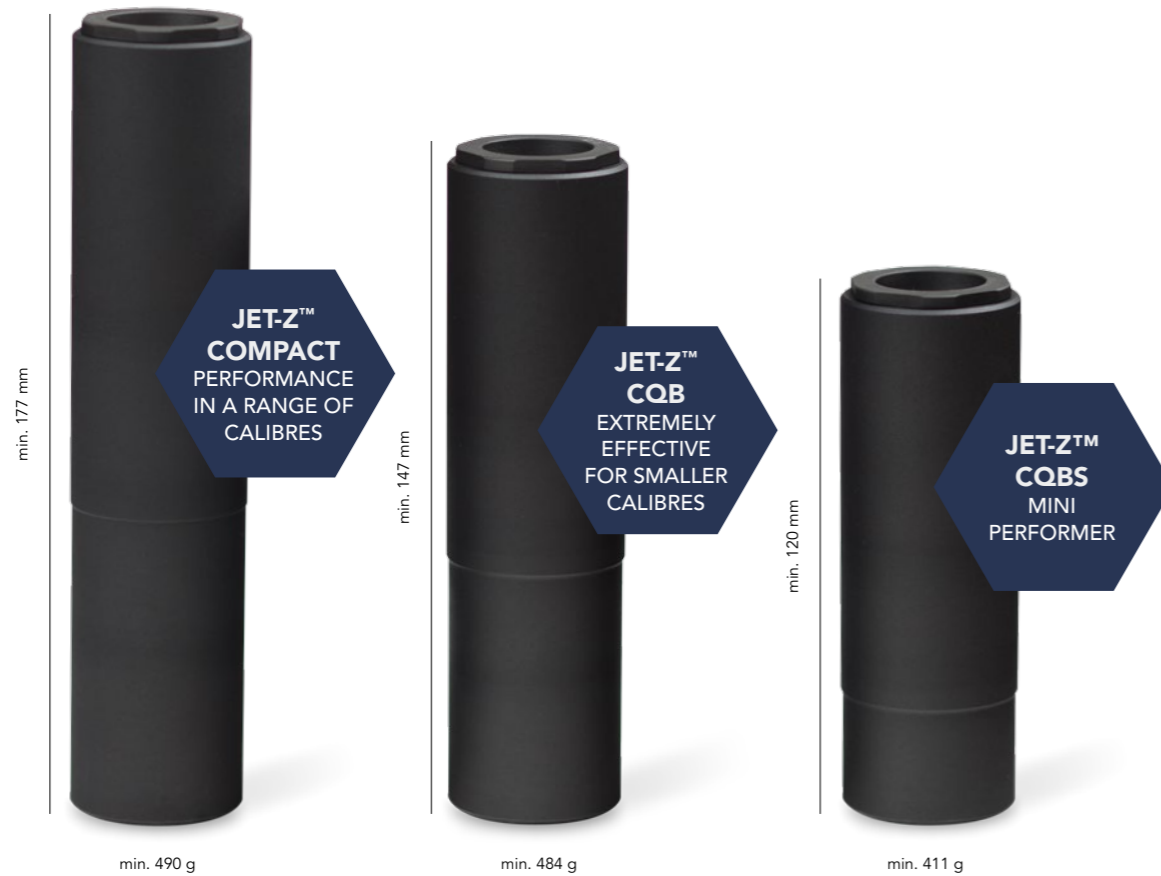
predecessors, but just as effective. They are assembled from precision cast components made of 300 series stainless steel by welding. The surface of the suppressors is either blasted stainless steel or extremely durable CeraKote.



The various suppressor models of Ase Ultra can be equipped with heat covers. The covers are manufactured from 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.

	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
SL5	Three calibre sizes available: .223, .25 and .30	390-410	116-124 / 98	44,5	22-25 (1 m left of the muzzle, .308 Win) 22-24 (shooters ear, .308 Win)	300 series stainless steel	Blasted stainless finish or CeraKote coating
SL6	Two calibre sizes available: .338/9.3 and .375	535-545	138-151 / 123	45	18-22 (1 m left of the muzzle, .9.3x62) 21-22 (shooters ear, .9.3x62)	300 series stainless steel	Blasted stainless finish or CeraKote coating
SL7	Two calibre sizes available: .30 and .338/9.3	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 CQB CQBS



jet-Z™ COMPACT is an efficient and modern suppressor designed for centrefire rifles. It comes in calibres from .243 Win to .30-06 Spr. A vast selection of threads ensures that the suppressor is suited to both light and heavy / target barrels.

jet-Z™ CQB and **CQBS** are small but effective suppressors. They are designed for small centrefire calibres, such as .222 Rem, .223 Rem and .22-250 Rem. jet-Z™ CQB and CQBS are also suited for hunting and sport shooting.

The jet-Z™ suppressor models use the jet-Z™ suppressor element patented by Ase Utra. This element allows for highly efficient suppression in a small size. The suppressors are all-steel and manufactured by welding. They are designed for long service life. With a diameter of just 40 mm, the suppressor is slim enough to be used with low mounted telescopic or iron sights. The suppressor finish is manganese phosphate.



	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
jet-Z™ COMPACT	jet-Z COMPACT .25: .243 Win, 6.5x55 etc. (max. bullet diameter 6.7 mm) jet-Z COMPACT .30: all .30 non-magnum calibres	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
jet-Z™ CQB	All .22 centrefire calibres	484-505	147-156 / 125	40	28-32 (1 m left of the muzzle, .222 Rem) 27-30 (shooters ear, .222 Rem)	Carbon steel	Manganese phosphate
jet-Z™ CQBS	All .22 centrefire calibres	411-432	120-128 / 96	40	23-25 (1 m left of the muzzle, .222 Rem) 24-25 (shooters ear, .222 Rem)	Carbon steel	Manganese phosphate

AFFORDABLE
AND DURABLE



198 mm

min. 660 g

NorthStar NS-3B

The NorthStar NS-3B suppressor is an affordable and durable suppressor for hunting and sports shooting. It is designed for rifle calibres between .222 Rem and .9.3x66. The suppressor is manufactured out of carbon steel and it is assembled by welding. The suppressor finish is manganese phosphate.

The NorthStar NS-3B suppressor reduces the rifle's sound pressure level by 25–26 dB (.308 Win). Measured at the shooter's ear, the sound pressure level decreases to 132–135 dB, which is clearly below 140 dB that is generally considered the personal impulse noise exposure limit.

	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
NorthStar NS-3B	Northstar NS-3B .25: .222-6.5x55 SE (max bullet diameter 6.7 mm) Northstar NS-3B .30: all .30 non-magnum calibres Northstar NS-3B 9.3: .338 Win Mag, 9.3x62, 9.3x66	660–700	198 / 100	47,5	25–26 (1 m left of the muzzle, .308 Win) 22–24 (shooters ear, .308 Win) 22–24 (1 m left of the muzzle, 9.3x62) 22–23 (shooters ear, 9.3x62)	Carbon steel	Manganese phosphate



FOR SMALL-
BORE RIFLES
AND PISTOLS

DUAL RIMFIRE

The highly efficient DUAL is optimised for small-bore rifles and pistols. It is designed for calibres .22 LR, .22 WMR and .17 HMR.

The suppressor allows for the use of low mounted telescopic or iron sights. The all-steel DUAL can be dismantled for maintenance. The first shot using the suppressor is just as silent as the next shots, which means there is no first round pop.

.50 BMG

DUAL-FIFTY

The DUAL-Fifty is designed for .50 BMG calibre sniper rifles. The suppressor has a so-called dual structure that leaves room for gas expansion between the suppressor element and the outer shell. The suppressor structure is a completely welded, closed unit.

The suppressor is manganese phosphated. The suppressors come in various threads, which makes them compatible with the most common .50 BMG calibre firearms.

MP5 CARBINES
AND SUBMA-
CHINE GUNS

S-Series SL4-SMG MP5 SL6-SMG MP5

The SL4-SMG and SL6-SMG suppressors are intended for MP5 submachine guns and carbines. The suppressors quick mount to the barrel lugs.

The SL4-SMG suppressor is very compact, whereas the SL6-SMG has more suppression performance in a slightly larger size.

	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
DUAL	.22LR, .22WMR, .17HMR	280	172 / 158	28	24–28 (1 m left of the muzzle, .22 LR rifle) 35–40 (1 m left of the muzzle, .22 LR pistol)	Carbon steel	Manganese phosphate
DUAL 50	.50 BMG	2100–2200	255–275 / 235	76	28+ (shooters ear)	Carbon steel	Manganese phosphate
SL4-SMG	9x 19mm	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	9x 19mm	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

BoreLock mounted suppressors

jet-Z™ COMPACT-BL jet-Z™ CQB-BL jet-Z™ CQBS-BL S-Series SL7-BL

The jet-Z™ CQB-BL and CQBS-BL suppressors are intended for .223 / 5.56 mm NATO calibre semiautomatic and assault rifles. The CQBS-BL is smaller and lighter, whereas the CQB-BL has maximum performance, especially when it comes to muzzle flash.

The jet-Z™ COMPACT-BL suppressor, an excellent suppressor for sound suppression and muzzle flash, is intended for .308/7.62 mm semiautomatic/assault rifles.

The S series SL7-BL suppressor offers top performance in two calibre sizes, .30 and .338.

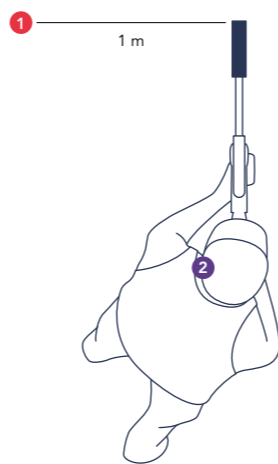


	CALIBRE	WEIGHT (g)	OVERALL LENGTH / ADDED LENGTH (mm)	DIAMETER (mm)	NET SOUND SUPPRESSION (dB)	MATERIAL	FINISH
jet-Z™ COMPACT-BL	.308 Win / 7.62 NATO	565	203 / 143	40	19–28 (1 m left of the muzzle) 15–22 (shooters ear)	Carbon steel	Manganese phosphate
jet-Z™ CQB-BL	.223 Rem / 5.56x45 mm NATO	550–555	175 / 115–130 (depending on flash hider)	40	25–31 (1 m left of the muzzle) 15–27 (shooters ear) *	Carbon steel	Manganese phosphate
jet-Z™ CQBS-BL	.223 Rem / 5.56x45 mm NATO	465–470	145 / 85–100 (depending on flash hider)	40	24–28 (1 m left of the muzzle) 15–27 (shooters ear) *	Carbon steel	Manganese phosphate
SL7-BL	S series SL7-BL .30: all .30 calibres S series SL7-BL .338: .338 Win Mag, .338 Lapua Mag	585 650	176–181 / 131	45	31–33 (1 m of the muzzle .308 Win) 27–30 (shooters ear .308 Win) 25+ (1 m of the muzzle, .338 Lapua Mag) 34+ (shooters ear, .338 Lapua Mag)	Carbon steel	Blasted stainless finish or CeraKote coating

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

Typical sound pressure levels

The sound pressure levels given on this page are tested on measurement equipment especially intended for measuring gunshot impulse noise. The shots have been fired in open terrain, over 10 metres away from any reflective surfaces. Please note that sound pressure levels are affected by many factors, such as the environment, weather conditions, calibre, barrel length, and cartridge.



The B&K 2209 sound pressure level meter used by our company is designed for reliable measurement of impulse noise.

CALIBRE	SUPPRESSOR	1 SOUND PRESSURE LEVEL, 1 M LEFT OF THE MUZZLE (DB A PEAK)	2 SOUND PRESSURE LEVEL, SHOOTERS EAR (DB A PEAK)
.22 LR 560 mm barrel (Sub sonic ammunition)	Unsuppressed DUAL .22	136–140 110–114	130–132 108–110
.22 LR 120 m pistol barrel (Sub sonic ammunition)	Unsuppressed DUAL .22	153–157 117–122	145–148 118–120
.222 Rem 508 mm barrel	Unsuppressed S series SL5 .223 jet-Z CQB jet-Z CQBS	162–164 133–135 133–135 138–140	154–156 127–129 127–129 128–132
6.5x55 SE 508 mm barrel	Unsuppressed S series SL5 .25 jet-Z COMPACT .25	166–167 140–142 135–137	157–159 133–135 128–130
.308 Win 508 mm barrel	Unsuppressed S series SL5 .30 S series SL7 .30 jet-Z COMPACT .30	165–167 142–144 136–138 137–139	158–160 135–137 131–133 131–133
570 mm barrel	S series SL5 .30	139–132	132–135
.300 Win Mag 500 mm barrel	Unsuppressed S series SL7 .30	167–169 139–141	159–162 134–136
9,3x62 508 mm barrel	Unsuppressed S series SL6 9.3 NorthStar NS-3B	166–168 148–150 145–146	159–161 138–140 137–139
.338 Lapua Mag 570–690 mm barrel	Unsuppressed S series SL7 .338 S series SL7-BL .338	170+ 146–150 146–150	170+ 136–139 136–139

GENERAL INFORMATION ON MEASURING FIREARM SOUND SUPPRESSION

The measurement unit for suppressors' suppression ability is dB, decibel (i.e. 1/10 Bells; the unit was named after the inventor of the telephone, Alexander Graham Bell). This is a unit used to measure sound, i.e. the Sound Pressure Level, SPL.

According to the definition, SPL = 20 lg (p / p0), where p is the measured pressure and p0 the pressure level 20 mPa corresponding to the human limit of audibility. Thus, the human limit of audibility corresponds to 0 dB. The SPL of normal conversation is approximately 56, that of a lawn mower is 85, and that of a jet plane is 130 dB. Noise from shots is peak-like impulse noise, which usually means that the highest peak value is measured.

The SPL for a .308 calibre hunting rifle is approximately 165–167 dB (A) peak one metre to the side from the muzzle and at the shooter's ear, the SPL is approximately 158–160 dB (A) peak.

When assessing the performance of suppressors, the biggest challenge is that the entire set of measurement equipment must be suitable and quick enough in terms of reaction time, less than 20 ms according to the American MIL-STD-1474D standard, in order to be able to react to the suppressed sound of the shot, which has been found to be shorter in duration than that of unsuppressed shots.

The noise measurement is taken when the microphone is placed at a one metre distance to the side from the muzzle of the suppressor, at a height of 1.6 m from the ground and directed upwards at a 90-degree angle to the trajectory of the bullet.

Ase Ultra also performs tests for the left and/or right ear of the shooter. The measurement method is peak level measurement with an A filter which yields results in the unit dB(A)peak.

Without a suppressor, sufficient statistical reliability is usually achieved with five shots, whereas with a suppressor, the average value of ten shots is required, and you must pay special attention to the SPL of the first shot, i.e. determine if the so-called First Round Pop (FRP) phenomenon is present.

First Round Pop (FRP) is caused by the combustion of gunpowder gases and the oxygen within the suppressor. This selective method of measuring SPL comparison values enables us to compare various suppressors to each other; often times, though, it is the case that suppressor manufacturers "hunt" for the measurement point that yields the best results and use it in their marketing, which means that these results do not enable any kind of comparison.

Typically, the surrounding conditions affect the SPL measurement results, which means that measurements should be taken in an open field with no reflective surfaces near by. The best comparable results are gained when the various suppressors are measured together at the same time or at least according to the same procedure; if the manufacturer does not specify their measurement methods and equipment, their results should be viewed with a critical eye.

Barrel threads

If the firearm does not have a muzzle thread, we suggest the following options that cover most rifles;

Light-barrelled firearms .30 and smaller calibres:

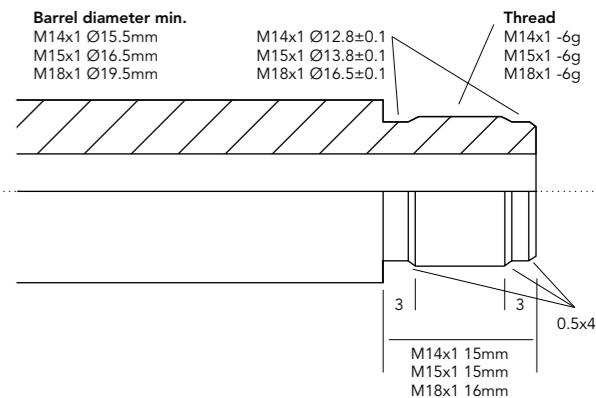
M14x1 Sako / no spigot

Light-barrelled firearms 9.3, .338 Win Mag and other similar calibres:

M15x1 Sako / no spigot

Heavy-barrelled and shooting range type firearms in all calibres:

M18x1 Sako / no spigot



Ase Ultra also offers a wide range of standard threads to cover threaded firearms and the differences in gun manufacturer thread options.

Calibres

CALIBRE	NORTHSTAR			S SERIES							JET-Z					
	NS-3B .25	NS-3B .30	NS-3B 9.3	SL5 .223	SL5 .25	SL5 .30	SL6 .338/9.3	SL6 .375	SL7 .30	SL7 .338	CQB	CQBS	CQB-BL	CQBS-BL	Compact .25	Compact .30
204 Ruger	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
222 Rem	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
223 Rem	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
22-250 Rem	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
243 Win	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
260 Rem	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7MM-08 Rem	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
308 Win	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
338 Federal	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
25-06 Rem	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6.5X55 SE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
270 Win	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7X64	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
30-06 Sprg	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9.3X62	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9.3X66 SAKO	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7 mm Rem Mag	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
300 Win Mag	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
338 Win Mag	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
.338 Lapua Mag	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
.375 H&H Mag	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

CALIBRE	DUAL small-bore rifle/-pistol suppressor
.17 Mach 2	●
.22 LR	●
.17 HMR	●
.22 WMR	●

● **Recommendation**
 ● **Can be used**, but the bullet channel is oversized compared to the calibre, possibly affecting suppressor performance. The suppressor may also be too short when compared to the power of the calibre.
 ● **Can be used**, but the difference between the suppressor bullet channel and calibre is quite significant and clearly affects the suppressor performance.
 ● **Do not use**

BoreLock FAST-ATTACH SYSTEM

BoreLock is Ase Utra's newest generation fast-attach system. The BoreLock mount is a secure and easy-to-use way of securing the suppressor to the firearm. The BoreLock mount ensures that the suppressor will not loosen during shooting. The 4-position quick adjustment of the BoreLock mount ensures that the suppressor is always locked in the right tightness. BoreLock-mounted suppressor models attach to BoreLock mounting collars, flash hiders, and muzzle brakes manufactured by Ase Utra.

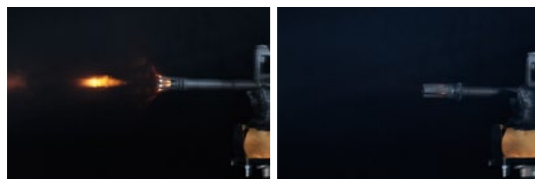


BoreLock HiPer and bird cage flash hiders



The HiPer flash hider is an extremely efficient flash hider. The tapered alignment surface before the attachment thread effectively blocks fouling from entering the mounting surfaces and allows for ease of attachment and removal. HiPer flash hiders are available to a variety of weapon types, from .223 Rem up to .30 calibre.

For those seeking a more traditional flash hider solution, we also have a BoreLock bird cage flash hider available in the same calibres.



Standard A1 type bird cage flash hider, M4-type carbine with a 14.5" barrel.

Ase Utra HiPer flash hider, M4-type carbine with a 14.5" barrel.

BoreLock .30 / .338 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 mount 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.

SUPPRESSOR



www.aseutra.fi

Why choose an ASE UTRA SUPPRESSOR?

OUR SUPPRESSORS SIGNIFICANTLY REDUCE THE RISK OF TEMPORARY OR PERMANENT HEARING LOSS

OUR SUPPRESSORS REDUCE ENVIRONMENTAL NOISE

OUR SUPPRESSORS SIGNIFICANTLY REDUCE RECOIL

OUR SUPPRESSORS ELIMINATE THE MUZZLE FLASH VISIBLE IN THE DARK

OUR SUPPRESSORS ARE ALSO COMPATIBLE WITH WEAPONS WITH IRON SIGHTS

OUR SUPPRESSORS OFTEN IMPROVE FIRING 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.

Ase Utra Oy
Rahkeentie 6
FI-80100 Joensuu, Finland

Tel. +358 10 423 8810
Fax +358 13 227 347
contact@aseutra.fi