



**KORPORACIJA**  
**Krusevac - Serbia**



# **INSTRUCTIONS FOR USE**

# **HORIZONT**

# **Protective Mask**



# **1. DESCRIPTION**

## **1.1 Structure**

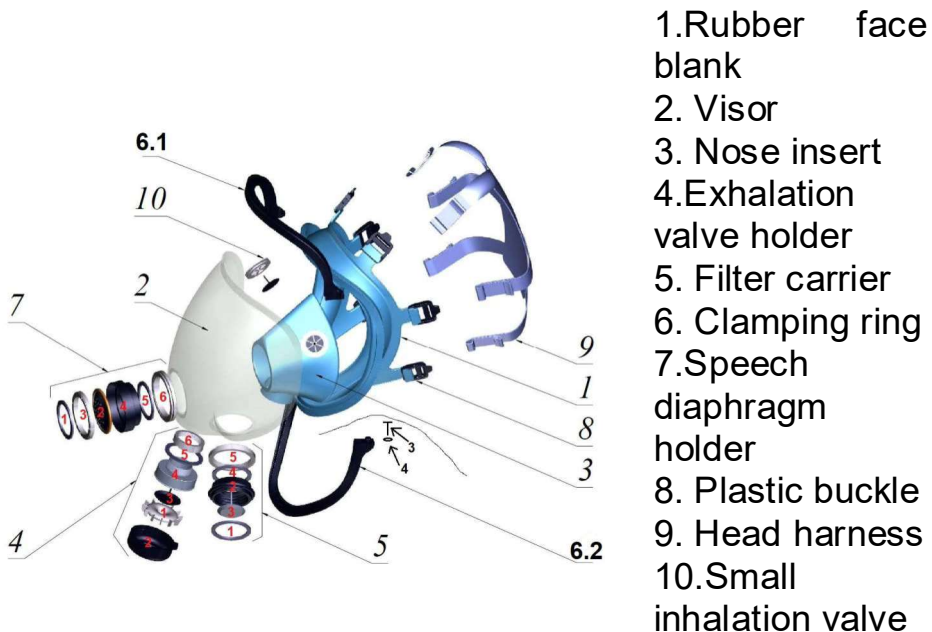
The HORIZONT Protective Mask (hereinafter referred to as the mask), is a complete mask for general use of Class 2 in accordance with EN136: 1998 + AC: 2003. It is made of bromobutyl rubber (in colour black or blue) and plastic components. The mask has a standard filter connector according to EN 148/1. This mask is of panoramic type with a visor all over the face. On the mask there is a possibility of mounting filters on the left or right side of the visor. The mask has a speaking membrane for communication. The mask is produced in one size M / L. The mask with a threaded filter makes up a device (equipment) for protection of the eyes, face and respiratory organs.

## **1.2 Operating principles**

By means of the set of elastic straps or rubber straps, the mask is fastened to the head and it totally seals and encloses the entire face of the user. Inhaled air flows through the filter, through inhalation valve on the filter carrier, two smaller inhalation valves built into the nose insert, and enters the inside space of the nose insert of the mask. The exhaled air is expelled into the environment through the exhalation valve.

## **1.3 Component parts**

Mask weights approx. 600 grams and consists of the following component parts:



**1.4 Marking**

The mask is marked as follows:

|             |  |
|-------------|--|
| HORIZONT    | Name of the mask   |
| TRAYAL      | Identification of the manufacturer (logo).   |
| CL2         | Number of the relevant class behind the letters "CL".                                  |
| EN 136:1998 | The norms to which the product is subjected  |
| YY          | Year of production on the faceblank (on the inner side).                               |
| CE          | Label of conformity  |
| M/L         | Size   |
| XXXX        | Code of the authorized institute which performs the inspection of the finished product |
| xxxxxx      | Marking of the parts. Numerical marking consisting of 6 symbols.                       |

## **2. FIELD OF APPLICATION**

### **2.1 Field of application**

The mask with adequate filters can be used for protection of respiratory organs, face and eyes against toxic gases, vapors, particles of smoke and fog. It is used in atmosphere with at least 17% oxygen concentration in volume in all climatic zones at temperatures from -30°C to +50°C.

### **2.2 Applicable filters**

This is the mask with standard thread connector (according to EN 148/1) which allows the connection of the following filters:

Particle filters according to EN 14387:2004+A1:2008 (ГОСТ 12.4.235-2012) (P2 or P3 class).

- Gas filters according to EN 14387:2004+A1:2008 (ГОСТ 12.4.235-2012) (class 1, 2 or 3)
- Combined filters according to EN 14387:2004+A1:2008 (ГОСТ 12.4.235-2012) for protection against gases and vapours, (class 1, 2 or 3) and particles (P2 or P3 class).

The field of application and the protection classes are specified in the instructions for the use of particle filters, gas filters and combined filters with connection according to EN 148/1.

### **2.3 Restrictions in use**

The mask is not to be used under the following conditions:

- If the type and concentrations of the contaminants are unknown.
- If the oxygen concentration in the contaminated atmosphere is less than 17 % in volume.
- In confined spaces such as cisterns, conduits, open pit mines, etc.
- The Horizont mask must not to be used by firemen

The using of protective industrial mask Horizont is not recommended for the persons with small face.

## **2.4 Caution and warning**

Prior to each use, it is necessary to check that the mask perfectly aligns to the face. The mask is to be used under the following conditions only:

- The user must be in good health and trained how to use respiratory protection devices.
- The user must be shaven.

Do not use masks with gas or combined filters in oxygen enriched atmosphere (no more than 23,5% in volume). Make sure that there are no restrictions, specified in Section 2.3, in conditions under which the mask will be used.

## **3. INSTRUCTIONS FOR USE**

### **3.1 Inspection of the mask and filters prior to use**

Before using the mask and filters, check if they are clean and in perfect condition. Pay attention particularly to the exhalation valve and the gasket inside the connector. After choosing the appropriate filter (see appropriate instruction

for use of the filter), and prior to its assembly, check if it is new and if it conforms to the chosen type of filter. Make sure that the gasket is correctly positioned into the connector and screw on the filter tight enough so that the seal is completely airtight.

### **3.2 Putting the mask in the right position**

The mask with threaded filter must be put on the face outside the contaminated environment only. Place the mask in front of the face, separate the carrying straps and place them on the shoulder. Align the mask to the face and tighten the ends of the straps. Adjust the tension of the straps if necessary. The facepiece of the mask must firmly cover the entire face of the user. The straps must be tightened but not too tightened in order to allow the comfort to the user while wearing the mask and so as not to affect the reliability of alignment to the face of the user. Make sure that the mask is correctly put on the face by moving the head left-right and up and down.

### **3.3 Tightness test**

Put the mask with firmly threaded filter on the face and align it by tightening the straps. Do not remove a smaller plug from the filter but press it down around the edge with one hand so that it can be fully closed. Upon inhalation, the mask must be aligned to the face and remain in such position for several seconds. If it is not completely tight, remove the mask and check again if it is correctly assembled or manufactured.

### **3.4 Use of the mask**

After checking that the seal is tight, the user may enter the contaminated area and breathe normally. Pay attention to

Section 2.3. of this Instruction regarding the nature and concentration of contaminants and leave the contaminated area before the filters are used up (see related instructions for use) or immediately after the user has experienced the following:

- odor or taste of contaminants,
- excessive increase in respiratory resistance,
- other breathing difficulties or feeling discomfort.

If it is necessary to continue the operation, leave the contaminated area and replace the filter with a new, identical one and repeat the tightness test procedure (refer to Section 3.3). During use, make sure that the filter or the mask do not knock against any object, since it may lead to their relocation or damage, thus affecting their protective capacity.

### **3.5 Storage of the mask**

After use, remove the filter from the mask, clean and /or disinfect the mask ( refer to Section 4). If the filter is still usable (i.e. far from being used up and not dirty on the outside), it can be screwed back onto the mask. Store the mask with a threaded filter in a fully closed polythene bag or in other sealed box, protected from intense light, heat, intense cold, humidity or any other substances or radiation which could damage it.

The gas or combined filter must be close with a small lid which came with it upon delivery.  
If the packaging in which the mask is wrapped up is not solid, do not place other objects on it as they could deform or damage the mask.

### **3.6 Precautionary measures**

If the mask has been used by another person, it must be disinfected (refer to Section 4.2.). It is advisable to replace the filter (gas or combined filter) with a new one if the mask, with a threaded filter, has not been appropriately stored (in a sealed container) for several days (refer to Section 3.5.).

## **4. MAINTENANCE AND STORAGE**

### **4.1. Cleaning**

The mask must be cleaned after each use. After detaching the filter element, remove dust with a compressed air jet and then sweep dirt with a damp cloth. After disassembling the component parts, wash them thoroughly, if necessary, with tepid water containing mild detergent (never use solvents). The exhalation valves must be cleaned with special care. Remove the lid of the valve, remove the valve and rinse it under running water. Let it dry in the open air or in the mask which is left to dry (after washing) in a suitable cupboard or holder. Avoid exposure to direct sunlight or to any artificial source of heat. Rubber components are to be dried at temperatures below 50°C. After drying, put the exhalation valve back on the mask and reassemble the lid of the exhalation valve.

### **4.2 Disinfection**

Clean the mask thoroughly before disinfection. If the mask is extremely dirty or if it has been used by another person, it should be disinfected with an appropriate agent which cannot damage the rubber or plastic components, such as alcohol. After the disinfection is complete, rinse it under



running water and dry following the instructions described in Section 4.1.

### **4.3 Disassembly and reassembly**

Remove the lid from the exhalation valve, remove the exhalation valve and remove the head harness.

After cleaning the component parts, make a visual inspection and reassemble the mask carefully. Handle delicate rubber exhalation valves with care. Make sure that all the component parts are correctly reassembled.

### **4.4 Inspection and periodic maintenance**

In order for the mask to always function safely, the user is to undertake the following maintenance procedures:

| OPERATION                        | FREQUENCY  |   |                                      |  |                  |                   |
|----------------------------------|--|---|--------------------------------------|--|------------------|-------------------|
|                                  | B<br>e<br>f<br>o<br>r<br>e<br>f<br>i<br>r<br>s<br>t<br>u<br>s<br>e | B<br>e<br>f<br>o<br>r<br>e<br>e<br>a<br>c<br>h<br>u<br>s<br>e | A<br>f<br>t<br>e<br>r<br>u<br>s<br>e | E<br>v<br>e<br>r<br>y<br>6<br>m<br>o<br>n<br>t<br>h<br>s | Every 5<br>years | Every 10<br>years |
| Check the condition of package   | x  | x   |                                      | x  |                  |                   |
| Cleaning and disinfection        |  | x   | x                                    |  |                  |                   |
| Practical use and tightness test | x  | x   |                                      |  |                  |                   |

The mask which is regularly used must be cleaned and disinfected. The mask is to be cleaned after each use because the sweat and saliva remaining on the exhalation valve may compromise its safe functioning. Moreover, the mask must be disinfected before being used by another person.

If the mask has not been used for a long time, it must be submitted to inspection, cleaning and disinfection procedures prior to use. After the expiration date of ten years, the mask is to be withdrawn from further use.

**4.5 Storage and shelf life**

It is recommended that the unused mask be stored in its

original packaging – laminate bag in a box that can be white with a label or with a photo of the mask and basic information on the product. After use, the mask must be packed in the sealed container in which it is shipped and stored until the next use. Do not put any objects or other devices onto the mask in order to avoid its damage or deformation. The mask is to be stored at temperatures ranging from +5 °C to +25 °C, relative humidity <70%, protected from sources of heat, dust and other substances or radiation, which can cause damage to the complete mask or its component parts. The expiration date for factory-packaged and properly stored masks is 15 years from the date of manufacture.

## **5. WARNING**

The mask complies with applicable standards EN 136:1998+AC:2003, and should be used and handled according to the instructions for use. The manufacturer does not accept any responsibility for damages caused by improper use, unauthorized repair, use of spare parts other than those prescribed or, in general, for damages caused by not adhering to these instructions for use.

## **6. NUMERICAL MARKINGS**

|  |                |
|--|----------------|
| <b>6.1 HORIZONT Protective mask</b>    | <b>532 945</b> |
| <b>6.2 Spare parts and accessories</b> |                |
| <b>Head harness</b>                    | <b>385 260</b> |
| <b>Exhalation valve</b>                | <b>532 671</b> |

## **7. FILTERS THAT COME WITH THE MASK**

All the filters that are specified in Section 2.2. of this Instruction can be used with the mask .



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