



 **Speedglas**<sup>™</sup>  
Welding Safety

The Speedglas generation 5 welding helmets

# Simplicity meets flexibility

3M Science. Applied to life.<sup>™</sup>

# Helping to improve performance and life of the welder

Like all proud craftsmen welders tend to strive for excellence. So we believe they deserve great equipment that not only keeps them safe but also helps to enhance their performance and helps keep them comfortable during their entire workday. That's why we designed our Generation 5 (G5) of welding helmets with:



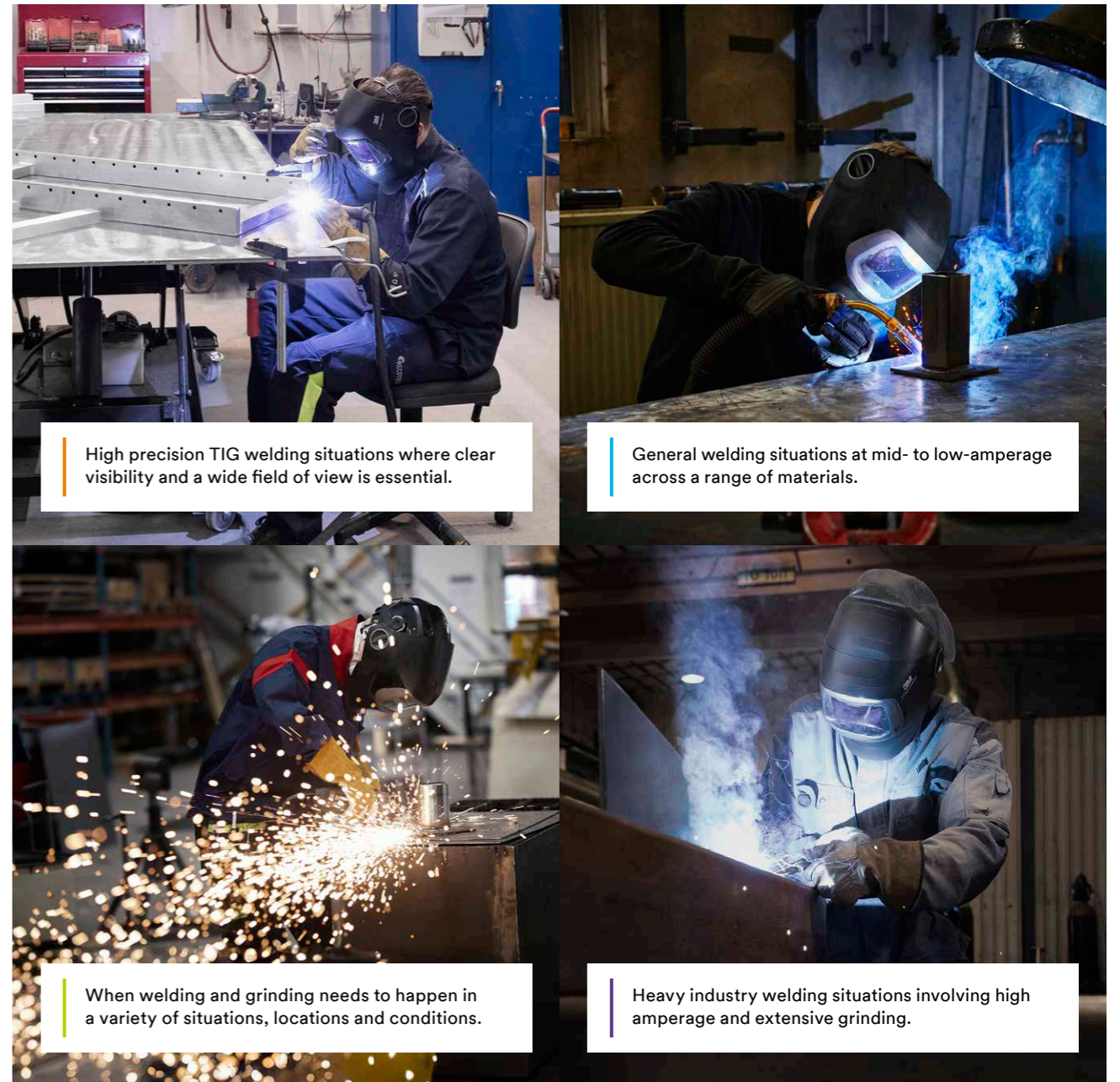
Welder safety and productivity as the key priority



A wide range of accessories allowing configuration flexibility



Consumables that are common between helmets simplifying service, forecasting and inventory



High precision TIG welding situations where clear visibility and a wide field of view is essential.

General welding situations at mid- to low-amperage across a range of materials.

When welding and grinding needs to happen in a variety of situations, locations and conditions.

Heavy industry welding situations involving high amperage and extensive grinding.

## No two welders are the same

With nearly 50 years of close collaboration with welders and field-testing by professionals, we've learned that no two welders are the same – each has unique needs and preferences.

Every welding helmet we design is built around four key factors:

|                    |                   |
|--------------------|-------------------|
| <b>Reliability</b> | <b>Comfort</b>    |
| <b>View</b>        | <b>Protection</b> |

Together, these ensure you get the performance and productivity you need, with features you actually want to wear.

Each welding helmet in the G5 series is tailored to specific needs yet built on a shared platform, offering flexibility to suit various preferences while simplifying logistics and inventory.

# Great flexibility through a wide range of accessories

One major advantage of the G5 series is its modular design. A range of accessories allowing customisation of your equipment for optimal performance, comfort, and protection.

## Multiple welding filter-choices

For greater versatility 3M™ Speedglas™ offers a range of auto-darkening welding filters and passive welding filter options, designed to fit all flat-filter helmets in the series. This ensures welders can choose the best solution for their specific needs.

## A range of accessories

The helmet-mounted task light may help welders stay productive in poorly lit areas. For those who require additional protection there is both a range of extended coverage options and safety helmet adaptors that allow you to attach your welding helmet to selected 3M safety helmets.



G5-02

G5-03 E

G5-03 Pro

G5-03 Pro Air

G5-01

### Curved welding filter



Wide view  
G5-02

### Flat welding filters



Variable colour  
G5-01/03VC



2.5 in light state  
G5-01/03TW



Natural colour  
G5-01/03NC



Passive  
G5-01/03-Passive

### Extended protection



### Extended protection



### Task light (with battery)



Task light kit with separate rechargeable battery

### Task light (powered by 3M™ Adflo™ PAPR)



Task light kit powered by Adflo battery

### Head protection



## When less can do more

The key benefit of a modular system is that you need fewer products to meet the same demands. One welding helmet or welding filter can be used for multiple applications, reducing the need for extra equipment. This not only lowers costs it also helps to reduce inventory as well as the environmental impact. Here are two ways modularity can work for you:

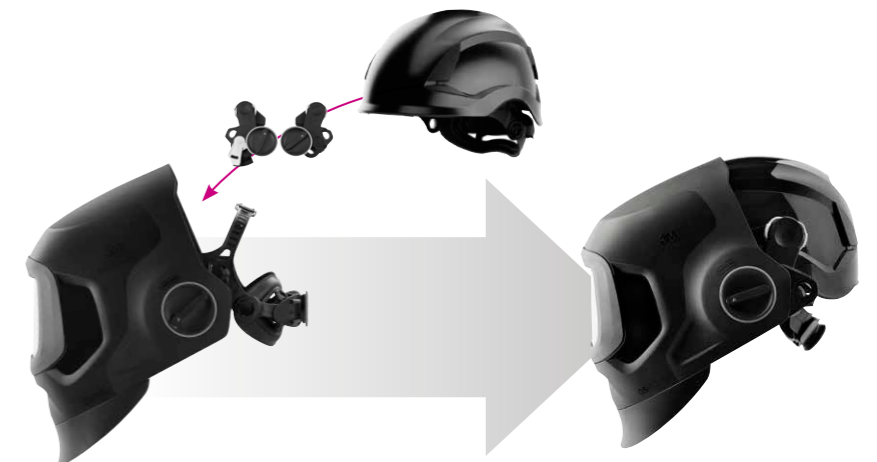
### Move your favourite welding filter between helmets

Do you sometimes need to use an air system but at other times prefer a lighter smaller welding helmet<sup>1)</sup> (with alternative respiratory protection). You can still use your favourite G5-01/03 welding filter for both welding helmets.



### Upgrade your welding helmet to a higher safety standard

Do your safety requirements change depending on the area you currently work in? With these adaptors you can easily rebuild your welding helmet<sup>2)</sup> to fit a range of 3M safety helmets to fit your need for head protection.

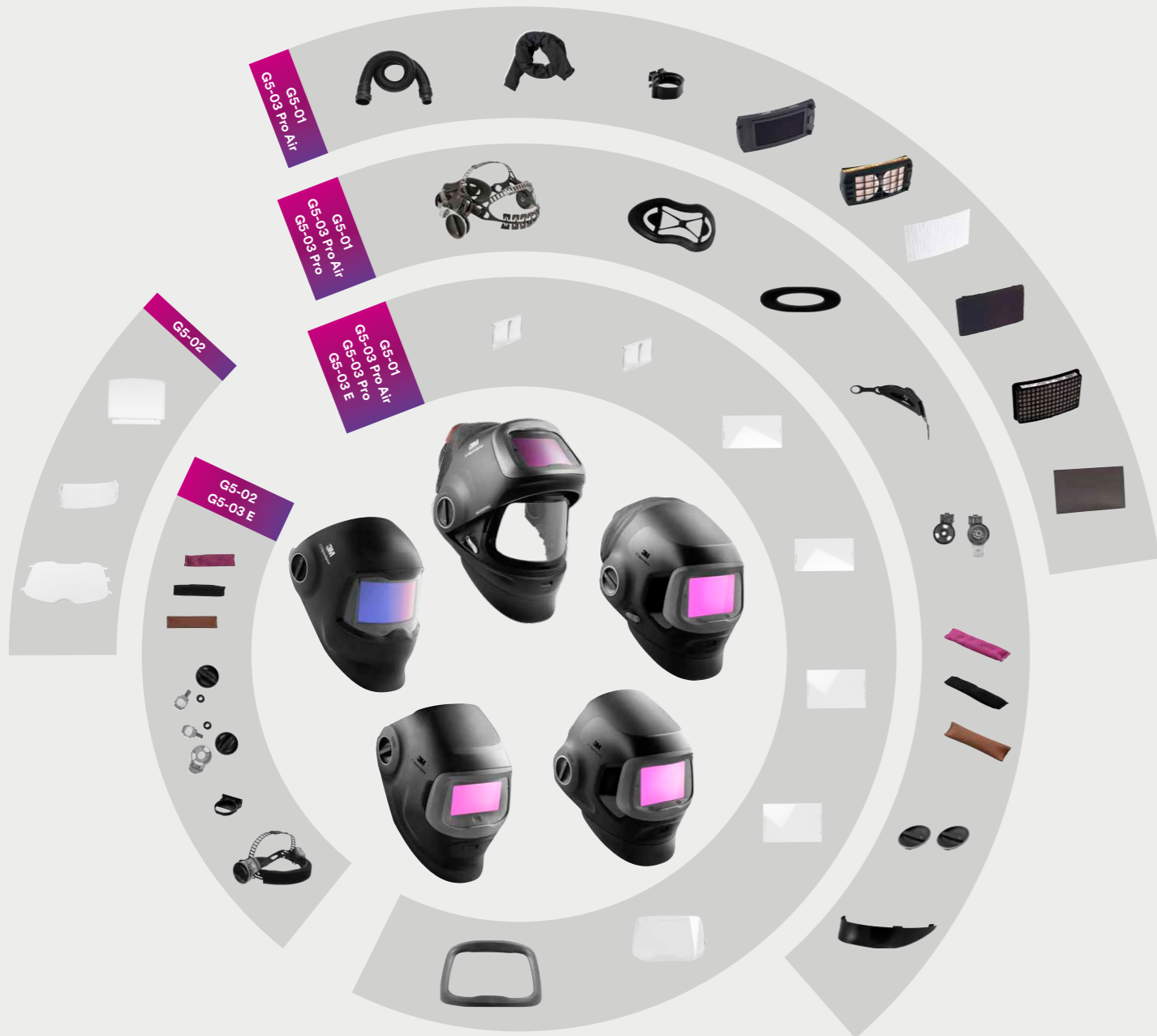


1) When not using an air system it is recommended to use alternative respiratory protection.

2) G5-03 Pro only

# Common parts for efficiency and ease

The modular design of the 3M Speedglas Generation 5 series offers a major benefit – many spare parts and accessories are compatible across all G5 helmets. This means less inventory for a workshop using multiple systems.



# The welders safety in focus

As a result of the close cooperation with welders, safety engineers and ergonomic specialists we are committed to ongoing product improvement with the welders safety and comfort as our top priority.

That is why the Speedglas brand continues to stand for: **Protection, Productivity and Quality.**

3M™ Speedglas™ Welding Helmet G5-01 and G5-03 Pro Air are certified TH3\* (CE) and APF1000 (NIOSH). This level of protection significantly reduces exposure to welding respiratory hazards when the welding helmet is used full time.

\* See user instruction, TH3 with particle filters, TH2 when used with approved gas and vapour filters and breathing tube.

# Helping to build a more sustainable welding world

Committing to high-quality, long-lasting products (as demonstrated by Stefan's story to the right) and offering a wide range of spare parts compatible with multiple products means fewer new purchases, less waste, and potentially a reduced carbon footprint. Additionally, the modular design reduces the need to stock multiple helmets for different applications.

Aligned with 3M's Pollution Prevention Pays (3P) program, which focuses on preventing pollution at the source in products and manufacturing processes rather than removing it afterward, this has, for example, resulted in a new process using high-tech lasers to etch the filter glass.

Benefits of new high-tech laser etching process:

**10%**  
reduction in water-consumption

**15%**  
reduction in electricity

Over **90%**  
reduction in chemical usage

“ Last week a customer came to our factory in Gagnef, Sweden asking if we had a replacement battery they could purchase. It turned out to be a product that is over 35 years old. As a different battery was used back then, we were unfortunately unable to help on this occasion. However, this story is an example of our products: robustness, durability, reliability and very much sustainability.”

**Stefan Henriksson**  
Global Product Manager Welding  
November 2024



This welding filter from the late 80s was still going strong until it ran out of battery.

The Speedglas generation 5 welding helmets

# The right equipment for each job



**Heavy duty  
welding and grinding**

3M™ Speedglas™  
Welding Helmet G5-01

**TIG  
welding**

3M™ Speedglas™  
Welding Helmet G5-02

**Versatile  
welding and grinding**

3M™ Speedglas™  
Welding Helmet G5-03



**Learn more about the G5 helmets helmets**

Scan this QR-code or go to [youtube.com/3MSpeedglas](https://youtube.com/3MSpeedglas)

## **⚠ WARNING**




Product standards determine what type and level of protection is provided. Check the technical information and product markings to determine the product standard. This information should be considered but not in isolation when consulting your risk assessment. Always consider local regulation and requirements. The result of the risk assessment should determine if the PPE is an appropriate control. For more information see the user instructions or contact 3M for technical support.

Our range of products, models and colors may vary depending on region and year. For an accurate list of available products visit [www.3M.com](http://www.3M.com) or contact your local supplier.



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