

# Sordin Classic™

THE ORIGINAL



**SORDIN**



# Timeless quality

Trends come and go. But quality never goes out of style. Some products don't need hotting up, they were simply great from the beginning.

Sordin Classic builds on a genuine commitment to deliver timeless quality. Our mission was simple and straight-forward: to ensure workers' safety with focus on the technical details and the comfort necessary for users to wear their hearing protector all day.

Originally designed in the 1980s, the Sordin Classic design philosophy remains the same to this day. With its rugged no-frills design, Sordin Classic was built to last – even in the most demanding industrial environment.

Harmful noise is a common occupational hazard, despite workers' safety programs implemented in most countries worldwide. One explanation may be the "invisible nature" of hearing loss – "what we can't see doesn't exist."

We must stop turning a deaf ear to hearing loss. According to WHO, unaddressed hearing loss is the third largest cause of years lived with disability. An estimated US\$ 1 trillion is lost each year due to our collective failure to adequately address hearing loss.

The responsibility to prevent hearing loss rests heavily on employers. At Sordin, we know hearing protection and can help your organization shift to the protective side. A tradition encapsulated in a hearing protector whose name says it all: Sordin Classic.



## Made in Sweden

Sordin Classic builds on genuine Swedish craftsmanship. Originally designed in the 1980s, the brand carries a long history of ensuring workers' safety. To this day, Sordin Classic is manufactured by Sordin in Sweden, a country famous for its strong engineering tradition – paired with innovation and quality excellence.

## Certified quality

Sordin Classic has a truly global footprint and is widely used for both professional and recreational purposes. All hearing protectors are tested and certified according to EN and ANSI, making them approved for professional use in most markets worldwide.



# Passive hearing protection – an active safety measure

While both sound and hearing are complex sciences, the essence of both can be easily summarized: Use hearing protection!

It takes surprisingly little noise to cause hearing loss. What many don't know, or think about, is that all hearing loss is permanent. So, be careful and wear a hearing protector even if you're at the lower end of, or even slightly below, the risk exposure level! Especially when it's so easy and straight-forward to avoid life-long hearing loss.

First, choose between a passive or electronic hearing protector. Sordin Classic is passive, which means that it uses mechanical noise suppression only. In contrast, electronic hearing protectors combine mechanical suppression with some type of digital audio suppression technology.

Passive hearing protection is fully adequate for many purposes. Unless you want to be able to listen to music, hear ambient sound or communicate electronically, you are generally well off with a high-quality, cost-efficient passive hearing protector like Sordin Classic.

## Some useful facts

### Passive vs. electronic

Sordin Classic is a passive hearing protector, which means that it uses mechanical noise suppression technology only. In contrast, electronic hearing protectors use various electronic functions such as algorithms for compressing loud sound peaks to complement noise protection and may also include additional features such as FM radio and communications functionality.

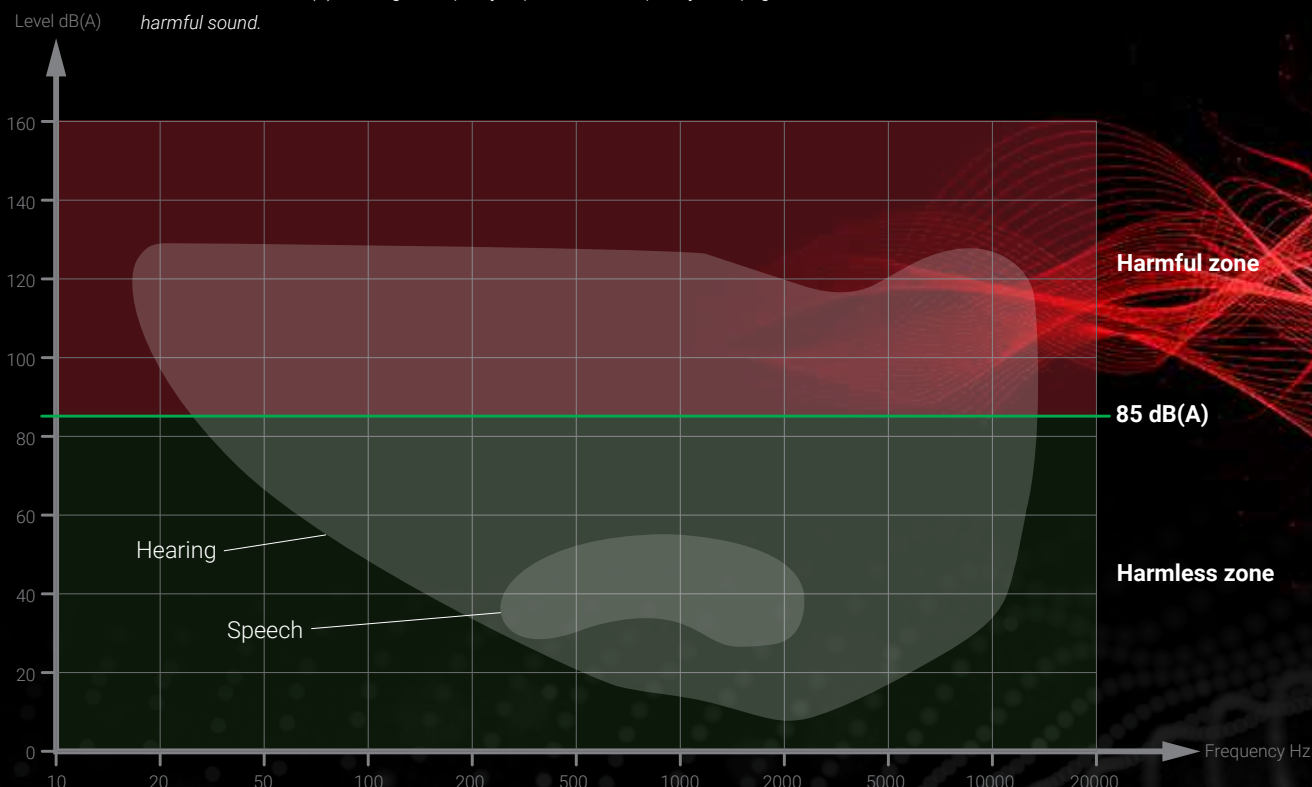
### dB vs. dB(A)

Decibel (dB) is the general measure of sound level, or loudness. There are, however, numerous variants and in this brochure, we address dB and dB(A). In simplified terms, dB is the intrinsic loudness of a sound source, while dB(A) is the loudness subjected to a person's hearing when exposed to noise. Hence dB(A) depends on factors such as the distance to the source and whether you're wearing a hearing protector or not.

### Harmless vs. harmful noise

There is no clear dB(A) limit where noise becomes harmful. Instead, directives are based on a combination of level and exposure time. According to the Swedish Work Environment Authority, a hearing protector should provide a daily noise exposure index (LEX), of "8 h, 80 dB(A)". This is equivalent to 8 hours of continuous exposure at 80 dB(A), or 4 hours at 83 dB(A). At LEX "8 h, 85 dB(A)", hearing protection is mandatory.

The range of human hearing depends on sound level and frequency. We all know sound level as "loud or weak", and frequency as "high or low pitch", both of which are tested in regular hearing tests. A common indicator of harmless sound is below 85 dB(A), although also partly dependent on frequency. See page 5 for more information on harmless vs. harmful sound.



## Three layers for your protection

A hearing protector consists of three protective layers, which all contribute to suppressing noise to a harmless level depending on noise environment once it reaches your ear. Sordin Classic comes in three models – XLS, EXC and HPE – each featuring different attenuation capacities.

### Outer layer

The outer layer takes the first hit of the sound wave, and its thickness determines the difference in attenuation capacity between the three Sordin Classic models.

### Center layer

The unique molded inserts provide excellent noise attenuation and offer maximum space for the ears inside the cups.

### Inner layer

The sealing rings are made of comfortable foam cushions, allowing all-day wearing – while efficiently shutting out noise through tight sealing around the ears.



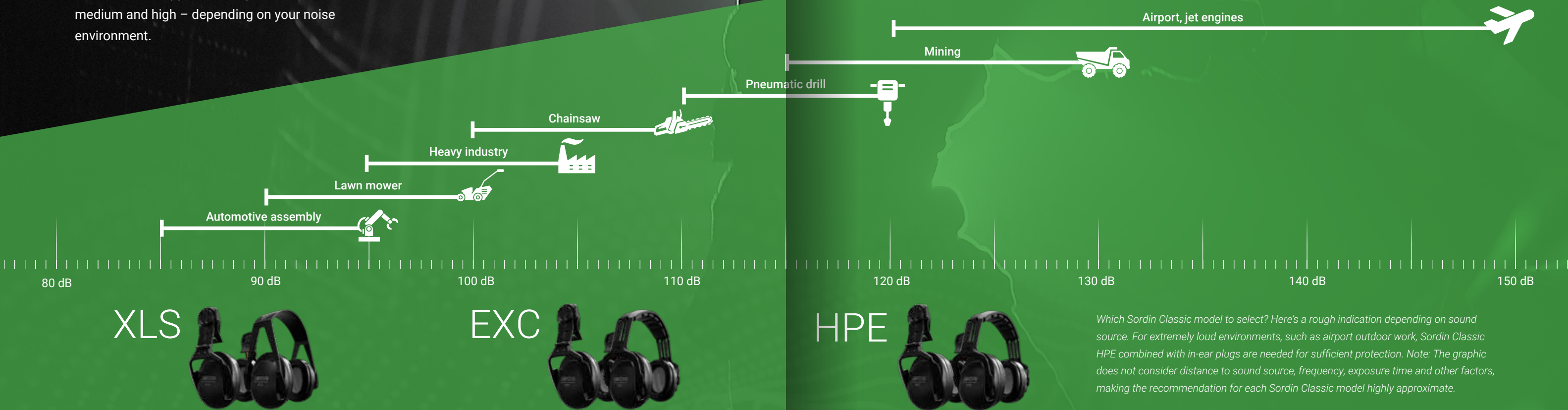
# Which Sordin Classic are you?

While hearing protection is a cheap and simple health insurance, too good protection may be a safety risk too. That's why Sordin Classic comes in three models with different attenuation levels.

It is important to always remain fully aware of events around you while wearing your hearing protector. Using too efficient suppression, you may lose connection with your surroundings, creating a feeling of isolation in your own, silent bubble.

The suitable hearing protector suppresses noise to just the right level, not too much, not too little. That's why Sordin Classic comes in three models with different suppression capacities – low, medium and high – depending on your noise environment.

It may be difficult to assess the danger of the noise you're exposed to, as it depends on different factors such as the type of noise, the frequency (or pitch), and whether noise is continuous or intermittent. And, of course, your distance to the sound source.





# Sordin Classic features

The image below is a collage of all three Sordin Classic models XLS, EXC and HPE. For a detailed description of each model, see page 10–11.



## Headband and helmet versions

All three Sordin Classic models XLS, EXC and HPE are available as headband or helmet versions.

## Classic design

The simple, no-frills design in all-black color adds to the timeless look that made Sordin Classic earn its name.

## Attenuation capacity

The thickness of the outer cup layer determines the attenuation capacity of the three Sordin Classic models.

## Even pressure

A two-point mounting system on the ear cups distributes the pressure evenly around the cushions for excellent comfort.



## Safe-grip headband

Easy to put on and take off the hearing protector, even when you are wearing gloves.

## Adjustable headband

The Sordin Classic models HPE and EXC come with an adjustable headband force for perfect, individual fit.

## Replaceable sealing rings

The sealing rings are replaceable and hygiene kits are available, including foam cushions and inserts/liners (accessory).

## Unique inserts

The unique molded inserts offer excellent noise attenuation and maximum ear space inside the cup.



# Specifications

## TECHNICAL DATA

			
Feature	Sordin Classic XLS	Sordin Classic EXC	Sordin Classic HPE
Category	Passive	Passive	Passive
Attenuation	Low	Medium	High
Headband version	•	•	•
Helmet version <sup>1)</sup>	•	•	•
Weight headband version	210 g	226 g	261 g
Weight helmet mounted version	212 g	215 g	246 g
Operating conditions	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C
Cup and headband color	Black	Black	Black
Complies with following environmental directives	REACH	REACH	REACH

### Materials

Cups	ABS	ABS	ABS
Attenuation foam	PU foam	PU foam	PU foam
Sealing cushion	ABS, PVC	ABS, PVC	ABS, PVC
Headband	POM	POM	POM
Cup supporting arm	PA	PA	PA
Adapter	PA	PA	PA
Holder	PA	PA	PA
Spring cover	PP	PP	PP
Spring	Stainless steel	Stainless steel	Stainless steel

### Product numbers

Headband	24010-S	22010-S	20010-S
Helmet Mounted Adapter No 1	14010-S	12010-S	10010-S
Hygiene Kit	60088-S	60083-S	60080-S

Foam cushion: PVC covered PU (Polyurethane) foam, Inserts/liners: Polyether foam

## APPROVED HELMET COMBINATIONS

Helmet type	XLS-2 (CE 708870)		EXC-2 (CE 708870)		HPE-2 (CE 708870)	
	Adapter	Sizes	Adapter	Sizes	Adapter	Sizes
3M G3001	2	L	2	L	2	L
Auboueix IRIS II	2	M, L	2	M, L	2	L
Grolls Balance AC	1	M, L	1	M, L	1	S, M, L
Grolls Balance HD	1	S, M, L	1	S, M, L	1	S, M, L
JSP Invincible MK II	18	L				
JSP MK II	1	L				
KASK Plasma AQ	20	L	20	L	1	M, L
KASK Zenith	20	L	20	M, L	1	S, M, L
MSA F2-Xtrem					15	L
MSA Thermalgard					17	S, M, L
MSA V-Gard	14	S, M, L	14	S, M, L	17	S, M, L
MSA V-Gard H1	14	L	14	L	14	M, L
MSA V-Gard 200	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard 500	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard 520	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard 910	14	S, M, L	14	S, M, L	17	S, M, L
MSA V-Gard 930	14	S, M, L	14	S, M, L	17	S, M, L
MSA V-Gard 950	14	S, M, L	14	S, M, L	17	S, M, L
Petzl Strato (unventilated)	1	S, M, L	1	S, M, L	1	S, M, L
Petzl Strato Vent	1	S, M, L	1	S, M, L	1	S, M, L
Petzl Vertex Vent	19	S, M, L	19	S, M, L	19	S, M, L
Petzl Vertex (unventilated)	19	S, M, L	19	S, M, L	19	S, M, L
Protector Style 300	1	S, M, L	1	S, M, L	1	S, M, L
Protector Style 600	3	S, M, L	3	S, M, L	3	S, M, L
Protector Tuffmaster II	1	L	1	M, L	1	L
UVEX Pheos Alpine	20	L	20	L	1	M, L

## EN APPROVALS

### TESTS AND CERTIFICATES

Tested and certified to EN 352-1:2002, and EN 352-3:2002

Certificates: CE 708869 (headband versions), CE 708870 (helmet mounted versions)

Notified Body: BSI Netherlands (NB 2797)



### ATTENUATION DATA (for complete attenuation data, see separate technical datasheet for each product)

	Sordin Classic XLS		Sordin Classic EXC		Sordin Classic HPE	
	Headband	Helmet	Headband	Helmet	Headband	Helmet
H	27	31	31	29	32	32
M	22	25	24	23	29	28
L	15	18	16	15	23	22
SNR	25	27	27	26	32	31

## ANSI APPROVAL (ANSI S3.19-1974)

### ATTENUATION DATA (for complete attenuation data, see separate technical datasheet for each product)

NRR	Sordin Classic XLS		Sordin Classic EXC		Sordin Classic HPE	
	Headband	Helmet	Headband	Helmet	Headband	Helmet
	23	23		24		26
Low Tension			24		26	
High Tension			25		28	



**SORDIN**

[www.sordin.com](http://www.sordin.com)   