

**Comfortably the
best** face mask on
the market



 **MaskLOGIC**
Personal safety **makes sense**

Custom-made, reusable half-mask
respirators: **individual** comfort
and protection



Custom nose piece

Get the best fit and comfort where you need it most with a soft, custom-fit nose bridge. This design ensures high protection and allows for comfortable extended wear.

For easy tracking and identification, every nose piece is engraved with a unique serial number including your initials.

Filters

Mask Logic supplies a range of compatible dust, gas and combined filters.

Exhalation valve

For a comfortable wearing experience even when working hard.

Standard filter connection

Rd40 screw thread filter connection compatible with any EN148-1 threaded filter.

Personally sized soft body

The best soft body shape predicted by scanning delivers a great fitting mask no matter the shape and size of the face.

Soft headband

Provides extra comfort over different hair styles.

For more details
contact Mask Logic

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Innovative technology

Mask Logic's IdealFIT 100 custom-made, half-mask respirator provides superior comfort and fit, leading to a safer, healthier, and happier working experience.

No more compromise with half masks that are uncomfortable to wear and don't fit properly.

Face scan

We use 3D scanning technology to create a mesh of your face.

We use 3D printing to make the fully customised nose piece, conformed to your facial geometry.

We use measurements from your face scan to select the soft body shape that provides the best fit to your face.

We weld them together to make your IdealFIT 100 personal half-mask respirator.



Comfortably the best

Mask Logic's mission is to produce the most comfortable masks, individually fitted to a person's face, regardless of gender, race, or other variants of facial contour.

Better Fit for Difficult-to-fit Faces

First, people who find it difficult to get a face fit test pass have a better chance with the IdealFIT 100. The combination of our soft-body shapes and custom nose bridge offers people a greater potential for great fit, not just a pass, than standard size, small, medium or large masks.

Better Care and Ownership

Third, every mask has a unique code for each individual including their initials. Giving people a mask personally made for them, encourages them to take responsibility for the maintenance and ownership of the respirator.

Greater Comfort During Use

Second, because it is made for an individual face using soft materials it is comfortable to wear and so discourages people from taking it off when they shouldn't, thereby encouraging compliance.

Enhanced Feeling of Being Valued

Fourth, if people know that the organisation is providing a custom-made, personalised piece of PPE they feel well-looked-after by their employer.

Custom fit
=
higher pass rates

Comfort
=
compliance

Personal code
=
ownership

Individual comfort for everyone

The new British Standard, a guide for selecting inclusive PPE, BS 30417, published in September 2025, makes this an ideal time to consider personalised respiratory protection.

The British Standards Institution (BSI) has developed this guide to ensure that employers select PPE that provides proper fit, comfort and protection without regard to gender, body shape, ethnicity or religious factors.

Custom-made masks tailored to accommodate the needs of various workers ensure universal fit. This approach guarantees a proper fit for everyone that fulfils the essential requirements of selecting inclusive PPE.



Technical Specification

IdealFIT 100 EN 140:1999 Test Results

EN 140:1999 Test	EN 140:1999 Requirement			Mask Logic IdealFIT 100 Result		
Temperature Conditioning	24 hrs in a dry atmosphere at 70°C followed by 24hrs at -30°C.			PASS		
Flammability	Burning must cease within 5 seconds of flame removal.			PASS		
Head Harness Pull Test	Withstand a pull of 50N for 10 seconds.			PASS		
Connectors Pull Test	Withstand a pull of 50N for 10 seconds.			PASS		
Breathing Resistance: Inhalation	<0.50mbar @30l/min	<1.3mbar @95l/min	<2.00mbar @160l/min	0.33mbar @30l/min	0.91mbar @95l/min	1.57mbar @160l/min
Breathing Resistance: Exhalation	<3.00mbar @160l/min			1.43mbar @160l/min		
CO ₂ Content of Inhaled Air	<1.00%			0.93%		
Inward Leakage*	<2.000%			0.743%		

* Based on the average of 10 test participants.

Detailed instructional videos for mask use, care, and assembly can be found on our website by using the QR code provided below.



Mask Logic provide a comprehensive selection of dust, gas and combined filters, using the Series DIRIN 230 range from dpiSekur, a leading European manufacturer of respiratory protection. These filters have screw threads conforming to EN148-1. For more information about filters please contact Mask Logic at info@masklogic.co.uk.

Other respiratory equipment manufacturers also provide filter ranges with screw threads conforming to EN148-1 that are compatible with the standard filter connection on the IdealFit 100.



Lightweight design
The average IdealFIT 100 half mask weighs just **142g** (excluding filter).

Description

IdealFIT 100 (IF100) is a custom-made, reusable half mask respirator, approved and designed to help provide respiratory protection against certain airborne contaminants when used in accordance with all Instructions For Use and limitations and applicable safety and health regulations.

IF100 masks are custom-made for each individual by combining a custom 3D printed nose bridge with one of a range of soft body shapes selected through face scan measurements.



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