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## CE KONFORMITÄTSERKLÄRUNG CE EC DECLARATION OF CONFIRMITY

The manufacturer:

EVOC Sports GmbH  
Tegernseer Landstr. 37A  
D-81541 München  
Germany

Declares that the following products:

Description	:	Backpack
Brand	:	EVOC
Model	:	LINE R.A.S. 20l/30l
Year of manufacture	:	2019

Fulfills the following European Directive:

- Directive Regulation (EU) 2016/425 -personal protective equipment (PPE)

Authorized person to elaborate the technical file:

Name :  
Address :

Simon Scherer  
Tegernseer Landstraße 37A  
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EVOC Sports GmbH  
München, 03.01.2019

Simon Scherer  
Product Manager  
EVOC Sports GmbH



Product Service

# EC-Type Examination Certificate

No. P6 17 12 63329 008

**Holder of Certificate:** **EVOC Sports GmbH**

Tegernseer Landstr. 37A  
81541 München  
GERMANY

**Product:** **PPE against drowning  
Snow avalanche Airbag backpack, DIN EN 16716**

**Model(s):** **Mammut RAS 3.0  
in backpacks:  
EVOC LINE R.A.S. 20I  
EVOC LINE R.A.S. 30I**

**Parameters:**

Versions:

-EVOC LINE R.A.S. 20I; 20 litres backpack volume

-EVOC LINE R.A.S. 30I; 30 litres backpack volume

Function Principle:

An airbag which improves buoyancy and floatability in a floating snow avalanche, what improves the probability of staying on the surface significantly (effect of inverse segregation). Activation of airbag filling by the user via pulling a release handle, what activates via steel wire cable a needle in the pressure gas cylinder ejector, which penetrates the cylinder sealing of the pressure gas cylinder;

Airbag volume: 150 liters;

Filling principle:

Pressure gas filling combined with Venturi valve effect;

More Parameters: see Annex

This EC-Type Examination Certificate is issued according to Article 10 of Council Directive 89/686/EEC for personal protective equipment as classified in Article 8 (PPE of category 2). It confirms that the listed product fulfills the basic requirements as specified in Annex II of the Directive. This certificate refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification and on its technical documentation. See also notes overleaf.

**Test report no.:** 713117559

**Valid until:** 2022-12-18

**Date,** 2017-12-20

( Matthias Völz )



TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 89/686/EEC for personal protective equipment, notified by publication in the Official Journal of the EC No. C 203/44 dated July 07th, 1994 with identification No. 0123.

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Annex to EC-Type Examination Certificate

**No.: P6 17 12 63329 008****Mammut RAS 3.0 Avalanche airbag system:**

Pressure gas cylinder:	3 versions: -300 bar composite cartridge (for EU market), 0.25 l content; not refillable; filled with nitrogen (test certificate no.: 06.165.766; TÜV SÜD Czech); -300 bar steel cartridge (for EU market), 249 ml content; not refillable; filled with nitrogen (test certificate no.: 29/06/0012 Rev. 2; SGS-TÜV); -207 bar aluminium cartridge (for North America market), 360 ml content; refillable; filled with dry air (test certificate no.: USA-07-09-105-001 from TÜV Süd Industry Service GmbH); with valve (test certificate no.: 0036-032-07 Rev. 2; TÜV SÜD Industrie Service) and gauge;
Airbag system:	Removable Airbag System (R.A.S.): Airbag components can be removed from the backpack by 4 aluminium clips;
Activating system:	deployment handle release with one 1 mm stainless steel cable to release needle of pressure gas cylinder ejector; positioned in pocket at shoulder straps under zipper cover;
Deployment handle:	foldable plastic handle, 92,5 mm x 24 mm x 20mm with a pin-press arretation; end hook made of aluminium for adjusting the handle on the shoulder straps in 3 different positions (S-M-L); deployment by pulling deployment handle: inner part moves out for app. 5 mm against spring;
Ejector (Airbag inflation system):	device where deployment handle, pressure gas cartridge and airbag are attached to; with plastic net cap for venturi input and air release; fixed in airbag pocket and cartridge pocket;
Airbag position:	balloon integrated in a pocket of the main bag of Backpack/ vest close to neck area; zipper cover with release point on top;
Airbag:	pillow-shaped coated PA 66 fabric in orange colour, stitched and sealed (glued); connected to ejector tube with a 100 mm long tube opening with 1 steel clamp closure in textile channel;

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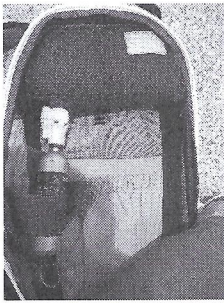


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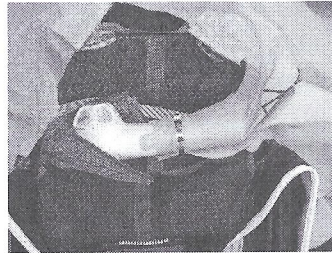
Backpack/ vest fixation of airbag:	connected to backpack/ vest with 4 colour coded stitched loops (15 mm wide PA-webbing) with T-Bar (45 mm x 10 mm x 3 mm, aluminium) on airbag and 4 colour coded stitched textile loops (15 mm wide PA-webbing) at the inner backpack/ vest frame construction;
Backpack/ vest fixation at user:	-backpack: 2 shoulder straps with chest strap, 1 hip belt and 1 leg belt; -vest: frontal chest zipper, ot top with plastic buckle enforcement; 4 lateral adjustment straps, 1 hip belt and 1 leg belt;
Marking:	-on the backpack/ vest: type; CE, "read instructions" pictogram, manufacturer address; correct implementation; -on ejector: manufacturing date; CE-marking, serial no., distributor address; "read instructions"-logo; -on the airbag: type, batch no. Mammüt
Backpacks:	div. versions for cross country skiing/ snowboarding with one airbag stuffed in an extra pocket of the upper back part of the backpack together with pressure gas cartridge and ejector; main bag for gear storage; fixation buckles and slings for skis, snowboards, helmet and ice tools; storage for probe and shovel; aluminium plug-in buckle at hip belt; aluminium buckles at shoulder straps, plastic buckles at chest strap and aluminium adjustment buckle at leg loop; in different torso sizes;
Weight:	RAS 3.0 System: 1483 Grams (including steel cartridge); steel cartridge: 440 Grams -EVOC LINE R.A.S. 20l: 1881 g (without gas cartridge) -EVOC LINE R.A.S. 30l: 2099 g (without gas cartridge)



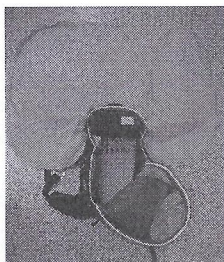
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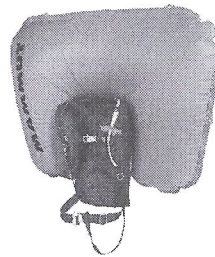
undeveloped airbag system with cartridge, Venturi unit and packed airbag



Venturi unit with airbag attachment



RAS backpack with opened airbag



deployed RAS airbag backpack

**Backpack Models:**

**EVOC LINE R.A.S. 20l:**



**EVOC LINE R.A.S. 30l:**



Department:  
Date:

GARTCP / M. Völz  
2017-12-20