

First IS approved Gas Mark  
IS 14166



CM/L - 7880394



**JLD**

**PROTECT 2000**  
**FULL FACE MASK**

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# *USED WHEN WORKING IN AREAS EXPOSED TO POLLUTANTS THAT HARM BREATHING AND YOUR FACE*

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## **Features**

- Full Face Mask to IS 14166 : 1994
- Double Reflex seal
- Full Vision Visor
- Auto De-misting Mechanism
- Adaptable to any face size and contour
- Screw-in IS 14138 part-I (EN 148) / Plug - in Connections
- 5 - Finger Adjustable Head Harness for rapid donning
- Efficient Speech transmitter
- Low Breathing resistance
- Close fitting oral nasal Mask (Inner Mask) to prevent CO2 build up
- Perspiration drain to avoid skin irritation
- Non - ageing chemical resistant EPDM rubber frame, Choice of Natural / Neoprene / Butyl / Silicon / available

## **Minimal CO2 build up**

Mouthpiece & connector design provision of inner mask ensures that exhaled and inhaled air is not mixed. This reduces re-circulation of exhaled air while inhalation there by reduces CO2 build up in mask cavity.

## **Low Breathing Resistance**

Low breathing resistance results from the large cross-sectional area of the exhalation valve. It is located in the area of the exhalation valve. It is located at the lowest part of the face piece for good perspiration / saliva drainage.



## Adaptable to any face size and contour

Protect 2000 Mask is designed to fit any universal face size except for exceptionally large & small face contours.

## Auto De-misting Mechanism

The inhaled air passes over the visor and is directed through the two control valves into the inner mask. The moist exhaled air is released into the atmosphere through a non return valve, thus preventing misting / fogging of the visor.

## Adaptable Connectors

It has connections suitable for adaptation to indigenous as well as imported

- Mechanical filters (particulate filter)
- Chemical filters
- Chemo mechanical filter combinations
- Self contained closed circuit oxygen breathing apparatus
- Self contained open circuit compressed air breathing apparatus



- Airline breathing apparatus

## Finger Adjustable Harness

This widely adjustable harness can be quickly fixed and released. It locks immediately and prevents lethal dislocation of the mask during use.

This mask is used in situations affecting respiration adversely, such as breathing conditions involving:

- Particulate matter Mist (e.g. oil or water mists, fumes and Smoke)
- Gases (e.g. organic and inorganic vapours and solvents, acid and ammonia vapours)
- Radioactive material
- Combinations of above (e.g. engine emissions contain smoke particles and carbon monoxide gas)
- Mercury vapour
- Other vapour and gases not listed above

## **EPDM Rubber Frame**

Superior EPDM mask frame ensures snug fitment to various face contour, choice of material either in Natural / Neoprene / Silicon or Butyl depending on application

## **Perspiration Drain**

Perspiration drain enables sweat to collect in the chin cup & drained out through the exhalation outlet.

## **Universal Design**

This ensures a snug, secure fit on any face contour. The mask stays in place during facial movements due to pressure changes inside the mask during breathing.

## **Speech Transmitter**

Facilitates good verbal communication, essential in emergencies. It consists of a high efficiency speech diaphragm in a protective housing, located in a large exhalation valve antechamber. The antechamber is flushed on each exhalation so that harmful gases cannot penetrate into the speech diaphragm or the inner mask chamber. The speech transmitter ensures clean communication even via telephone, radio transmitter etc.

## **Full-Vision-Visor**

Permits full natural field of vision, allowing 3-dimensional vision (for total environment visual synthesis and early peripheral hazard detection) with minimum distortion

## **Double Reflex Seal**

Double reflex seal ensures extra fail proof sealing

## **Maintenance and Disinfection**

Easy maintenance. All parts are replaceable and can be dismantled and

assembled by simple tools; disinfected easily by standard Alkaline soap solution

If harmful substances and their concentration are within approved levels, filtering devices provide effective respiratory protection and used with the Protect 2000 Full Face Mask.

If the oxygen concentration is below approved levels then the Protect 2000 Full Face Mask can be used in conjunction with a suitable oxygen/compressed air/airline breathable air source.

A Lung Demand or applicable Filter can be connected to the mask's Screw-in / Plug-in connector.

The mask can be supplied with fresh air from a connected source.

The double sealing frame of the Protect 2000 mask ensures a particularly comfortable and tightly sealed fit.

If the Protect 2000 mask is used with filters, it is important to note that harmful substances and their concentration in the environment should be known and the Oxygen concentration should be within approved limits.


To match the specific type of duty and requirements, the mask body is made of EPDM with choice of material either in Natural / Neoprene.

The visor is made of flame retardant and scratch proof clear transparent material. A visor protection cover is provided to prevent visor damage due to handling.

## Technical Data

Mask body, Harness and Inner Mask	Standard EPDM, Choice of NR+CR blend Silicon, Butyl rubber available
Visor	Impact scratch-resistant hard coated Polycarbonate
Connector	Robust thermoplastic with inhalation and exhalation valves Threading to IS 14138 (part-I) or special Plug-in type for Lung governed Demand valve
Weight	Approx. 650 g
Temperature resistance	- 30°C to + 60°C
Flammability	Flame retardant, Passes flame engulfment test at 950°C
Leakage	Low inward leakage, secured due to double reflex seal
Skin Compatibility	Dermatologically Safe
Tested	To IS 14166, EN 136

## Approvals

- Approved by CQAFE and CQA (NS) for use in Indian Defence forces for use with CABA
- IS 14166:1994;  mark license no. CM/L no. 7880394 for "Protect 2000" full face mask



## Ordering information

Protect 2000 Full Face Mask	Screw – in type, EPDM body, PC visor	D-2000 S
	Plug – in type, EPDM body, PC visor	D-2000 P
	With two bayonet connectors for filter cartridge, NR+CR Body, PC visor	D-2002
	Side port, Screw – in type, NR+CR, PC visor	D-2003
	Screw – in type, Silicon body, PC visor	D-2004
	Plug – in type, Silicon body, PC visor	D-2005
	Screw – in type, NR+CR, PC visor	D-2006
	Plug – in type, Nr+Cr Blend body, PC visor	D-2007

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