



Passive Hearing Protection

[Comfort, Protection, Affordability]

The most important things when selecting hearing protection are the right performance and the wearing comfort. No matter whether you work in loud environments for some minutes only or for hours – protection is always needed. A worker who takes off his hearing protection because he does not feel 100% comfortable is a worker at risk.

With over 15 years of experience, MSA SORDIN offers a wide range of hearing protectors. All versions are comfortable hearing protectors that reduce the feeling of isolation. You have the choice between headband and helmet mounted version.

MSA SORDIN

Professional & spare time use

[Comfort]

No matter which MSA SORDIN product you choose, you will be guaranteed a first class hearing protector. Due to the supersoft ear cushions, the lightweight and the slim design of all passive hearing protectors, comfort is guaranteed for the whole day. In addition the HPE and the EXC Line are equipped with the patented adjustable headband pressure system.

[Protection]

The MSA SORDIN passive hearing protectors offer excellent noise attenuation for a wide range of applications.

[Economy]

The protectives offer a very good price to performance ratio.



XLS Model

The XLS provides a good combination of quality, comfort and great value. It has many features only found in more expensive ear muffs. XLS is mainly designed for use in lighter industrial environments and DIY [Do-it-yourself] use.

[Attenuation values]

XLS-Headband, SNR 25 dB
H = 27 dB, M = 22 dB, L = 15 dB

For details on all frequencies, please see page 5.

XLS	Order No.
Headband	SOR24010
Hygiene kit	SOR60088

- Extra wide headband reduces pressure on your head, ensuring a more comfortable and secure fit
- Two-point mounting system on ear cups, distributes the pressure evenly around the cushions
- Sure-grip headband facilitates donning and taking off the protectors even when you are wearing gloves
- Unique moulded inserts give excellent noise attenuation and provide maximum space for the ears inside the cup
- Weight: 218 g



EXC Model

The ear muff that is so comfortable that you always want to wear it! Unique injection moulded inserts provide excellent attenuation and maximum space for the ears inside the cup. EXC can be equipped with a selection of visors and is suitable for most noise situations.

[Headband]

- Wide and soft padding provides a firm fit
- Adjustable headband force for individual fit
- Two-point mounting system ensures pressure is distributed evenly around the cushion
- Unique moulded inserts give excellent noise attenuation and provide maximum space for the ears inside the cup
- Weight: 232 g

[Attenuation values]

EXC-Headband, SNR 27 dB
H = 31 dB, M = 24 dB, L = 16 dB
EXC-Helmet mounted, SNR 26 dB
H = 29 dB, M = 23 dB, L = 15 dB

For details on all frequencies, please see page 5.

EXC	Order No.
Headband	SOR20010
Helmet mounted*	SOR10012
Hygiene kit	SOR60080

*fits V-Gard helmets

[Helmet mounted]

- Patented spring design offers low pressure tension and a high level of comfort
- Three distinct wearing positions for ease of use
- Excellent grip makes it easy to adjust even when wearing gloves
- Weight: 218 g



HPE Model

The HPE ear muffs have been designed to offer protection in areas with very high noise levels, especially in low frequencies. Thick, soft, foam-filled cushions provide high comfort and perfect seal. HPE can be equipped with a variety of visors.

[Attenuation values]

HPE-Headband, SNR 32 dB
 H = 32 dB, M = 29 dB, L = 23 dB
 HPE-Helmet mounted, SNR 31 dB
 H = 32 dB, M = 28 dB, L = 22 dB

For details on all frequencies, please see page 5.

HPE	Order No.
Headband	SOR22010
Helmet mounted	SOR12012
Hygiene kit	SOR60083

[Headband]

- Wide headband with ventilated padding provides a firm and comfortable fit
- Easily adjustable headband force for individual fit
- Large space for the ears inside the cup
- Weight: 267 g



[Helmet mounted]

- Patented spring design offers low pressure and a high level of comfort
- Three distinct wearing positions
- Excellent grip makes it easy to adjust the cups even when wearing gloves
- Weight: 252 g

Accessories

[Visors and carriers]

MSA SORDIN's visor range is designed for those working environments where face protection is necessary. Visors are compatible with the hearing protectors: XLS, EXC, HPE, and the electronic hearing protectors BasicLine, ProLine, Wireless World, Connected by Cable.



Order No.	Visor Description	Approval	Symbols for field of use
SOR60040	PC, 20 cm	EN 166	1, F, 3, 9
SOR60041	PC, 16 cm	EN 166	1, F
SOR60042	PC, 10 cm	EN 166	1, F
SOR60043	PC, 20 cm, for electric arcs	EN 166	1, B, 3, 8, 9
SOR60044	PC, 23 cm	EN 166	1, B, 3, 9
SOR60045	PC, 20 cm, anti-fog/anti-scratch	EN 166	1, F, 3, 9
SOR60060	Metal mesh	EN 1731	S
SOR60065	Nylon mesh	EN 1731	S

PC = Polycarbonate
 1 = Optical class 1
 S = Mechanical strength, 12 m/sec
 F = Mechanical strength, 45 m/sec
 B = Mechanical strength, 120 m/sec
 3 = Protection against liquid splash
 8 = Protection against short circuit electric arc
 9 = Protection against molten metals and hot solids

Order No.	Carrier Description
SOR60020	Visor carrier for helmets
SOR60030	Visor carrier for headband BasicLine, ProLine, WW, CC, EXC & HPE
SOR60034	Visor carrier with brim for headband BasicLine, ProLine, WW, CC, EXC & HPE
SOR60035	Visor carrier for headband XLS
SOR60022	Visor attachment for helmets without ear muffs

[Adapters for helmet-mounted ear muffs]

To fit an ear muff on a helmet, a simple-to-attach adapter has to be used. With only one click, the adapter can be placed on the helmet. Note: all helmet-mounted ear muffs are supplied with the MSA V-Gard adapter fitted as a standard.

Order No.	Adapters for helmets	Description
SOR60012	Adapter for MSA V-Gard/Super V-Gard II	
SOR60010	Adapter for HC 300/HC 710/HC 41, Balance AC/ABS/ Robust	

Adapters for other helmets on request.



[Hygiene kits]

To maintain the sound attenuation performance of the ear muffs, it is important to regularly replace cushions and inserts. Under normal use, replace the hygiene kit at least twice per year. Each hygiene kit consists of cushions and inserts. Choose the hygiene kit applicable to the ear muff used.

Order No.	Hygiene kit	Description
SOR60088	Hygiene kit for ear muffs XLS	
SOR60080	Hygiene kit for ear muffs EXC	
SOR60083	Hygiene kit for ear muffs HPE	

Noise attenuation

It is important that the hearing protection used provides enough attenuation to protect the hearing.

But it is also important that it doesn't give too high attenuation for you to become overprotected.

Overprotection can prevent you from hearing your workmates, alarms and other important signals.

The recommended sound level under the hearing protector is between 70–80 dB.

Examples of noise:

Noise source	Level dB [A]
Electric machines	90–110 H
Farm tractors	85–100 L
Industrial ventilation	90–110 L
Diesel engines	90–120 L
Chain saws	90–110 M/H
Wood working	90–110 H
General industrial noise	90–110 M/H
Airports	100–140 H



Headband Models

[XLS]

According to EN 352-1								
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	12.8	11.6	17.2	21.7	30.4	29.2	35.4	34.4
Stand. dev. [dB]	4.7	3.5	2.7	3.1	3.4	4.2	4.1	4.6
APV-value [dB]	8.1	8.1	14.5	18.6	27.0	25.0	31.3	29.8

SNR = 25 dB, H = 27 dB, M = 22 dB, L = 15 dB

[EXC]

According to EN 352-1								
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	13.7	11.2	19.1	25.7	29.2	32.0	36.8	39.0
Stand. dev. [dB]	3.9	3.2	2.2	2.7	3.1	2.3	2.7	3.7
APV-value [dB]	9.8	8.0	16.9	23.0	26.1	29.7	34.1	35.3

SNR = 27 dB, H = 31 dB, M = 24 dB, L = 16 dB

[HPE]

According to EN 352-1								
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	17.9	20.6	23.7	29.7	35.0	33.1	39.0	41.7
Stand. dev. [dB]	3.3	3.4	1.9	3.0	3.3	3.3	3.0	4.0
APV-value [dB]	14.6	17.2	21.8	26.7	31.7	29.8	36.0	37.7

SNR = 32 dB, H = 32 dB, M = 29 dB, L = 23 dB



Helmet mounted Models

[EXC]

According to EN 352-3								
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	11.4	11.1	18.1	25.1	27.0	28.6	38.6	40.2
Stand. dev. [dB]	3.7	3.3	3.3	3.1	2.3	2.4	2.6	3.3
APV-value [dB]	7.7	7.8	14.8	22.0	24.7	26.2	36.0	36.9

SNR = 26 dB, H = 29 dB, M = 23 dB, L = 15 dB

[HPE]

According to EN 352-3								
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	14.7	19.7	23.6	28.0	33.9	32.7	39.2	40.7
Stand. dev. [dB]	3.9	3.3	2.9	2.9	2.8	2.8	3.7	3.7
APV-value [dB]	10.8	16.4	20.7	25.1	31.1	29.9	35.5	37.0

SNR = 31 dB, H = 32 dB, M = 28 dB, L = 22 dB



Other MSA SORDIN range



[Active Hearing Protection]

BasicLine

Equipped with basic electronic circuitry providing standard features for less frequent use.



[Active Hearing Protection]

Connected by cable

A wide selection of headsets for communication by cable connection to a 2-way radio. Can be connected to DECT, mobile phones or Communication radios.

[Active Hearing Protection]

ProLine

Developed for long-term use in very harsh environments. Very high sound quality.



[Active Hearing Protection]

Wireless World

A wide range of headsets for two-way communication. Can be connected to a mobile phone wirelessly using Bluetooth® technology.



[Defence & Police Hearing Protection]

Supreme

A range for military, law enforcement, hunting and shooting applications. Developed to meet MIL specification and extreme conditions.



[Rain and noise have one thing in common...]

If you walk out in heavy rain without a raincoat, you will get wet in a couple of minutes. If you then choose to use your umbrella, it is too late, you will be wet for the rest of the day! **It is the same with noise.**

After just a few minutes without hearing protectors in a noisy environment, the damage is already done. Even if you then wear a hearing protector for the rest of the day, your hearing has already been exposed to more than the ear can take. A few minutes of carelessness will harm your hearing almost as much as being in a noisy environment for a whole day without a hearing protector.

Damaged hearing can never be repaired. To guarantee the best protection, you should choose the best quality.

MSA SORDIN is always the right choice.