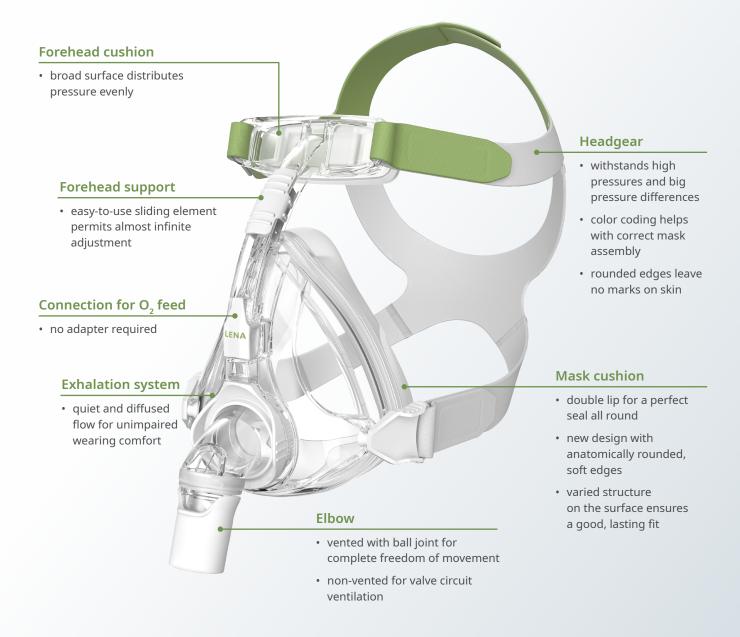


# Different needs. One mask. LENA.

Most people breathe in and out without having to think about it. Patients with respiratory insufficiency or sleep-related respiratory disorders need help with breathing. LENA – the new full-face mask from Löwenstein – has been developed specially for ventilation. The primary focus is on a comfortable mask fit, particularly when high pressures are applied or when the pressure difference between inspiration and exhalation is considerable.





## Three factors are essential for an optimum mask fit at high therapy pressures.

The mask cushion stands out with its double lip. The therapy pressure creates an air cushion that provides a perfect seal without causing any pressure points. The shape mirrors the anatomy and is based on two factors:

Our patient face database that has been growing for many years and the market feedback that is constantly collected and evaluated.

The second important factor concerns the **connection between mask cushion and mask body**. On the one hand, the connection must be stable during the therapy – both at constantly high pressures and with high pressure differences during

inspiration and exhalation with BiLevel therapy. On the other hand, the connection must be easy to disassemble so that it can be cleaned simply and effectively. An apparent paradox that LENA resolves effectively.

The **headgear** completes the essential triad. The headgear material is strong enough to ensure that the mask does not leak or become unstable at high pressure differences. An individually adjustable forehead support including forehead cushion gives LENA extra grip.

#### Spare parts/accessories



LENA headgear

Standard: LMT 26435 XL: WM 25338



LENA mask cushion

Size S: LMT 26602 Size M: LMT 26603 Size L: LMT 26604



LENA ripcord LMT 26464

Endoscopy adapter NV LMT 15968



NV elbow set LMT 15970



LENA elbow set LMT 15969

 $Further\ information\ about\ our\ therapy\ solutions,\ accessories\ and\ mask\ systems\ is\ available\ at\ {\bf loewenstein medical.com}$ 

#### **Technical specifications**

	LENA	LENA NV		LENA	LENA NV
Product class to (EU) Medical Device Regulation 2017/745	II a	II a	Flow resistance • at 50 l/min	0.32 hPa	0.04 hPa
Dimensions (H x W x D)			• at 100 l/min	0.68 hPa	0.14 hPa
• Size S	155 x 100 x 95 mm	155 x 100 x 105 mm	Flow resistance.		
Size M	165 x 100 x 95 mm	165 x 100 x 105 mm	anti-asphyxia valve		
• Size L	175 x 100 x 100 mm	175 x 100 x 110 mm	• Inspiration at 50 l/min	0.6 hPa	-
			• Exhalation at 50 l/min	0.8 hPa	-
Weight	407	435			
• Size S	137 g	135 g	Switching pressure,		
• Size M	141 g	139 g	anti-asphyxia valve		
• Size L	150 g	148 g	Open:	0.5 hPa	-
Dead space			• Close:	2.2 hPa	-
• Size S	246 ml	252 ml	Ot1 t		
Size M	288 ml	270 ml	Quoted two-figure noise emission value		
• Size L	326 ml	321 ml	to ISO 4871:		
			• Sound pressure level:	12 dB(A)	
Therapy pressure	4 hPa – 35 hPa	4 hPa – 35 hPa	• Sound power level:	20 dB(A)	-
			Uncertainty factor:	3 dB(A)	
Tapered tube connection			oncertainty factor.	3 db(A)	
to EN ISO 5356-1	Ø 22 mm (male)	Ø 22 mm (female)	Service life	5 years	5 years
				5 , 5	5 , 5 5
Temperature range			Useful life	up to 12 months1	up to 12 months <sup>1</sup>
Operation	+5 °C to +40 °C	+5 °C to +40 °C			
• Storage	-20 °C to +70 °C	-20°C to +70°C	Standards applied	EN ISO 17510: 2020	EN ISO 17510: 202

<sup>&</sup>lt;sup>1</sup> Materials used to manufacture masks will age if exposed to aggressive detergents, for example. In individual cases, it may therefore be necessary to replace mask parts sooner.

### Reprocessing

Material of mask parts	Chemical disinfection	Thermal disinfection	Sterilization	Cycle	Hand wash	Dishwasher
Plastic	•	•	_	30	daily	weekly
Silicone	•	•	•	30	daily	weekly
Teytile	_	_	_	_	weekly	_

Details of reprocessing can be found in the "Information on hygiene treatment" brochure on our homepage.

Device name	Size	Article no.	HMV item no.
LENA	S	LMT 26460	14.24.16.6066
LENA	M	LMT 26470	14.24.16.6066
LENA	L	LMT 26480	14.24.16.6066
LENA NV	S	LMT 26960	14.24.16.1028
LENA NV	M	LMT 26970	14.24.16.1028
LENA NV	L	LMT 26980	14.24.16.1028

**C**E 0197





Löwenstein Medical Arzbacher Strasse 80 56130 Bad Ems, Germany T. +49 2603 9600-0 F. +49 2603 9600-50 info@loewensteinmedical.com







