



Welding Safety Product Catalogue



AWS was established in 1994 and has played a key role in the welding industry ever since.

As an advocate for welders' safety in Australia and New Zealand, AWS has published numerous Welding Safety White Papers, Welding Industry Reports, and Welding Fume Control Frameworks. AWS is a company that specialises in welding safety equipment, and it is our goal to raise awareness on the important issues that welders face.

As the sole agent for the 3M™ Speedglas™ range of welding helmets with integrated respiratory protection, the Translas on-gun welding fume extraction range, the Nederman and Bomaksan range of portable local exhaust ventilation (LEV) fume protection systems, the range of Guide welding gloves, and a 3M personal protective equipment wholesaler, AWS are extremely well placed to help businesses understand the different types of product controls that can be introduced into the workplace to better protect welders and those who work in close proximity to welders.

AWS can assist and support workplaces to navigate and understand every level of the hierarchy of control and understand their responsibilities as an employer of welders, relevant to eye, face, head, hearing, hand, and respiratory protection.

For more information on welding fume monitoring, welding PPE, or welding fume LEV extraction options, please contact AWS.



The Hierarchy of Control

How AWS can help



ELIMINATION & SUBSTITUTION

- Occupational Hygienists
- Fume Monitoring
- Practical Guidance



ENGINEERING CONTROLS

- On Gun Fume Extraction
- Portable Local Exhaust Ventilation
- Fixed Local Exhaust Ventilation



ADMINISTRATIVE CONTROLS

- Practical Guide to Welding Fume Control
- SPATA: Speedglas Powered Air Training Academy
- Student Powered Air Program



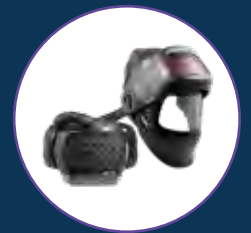
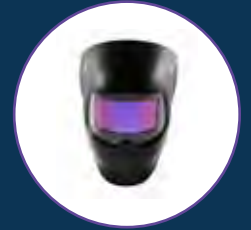
PERSONAL PROTECTIVE EQUIPMENT

- Welding Helmets: Respiratory & Non-Respiratory
- Eye, Face, Head, Hearing, Respiratory Protection
- Hand Protection

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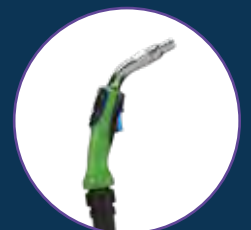
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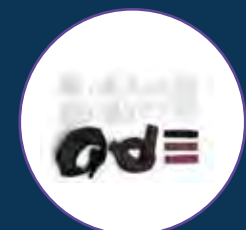
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Speedglas™
Welding Safety

Why 3M™ Speedglas™?

The #1 brand in welders' PPE

Trust in a brand can't be built overnight. It takes years to become known and even longer to be trusted. In 1981, over 40 years ago, Speedglas™ released the first ever auto-darkening welding helmet and has consistently set the benchmark ever since.

While other products and brands have come and gone, the 3M™ Speedglas™ brand, guided by welders, has continued to drive innovation and lead from the front.

Made in Sweden, Speedglas is the brand of choice for professional welders and remains the world's leading brand of personal protective equipment for welders.

Welding Helmet Selector Tool

Which welding helmet best suits your needs?
Try our **Welding Helmet Selector Tool!**





SHOWN ADF

How to select a welding helmet

Do You Require Respiratory Protection?

NO



The 3M™ Speedglas™ range of non-respiratory welding helmets include many world-first innovations. Experience curved auto-darkening technology, Speedglas True-View optics, the largest viewing area available, powerful arc detection, and industry leading comfort.

Pages 10 - 21

YES



As one of the most popular PAPR systems in the world, Speedglas Welding Helmets with the Adflo Powered Air Purifying Respirator are designed to provide welders with air at least 50 times cleaner than they would breathe if unprotected.

Pages 22 - 34

UNSURE



Recognising welding fume as carcinogenic and the other associated health risks should encourage all employers of welders to review their risk assessments and revise their control measures.

*Welding fume is serious.
Action is required.*

If you are unsure where to start, the Practical Guide to Welding Fume Control has been launched to give workplaces clear and practical advice that can help to keep welding fume exposure to an acceptable level.



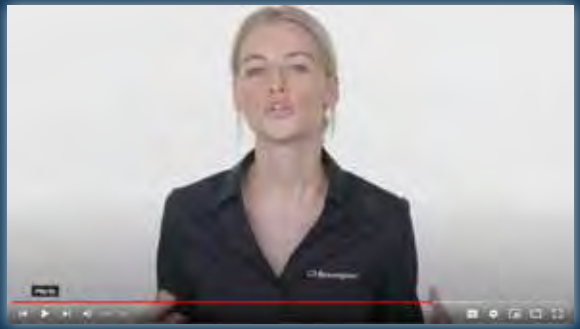
Download the Practical Guide to Welding Fume Control for FREE:

www.apexweldingsafety.com.au/welding-safety-white-papers



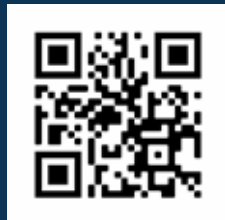
Learn More About Welding Fume

To learn more about welding fume, watch as AWS Occupational Hygienist, Terry Gorman, takes you through a video module on “Welding Fume and Exposure Limits”.



Learn More About Respiratory Protection

Watch as AWS Online Training Specialist, Sarah Louise, takes you through the 3M Speedglas Respiratory Welding Helmet options.





3M™ Speedglas™ Welding Helmets - Non-Respiratory



3M™ Speedglas™ Welding Helmet G5-02

- World's first curved auto-darkening welding lens
- Largest ever Speedglas viewing area (100% wider field of view)
- Advanced Speedglas True-View Technology (light state 2.5)
- Slimmer lightweight profile
- Optimised for professional TIG welding



Shade range

2.5/8-12

Viewing area

76x150mm + Curved

Page Number

Pages 12-13



3M™ Speedglas™ Welding Helmet 9100

- Professional fixed-front welding helmet with extra-large viewing area
- External grind, memory mode, and SideWindows
- Speedglas True-View Technology
- Optimised for professional welders



Shade range

3/5, 8-13

Viewing area

73x107mm + SideWindows

Page Number

Pages 14-15



3M™ Speedglas™ Welding Helmet 9100 FX

- Professional flip-up welding helmet with extra-large viewing area
- Clear grinding visor and SideWindows
- Speedglas True-View Technology
- Optimised for professional welders, heavy-duty grinding applications and low light conditions



Shade range **11**

3/5, 8-13

Viewing area

73x107mm + SideWindows

Page Number

Pages 16-17



3M™ Speedglas™ Welding Helmet 9100 QR

- Safety helmet with quick-release mechanism
- Professional fixed-front welding helmet with extra-large viewing area
- External grind, memory mode, and SideWindows
- Speedglas True-View Technology
- Optimised for professional welders who require head protection



Shade range

3/5, 8-13

Viewing area

73x107mm + SideWindows

Page Number

Pages 18-19



3M™ Speedglas™ Welding Helmet 9002NC

- Premium fixed-front welding helmet with large viewing area
- Speedglas True-View Technology
- Slim lightweight profile
- Optimised for welders who prefer a narrow helmet profile



Shade range

3/8-12

Viewing area

55x107mm

Page Number

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3M™ Speedglas™ Welding Helmet 100

- Fixed-front welding helmet with standard viewing area
- Suitable for welding and grinding
- Slim lightweight profile featuring six graphic designs
- Optimised for welders who require a reliable all-rounder

Shade range

3/8-12

Viewing area

44x93mm

Page Number

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Hazards of Welding Fume

Welding fume is serious. Action is required.

see page 24



Technical Data Information

Compare these Non-Respiratory Helmets by feature.

see page 53

NEW 3M™ Speedglas™ Welding Helmet G5-02

The world's first curved auto-darkening lens



150mm

Our previous largest Speedglas ADL

3M™ Speedglas™ curved ADL G5-02

100% wider ADL field of view

Wider views in a slimmer helmet



NEW Brightest ever Speedglas light state (2.5) enhances True-View optics.

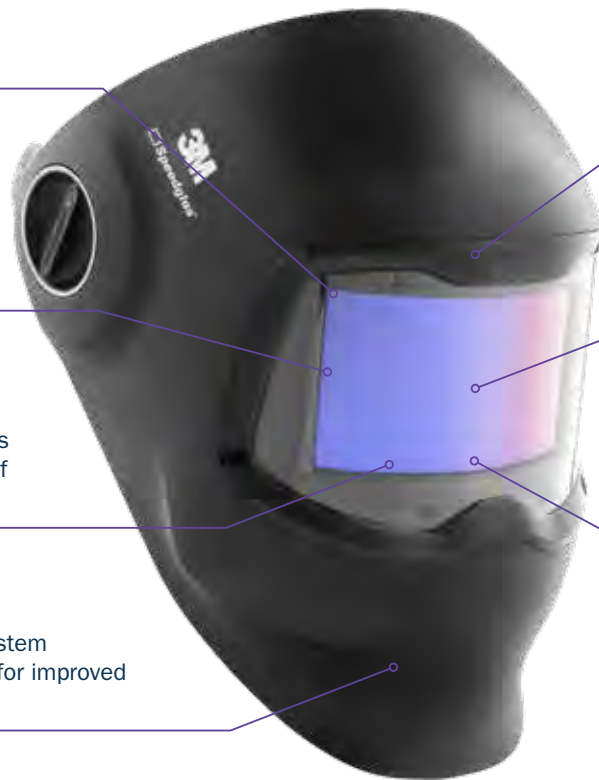
Super lightweight design follows the curvature of the head for improved weight distribution.

Optimised for low amp TIG welding, the G5-02 lens has 4 arc sensors which react down to an industry-leading 1 amp.

Curved lens and slimmer profile help reduce distracting reflections and glare inside the helmet.

NEW Largest Speedglas lens ever with 100% wider field of view with shades 2.5/8-12.

Lens is Bluetooth® enabled to be securely paired with a smartphone, allowing you to select shades, sensitivity and up to 4 pre-set memory modes from the palm of your hand.



NEW Exhaled air venting system reduces heat and humidity for improved comfort.



Made in Sweden, backed by a revolving 3 + 1 year warranty, on the welding lens.

All technical data can be found on page 53

Why curved?

Feedback from professional TIG welders was unanimous; a wide view was much preferred over a taller view.

The only way to achieve wider views without making the helmet wider was by inventing a curved welding lens: a design that has taken 20 years to perfect!



3M™ Speedglas™ Welding Helmet G5-02
Part Number: 62 11 20

Setting a new world standard for precision viewing, the G5-02 is built for TIG welders doing high-performance, critical work.

3M™ Speedglas™ Welding Helmet 9100XXi

3M™ Speedglas™ 9100XXi



Simplify your workflow

The 9100XXi features external controls – enabling convenient, 'gloves-on' movement between grinding and two customised memory settings with the press of a button.

Increased range of vision

Peripheral SideWindows offer a wider view, allowing you to see previously hidden peripheral hazards.

Versatility at your fingertips

Weld, Cut, Grind, Hidden Arc, Outdoor, Passive and Tack - all with the highest possible optical classification.

Upgrade your protection for less

The 3M Speedglas 9100XXi welding lens used in this helmet is also compatible with the entire Speedglas 9100 respiratory welding helmet range. This means if you don't currently require a welding helmet with integrated respiratory protection, but feel you may in the future, the 9100XXi lens will allow you to upgrade to powered or supplied air respiratory protection at a fraction of the price when the time comes.

High performance and comfort



Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

High comfort head harness with two crown straps for optimum balance.

SideWindows: Shade 5 windows enhance your peripheral vision and widen your overall field of view.

Speedglas™ Welding Lens 9100XXi with True-View for crisp colour and contrast.

Heat reflecting silver front with an external button for grind and welding memory settings.

Extra-large viewing area (73 x 107mm + SideWindows) with shades 3/5, 8-13.

Lens reacts down to an industry-leading 1 amp.

Auto-On and equipped with the all-important centre sensor for TIG welding.

Made in Sweden, backed by a revolving 3 + 1 year warranty, on the welding lens.

Increased coverage for ears and neck.

All technical data can be found on page 53

Easy switching

External grind mode allows you to seamlessly switch between welding and grinding tasks without the need to lift your helmet.

With a press of the external button you have activated grind mode. Press it again and you're back ready to weld.

3M™ Speedglas™ Welding Helmet 9100XXi
Part Number: 50 18 26



3M™ Speedglas™ Welding Helmet 9100XXi FX



Well-balanced design

The 9100 FX is balanced in both ergonomics and functionality. A welding helmet and grinding visor that sits perfectly balanced for all-day wear.

Continuous protection

Easy switching between welding and grinding means there is no need to remove your helmet - you're always protected.

Expand your view

A quick lift of the front cover and you get a big, 170x100mm, clear view – perfect for precision grinding, even in low light conditions.

More natural colour and contrast

The Speedglas welding lens 9100XXi helps you see your welds in a new light, providing more contrast and natural-looking colours.

Upgrade your protection for less

The 3M Speedglas 9100XXi welding lens used in this helmet is also compatible with the entire Speedglas 9100 respiratory welding helmet range. This means if you don't currently require a welding helmet with integrated respiratory protection, but feel you may in the future, the 9100XXi lens will allow you to upgrade to powered or supplied air respiratory protection at a fraction of the price when the time comes.

Flip up to grind with a large clear view



Speedglas™ Welding Lens 9100XXi with Auto-On and True-View for crisp colour and contrast.

Lens reacts down to an industry-leading 1 amp.



High comfort head harness with two crown straps for optimum balance.

Extra-large viewing area (73 x 107mm + SideWindows) with shades 3/5, 8-13.

The entire helmet can also be locked in the perfectly balanced, up, parked position.

Smooth flip-up function with curved 170x100 mm clear grinding visor.

SideWindows: Shade 5 windows enhance your peripheral vision and widen your overall field of view.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Made in Sweden, backed by a revolving 3 + 1 year warranty, on the welding lens.



All technical data can be found on page 53

The perfect combination

A flip-up combination of an auto-darkening welding helmet and clear protective visor gives you a perfectly balanced and highly functional helmet for comfortable, all-day use.

Seamlessly switch between welding and grinding!

3M™ Speedglas™ Welding Helmet 9100XXi FX
Part Number: 54 18 26



Additional spark and spatter resistant head, neck and ear covers are available as accessories. See page 49

3M™ Speedglas™ Welding & Safety Helmet 9100XXi QR



Adaptable head protection

A Quick-Release rail allows you to easily attach or remove your 9100 QR welding helmet, while keeping your safety helmet on.

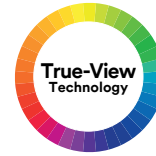
Your hearing matters

Safety helmet is designed for use with 3M Peltor Class 5 earmuffs - giving you constant, high-level hearing protection.

Upgrade your protection for less

The 3M Speedglas 9100XXi welding lens used in this helmet is also compatible with the entire Speedglas 9100 respiratory welding helmet range. This means if you don't currently require a welding helmet with integrated respiratory protection, but feel you may in the future, the 9100XXi lens will allow you to upgrade to powered or supplied air respiratory protection at a fraction of the price when the time comes.

Welding and safety helmet



Even with a gloved hand, you can easily attach or remove the 3M™ Speedglas™ Welding Helmet 9100 QR.

The Quick Release Rail allows you to attach the Speedglas auto-darkening welding helmet 9100 QR to most types of safety helmets.



Designed from inception to accommodate 3M™ Peltor™ Earmuffs (Class 5).

Extra-large viewing area (73 x 107mm + SideWindows) with shades 3/5, 8-13.

Speedglas™ Welding Lens 9100XXi with Auto-On and True-View for crisp colour and contrast.

Lens reacts down to an industry-leading 1 amp.

SideWindows: Shade 5 windows enhance your peripheral vision and widen your overall field of view.

Made in Sweden, backed by a revolving 3 + 1 year warranty, on the welding lens.

All technical data can be found on page 53

Need head protection?

The 9100XXi QR offers excellent head protection via a Quick-Release safety helmet.

Even with a gloved hand, this welding helmet can be seamlessly attached to or detached from a hard hat for flexible, world class protection!

3M™ Speedglas™ Welding Helmet 9100XXi QR
Part Number: 50 36 26



Simply squeeze to attach or remove your welding helmet - even with gloved hands.

3M™ Speedglas™ Welding Helmet 9002NC



Slim and lightweight, with precision optics

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

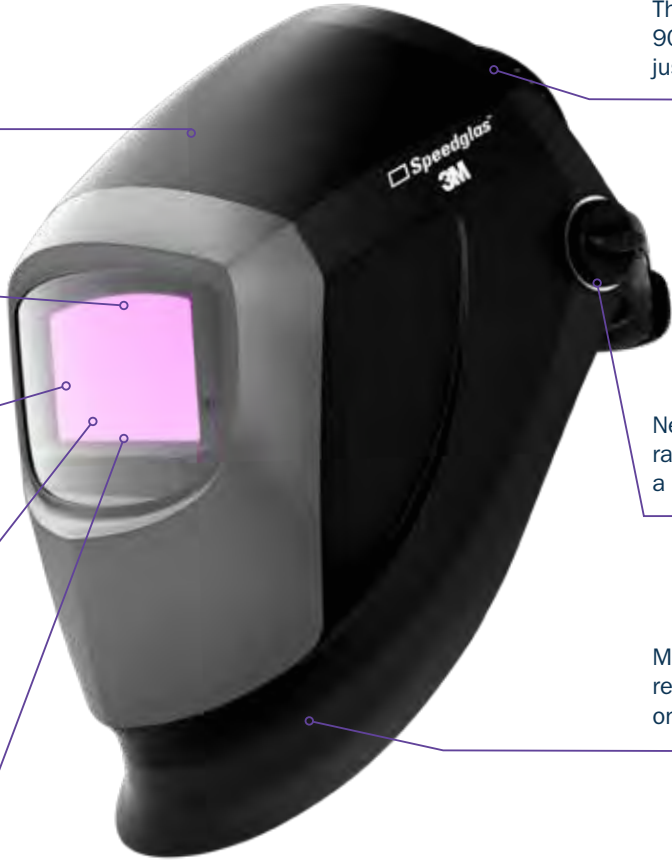
The super-light, slim profile 9000 Series helmet weighs just 485 grams.

Lens reacts down to an industry-leading 1 amp and has the highest optical classification (1/1/1).

Large 55 x 107mm viewing area with shades 3/8-12.

Speedglas™ 9002NC lens is compatible with existing Speedglas 9000 Series helmets.

Upgraded welding lens now has True-View for improved colour and contour recognition.



New head harness with ratchet mechanism provides a comfortable custom fit.

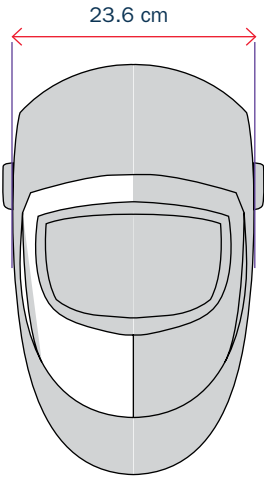
Made in Sweden, backed by a revolving 3 + 1 year warranty, on the welding lens.

All technical data can be found on page 53

Freedom of movement

Shield width

The slim profile offers increased freedom of movement in tight spaces.




A legend has returned

Many welders think the classic Speedglas helmet 9000 has the ideal blend of shape and balance. The 9002NC welding lens is compatible with all existing Speedglas 9000 series welding helmets!

To see your welds in a new light, upgrade to the 3M™ Speedglas™ 9002NC with elite True-View optics for superior colour and contrast.

3M™ Speedglas™ Welding Helmet 9002NC
Part Number: 40 13 85

Image is everything!



Appropriate for most arc welding processes including Stick, MIG and TIG welding.

Now with advanced TST (TIG Sensor Technology).

Shade 3 grind mode.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Improved head harness with smooth ratchet mechanism for precise tightening and comfort.

44 x 93mm viewing area with shades 3/8-12.

Built-in holder for magnifying lenses. Attaching the lens is easier and the fit is more accurate.

Choice of six quality Speedglas helmet graphics (pictured: 752820).

New delay function allows you to set the dark-to-light opening time.

Made in Sweden, backed by a revolving 3 + 1 year warranty, on the welding lens.

High-end performance

The Speedglas™ welding helmet series 100 is equipped with industry-leading features, allowing you to take advantage of Speedglas' optical clarity at a highly-affordable price.

All technical data can be found on page 53

- 3M™ Speedglas™ 100B (3/10-12)**
Part Number: 75 11 14
- 3M™ Speedglas™ 100V Ninja**
Part Number: 75 11 20
- 3M™ Speedglas™ 100V Trojan Warrior**
Part Number: 75 16 20
- 3M™ Speedglas™ 100V Xterminator**
Part Number: 75 22 20
- 3M™ Speedglas™ 100V Ice Hot**
Part Number: 75 25 20
- 3M™ Speedglas™ 100V Skull**
Part Number: 75 28 20
- 3M™ Speedglas™ 100V Motor**
Part Number: 75 29 20





3M™ Speedglas™ Welding Helmets - Respiratory



3M™ Speedglas™ Welding Helmet G5-01VC

- Heavy duty flip-up welding helmet with 15% larger grinding visor
- NEW Variable Dark State Colours and True-View Technology
- NEW helmet air duct system for climate control
- NEW Bluetooth® connectivity and optional task light
- Heavy duty Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)



Shade range

3/5, 8-14

Viewing area

73x109mm

Page Number

Pages 26-27



3M™ Speedglas™ Welding Helmet G5-01TW

- Heavy duty flip-up welding helmet with 15% larger grinding visor
- Speedglas True-View Technology
- NEW helmet air duct system for climate control
- NEW Bluetooth® connectivity and optional task light
- Heavy duty Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)



NEW

Shade range

3/5, 8-13

Viewing area

73x109mm

Page Number

Pages 26-27



3M™ Speedglas™ Welding Helmet 9100 Air

- External grind button with memory modes
- Speedglas True-View Technology
- Peripheral SideWindows
- Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)



Shade range

3/5, 8-13

Viewing area

73x107mm + SideWindows

Page Number

Pages 28-29



3M™ Speedglas™ Welding & Safety Helmet 9100 MP Air

- Integrated safety helmet offers fully compliant head protection
- Flip-up welding helmet with clear grinding visor
- Speedglas True-View Technology
- Peripheral SideWindows
- Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)



Shade range

3/5, 8-13

Viewing area

73x107mm + SideWindows

Page Number

Pages 30-31



3M™ Adflo™ Powered Air Purifying Respirator

The award-winning Adflo is the welder's PAPR of choice.

see page 32



Supplied Air Respiratory Protection

Also available with the 3M Versaflo Supplied Air Regulator V-500E.

see page 36



Technical Data Information

Compare the Respiratory Welding Helmets by feature.

see page 52



Watch a video on Welding Fume here!

Welding Fume Is Serious. Action Is Required.

The important point to understand is that while the risk posed by welding fume is serious, keeping yourself safe can be straightforward.

The 2017 IARC reclassification of welding fume as 'carcinogenic to humans' simply confirmed what was already known – welding fume is extremely bad for health and workplaces must protect their workers. Excessive exposure to welding fume can cause multiple types of cancer, including lung, larynx, and urinary tract.

'Welders present, on average, a 43% increased risk of lung cancer when compared with those who have never welded or been exposed to welding fume'¹. 'This increased risk of lung cancer is regardless of the type of steel welded, the welding process and independent of exposure to smoking'¹. Precedent for workers' compensation based on a link between welding fume and cancer was established in the Australian courts back in 2014, opening the door for future compensation claims.

Aside from cancer, welding fume can also cause serious long-term health effects like lung function

Simple Takeaway

**Welding fume is serious,
action is required.**

abnormalities, including bronchial asthma, chronic obstructive pulmonary disease (COPD), pneumoconiosis and other pulmonary fibrosis, as well as stomach ulcers, kidney damage and nervous system damage.

Recognising welding fume as carcinogenic and the other associated health risks should encourage all employers of welders to review their risk assessments and revise their control measures.

Welding fume is serious, action is required.

There is a NEW Workplace Exposure Standard for Welding Fume in Australia!

In September 2023, SafeWork Australia voted to immediately lower the Workplace Exposure Standard for Welding Fume from **5mg/m³** to **1mg/m³**.

In January 2024, Work Health and Safety Ministers endorsed the decision to change legislation in Australia. All Australian workplaces must now comply with the new lower limit by law.

The exposure standards in Australia and New Zealand 'do not identify a dividing line between a healthy or unhealthy working environment'². They simply establish a legal maximum upper limit. Therefore, as per their legal responsibility, employers must reduce welding fume exposure to as low as reasonably practicable.

The 2017 reclassification of welding fume as carcinogenic prompted many to rethink and challenge what was historically considered 'normal'.

The 2019 statistical analysis concluding that welders have up to a '43% increased risk of lung cancer'¹ regardless of the type of steel welded, the welding process or time-period is of serious public health relevance.

Now, the new welding fume workplace exposure limit in Australia should act as the trigger at your workplace to introduce effective welding fume controls to ensure you are fulfilling your legal responsibility.

For a step-by-step summary on how to get started, contact AWS (www.apexweldingsafety.com.au).

The Practical Guide to Welding Fume Control

For a clear outline of the risks, as well as actionable guidance based specifically on the welding industry, download the Practical Guide to Welding Fume Control.



Download the Practical Guide for FREE here!

www.apexweldingsafety.com.au/welding-safety-white-papers



PLUS: Watch a video on Minimising Welding Fume Exposure here!

NEW 3M™ Speedglas™ G5-01 with Heavy-Duty Adflo™ PAPR

Take Control

Based on extensive input from welders working at high amperages who need to grind frequently, the 3M™ Speedglas™ Heavy-Duty Welding Helmet G5-01 is created to be adaptable to an individual's needs and situation.

Variable Colour Technology



Heavy-Duty Protection



Climate Control



Configurable Coverage



Optional Task Light



Bluetooth Connectivity



Watch the Speedglas G5-01 product demo video here!

NEW 3M™ Speedglas™ G5-01 with Heavy-Duty Adflo™ PAPR



3M™ Speedglas™ G5-01

Adjust your welding helmet, not yourself

Speedglas™ Welding Lens G5-01VC with Auto-On, True-View and **NEW** Variable Colour Technology.

Extra-large viewing area (73x109 mm) with shades 3/5, 8-14.

Adjust the amount and direction of the airflow inside your helmet with **NEW** Climate Control.

Smooth flip-up function reveals largest ever Speedglas clear grinding visor (170x104 mm).

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.



NEW Configurable extra protection options to suit your specific needs.

Lens reacts down to an industry-leading 1 amp.

NEW Bluetooth® connectivity enables control of your welding lens settings directly from your smart phone.

NEW Removable flip-up component reduces overall helmet weight by 35% for extended non-welding applications.



NEW Optional helmet-mounted task light provides hours of powerful lighting for work in poorly lit spaces.

Choose how you see your weld

To provide better vision and more control of your weld puddle, the Speedglas G5-01VC includes Variable Colour Technology!

Choose between natural (A), cool (B) or warm (C) tones for your dark state, depending on which offers the best viewing contrast for your welds and the most comfort for your eyes.

3M™ Speedglas™ G5-01VC with Heavy Duty Adflo™ PAPR
Part Number: 61 78 30

Also available with G5-01 TW Lens:
Shade Range 3/5, 8-13, No Variable Colour Technology

3M™ Speedglas™ G5-01TW with Heavy Duty Adflo™ PAPR
Part Number: 61 78 20



All technical data can be found on page 52

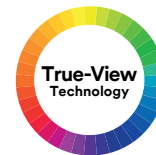
3M™ Speedglas™ 9100XXi Air with Adflo™ PAPR



Watch the Speedglas 9100 Air product demo video here!

3M™ Speedglas™ 9100XXi Air with Adflo™ PAPR

Clean, comfortable, and lightweight protection



Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Speedglas™ Welding Lens 9100XXi (73 x 107mm) with Auto-On and True-View for crisp colour and contrast with shades 3/5, 8-13.

Heat reflecting silver front with an external button for grind and welding memory settings.

The all-new face seal follows the contours of both the helmet and your face.

The air duct is an integral part of the helmet, providing a refreshing flow of air across the entire breathing zone of the helmet.



High comfort head harness with two crown straps for optimum balance.

SideWindows: Shade 5 windows enhance your peripheral vision to widen your overall field of view.

An innovative quick-release attachment enables one-handed breathing tube connection and release.



Middle airflow channel to keep your welding lens fog free.

Two side channels deliver a smooth flow of fresh air directly to the breathing zone.

Seamless switching

Switch between grind mode and two pre-set welding memory modes with the push of an external button. This allows you to easily move between applications while maintaining your positive pressure respiratory seal.

3M Speedglas Welding Helmet 9100XXi Air with Adflo™ PAPR (8 Hour Battery)
Part Number: 50 77 26

3M Speedglas Welding Helmet 9100XXi Air with Heavy Duty Adflo™ PAPR (12 Hour Battery)
Part Number: 507726HD

All technical data can be found on page 52

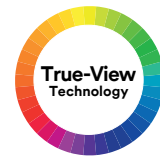
3M™ Speedglas™ 9100XXi MP Air with Adflo™ PAPR



Watch the Speedglas 9100 MP Air product demo video here!

3M™ Speedglas™ 9100XXi MP Air with Adflo™ PAPR

Five levels of welding protection



Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Lens reacts down to an industry-leading 1 amp.

Speedglas™ Welding Lens 9100XXi (73 x 107mm) with Auto-On and True-View for crisp colour and contrast with shades 3/5, 8-13.

Smooth flip-up function with curved 170x100 mm clear protective visor, increasing your peripheral vision to 180°.

The safety helmet is made from heat-resistant polycarbonate and conforms to Australian and New Zealand Standard AS/NZS1801 for head protection.



Designed from inception to accept 3M™ Peltor™ H31 Earmuffs (Class 4).

SideWindows: Shade 5 windows enhance your peripheral vision to widen your overall field of view.

An innovative quick-release attachment enables one-handed breathing tube connection and release.



Weld with confidence

Combining eye, head, face, hearing and respiratory protection, this highly integrated welding and safety helmet will enable you to carry out your welding with absolute comfort and confidence!

3M Speedglas Welding Helmet 9100XXi MP Air with Adflo™ PAPR (8 Hour Battery)
Part Number: 57 77 26

3M Speedglas Welding Helmet 9100XXi MP Air with Heavy Duty Adflo™ PAPR (12 Hour Battery)
Part Number: 577726HD



3M™ Adflo™ Powered Air Purifying Respiratory Protection

'Welding helmets with integrated powered air purifying respirators (PAPR) are the most widely used form of respiratory protection amongst welders in Australia and New Zealand'³ and are mandatory within many businesses.

They have a Required Minimum Protection Factor (RMPF) of 50, meaning that they supply breathing air a minimum 50 times cleaner than the welder would otherwise be breathing unprotected and can also protect the welders' eyes and face from radiation and high velocity particles.

With a flip-up welding helmet with powered air respiratory protection, welders can have completely clear and uninhibited views of their workpiece and surroundings while maintaining their desired level of respiratory protection with no breathing resistance. The powered air respirator goes where the welder goes, allowing unrestricted movement around the workplace with clear vision, comfort, and uninterrupted eye, face and respiratory protection.

PAPRs can provide protection to welders using the most common materials (aluminium, steel, stainless steel, galvanised steel etc.) and applications (MMA, TIG, GMAW, FCAW, SAW) where there is an environment with good ventilation and/or extraction.

The 3M Adflo PAPR is suitable for use with the complete Speedglas Respiratory Welding Helmet Range (pages 26-31).



Mobile and adaptable respiratory protection

3M™ Adflo™ Powered Air Purifying Respirator (PAPR)

As one of the most popular respirators of its kind in the world, the Adflo™ Powered Air Purifying Respirator is designed to provide a constant nominal airflow rate of 170/200 litres per minute, regardless of the battery's charge or the particle loading of the filter.

With its slim profile, the Adflo respirator offers excellent lightweight, adaptable and easy-to-use respiratory protection.

PLUS Heavy Duty Adflo Available



| Technical Data | 3M™ Adflo™ Powered Air Respirator |
|---|---|
| Approvals Respiratory Protection | Conforms to AS/NZS1716 |
| Required Minimum Protection Factor (RMPF) ¹⁾ | 50 |
| Airflow Standard Airflow Plus | 170 litres/minute 200 litres/minute |
| Battery: Charging time | Li-ion with rapid charge (0-80% in an hour) ²⁾ 4.5 hours (standard), 5.5 hours (heavy duty) |
| Operating hours | 8 hours (standard) or 12 hours (heavy duty) |
| Weight Respirator | 960 grams |
| Noise level dB | Max 75 dB |
| Belt | Leather 75-115cm |

Gas and odour filters are available as an optional extra.
 1) For mechanically and thermally generated particles.
 2) Standard battery will be 80% charged (6.4 hours run time) in approximately one hour.
 Heavy duty battery will be 80% charged (9.6 hours run time) in approximately one hour.

Award-winning protection

Since its launch, the 3M™ Adflo™ powered air respirator has become synonymous with welders' respiratory protection. The system is designed to meet the specific needs of welders.

Upgraded features

The new Li-ion Adflo respirator is over 15% lighter[^] and has one-hour rapid charge. A self-adjusting quick-release breathing tube allows for simple one handed connection and release.

Clean air to breathe

Constant, clean air flows directly into your breathing zone. Choose between 170 litres per minute or 200 litres per minute (for hot, humid jobs) with the push of a button.

Adaptable filtration

With the right type of filter, the Adflo powered respirator effectively protects against a range of gases, vapours and particles.

You only have one set of lungs

The Adflo respirator complies with Australian and New Zealand Standard AS/NZS1716 for powered air respirators and offers a Required Minimum Protection Factor (RMPF) of 50 for mechanically and thermally generated particles.

Built to last

Choose either the standard 8 hour battery or a heavy-duty Adflo battery, which can offer up to 12 hours continuous protection.

[^] When compared to the previous Adflo PAPR system that featured a nickel metal hydride battery.

Cooler, cleaner and more comfortable welding

With the right type of filter, the Adflo respirator helps effectively protect you against both particles and gases – all in one system. Here's a summary of the composite parts that make up an Adflo PAPR unit:

Shown here: 3M™ Adflo™ Powered Air Respirator connected to a 3M™ Speedglas™ Respiratory Welding Helmet.

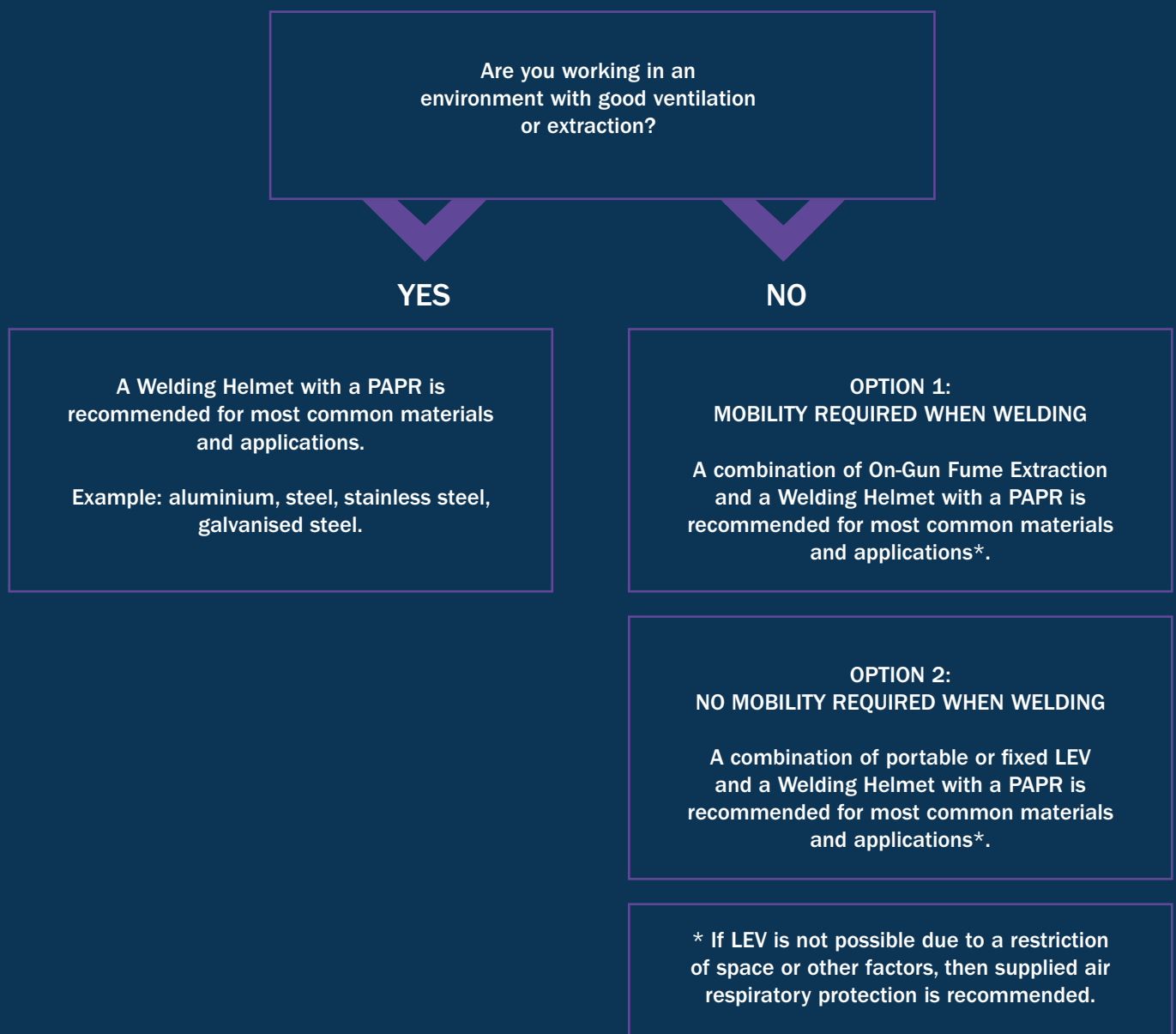
- A** **Filter cover:** holds the spark arrestor and filters.
- B** **Spark arrestor.**
- C** **Pre-filter:** increases the service life of the particle filter.
- D** **Particle filter:** high efficiency particulate filtration.
- E*** **Gas filter:** (A1) captures organic gases and vapours. Gas filters sold separately.
- F*** **Odour filter:** removes unpleasant smells (not needed if a gas filter is installed); sold separately.
- G** **Li-ion battery:** fully charges in 4.5 hours (standard) or 5.5 hours (heavy-duty). Expected operating time is 8 hours (standard) and 12 hours (heavy-duty) with new particle filter, new fully-charged battery and a standard flow level.
- H** **Brushless motor:** with an average life three times longer than conventional motors.
- I** **Filter indicator:** indicates the status of the particle filter.
- J** **Airflow Plus:** for hot, humid jobs you can increase the airflow from 170 l/min to 200 l/min with the push of a button.
- K** **Breathing tube:** self-adjusting or heavy duty rubber.
- L** **Exclusive airflow pattern:** evenly distributes filtered air throughout the entire breathing zone of the helmet. The intelligent turbo unit keeps the airflow rate at a constant, preset level. A diffuser spreads out the airflow pattern for your maximum comfort.
- M** **Soft, flexible face seal (removed here for clarity):** creates a positive pressure environment within the helmet, keeping the surrounding pollutants at bay.



* optional

A Practical Approach to Product Controls

A combination of LEV and respiratory PPE is the most practical and effective ‘product control’ method to protect welders and surrounding workers from welding fume. Respiratory PPE is an extremely effective control to protect the welder and LEV can prevent fume building up to dangerous levels and prevents the spread of fume throughout the workplace. Respiratory PPE should always be worn by welders to complement the use of LEV. The figure below gives you practical advice on how to select product controls for full-time welders and what is most effective within the welding industry.



This chart has been provided as an example and is provided as a basic guideline only. Always consult with your Safety Engineer or an Occupational Hygienist. This chart assumes that all efforts to mitigate risk associated with welding fume through elimination and substitution have been carried out. Procedural controls (eg. minimise work conducted in restricted spaces, training, care and maintenance) should be introduced to support PPE and LEV controls. This chart does not address confined spaces as defined by AS2865 or atmospheres Immediately Dangerous to Life or Health (IDLH). If you require advice on these environments please contact AWS (www.apexweldingsafety.com.au). Consultation with a PPE and extraction expert such as AWS (www.apexweldingsafety.com.au) and an occupational hygienist is recommended to ensure your specific application, environment, materials, and limitations (space, need for mobility) are considered.



3M™ Versaflo™ Supplied Air Respiratory Protection

The range of 3M™ Speedglas™ Respiratory Welding Helmets are also available with a Supplied Air Regulator.

Breathing air is supplied to the welder via a compressor through a multi-stage filtration system.

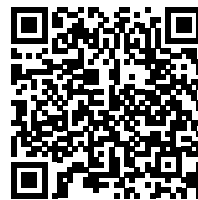
Unlike a Powered Air Purifying Respirator that filters air from the surrounding environment, a Supplied Air system delivers clean air from an external source, making it a perfect option for environments without good ventilation*.

They have a Required Minimum Protection Factor (RMPF) of 100+, meaning that they supply breathing air a minimum 100 times cleaner than the welder would otherwise be breathing unprotected.

The 3M V-500E Supplied Air Regulator is suitable for use with the complete Speedglas Respiratory Welding Helmet Range (pages 26-31).

Welding Helmets with Supplied Air

Supplied air respiratory protection offers a Required Minimum Protection Factor of 100+, supplying a minimum 100 times cleaner air than the welder would otherwise be breathing unprotected.



Explore the range of Speedglas supplied air respiratory systems!

*There must be a suitably trained and knowledgeable person doing the assessment and design of a safe system for any confined space entry.

3M™ Versaflo™ Supplied Air Regulator V-500E

Light on your belt and heavy on protection

A constant flow of clean, filtered air makes the 3M™ Versaflo™ Supplied Air Regulator V-500E ideal for working in hot and humid conditions when used in combination with the 3M™ Speedglas™ Respiratory Welding Helmet range:

Lightweight belt-mounted regulator (514g).

NEW Quick-Release mechanism smoothly connects to a breathing air filtration system.

Compliant with Australian and New Zealand Standard AS/NZS1716 for respiratory protection.



Adjustable air flow settings of 170/305 litres per minute.

Maximum noise level of 65dB, the equivalent of a typical conversation.

Required Minimum Protection Factor (RMPF) of 100+.



3M Speedglas Heavy-Duty Welding Helmet G5-01VC with V-500E supplied air regulator.
Part Number: 61 88 30



3M Speedglas Welding Helmet 9100XXi Air with V-500E supplied air regulator
Part Number: 50 88 26



3M Speedglas Heavy-Duty Welding Helmet G5-01TW with V-500E supplied air regulator
Part Number: 61 88 20



3M Speedglas Welding & Safety Helmet 9100XXi MP Air with V-500E supplied air regulator
Part Number: 57 88 26

The latest in filtration and drying technology



Pictured: A 3 Person, 4 Stage Alpha Series Portable Breathing Air Filtration System (part no. WBA34PA)

AWS now offers a comprehensive range of the new Alpha Series wall-mounted and portable breathable air systems. These are suitable for use with 3M™ Speedglas™ Welding Helmets with the 3M™ Versaflo™ V-500E supplied air regulator.

Carefully researched and tested to ensure high levels of performance, these breathable air filtration products can be installed where pure breathable compressed air is required.

The filter packages offer filtration and oil removal efficiencies down to 0.01 micron particulate size and maximum oil carryover efficiencies to 0.003 mg/m³ (0.003 ppm).

The operator is supplied particle and liquid oil free air with the added benefit of taste and odour removal for improved user comfort and performance which exceeds the requirements of AS/NZS1716.

Knowing that each user requires 6cfm/170lpm/2.88lps of breathable air, we have made the following systems in either wall mountable or portable:



1 Person System

Provides 25 cfm*

3 Person System

Provides 25 cfm*

5 Person System

Provides 35 cfm*

The systems are available in 2 stage and 4 stage filtration varieties. When deciding how many stages are required, you need to access the operator's requirement and current quality of compressed air. For more detailed information on stage selection, see page 39.

The breathing air systems should not be used when using air pressure in excess of 10 bar.

*Please note all flow rates quoted in this document are in scfm at 7 barg

Breathable Air System Stages Explained

4 Stage Breathable Air System

Where no other filtration is in place or high levels of liquid can be seen at the point where the system is to be used.



1 Comes standard with a water spinner filter that removes any bulk condensate.

2 1 micron pre-filter which removes dirt, rust and particulate matter down to 1 micron in size, whilst coalescing liquids and gives a maximum oil carryover of 0.1 ppm (does not include vapour).

3 0.01 micron particle filter which removes dirt, rust and particulate matter down to 0.01 micron in size, whilst coalescing liquids and gives a maximum oil carryover of 0.01 ppm (does not include vapour).

4 An activated carbon filter which adsorbs all smells and odours from the air and gives a maximum oil carryover of 0.003 ppm.

2 Stage Breathable Air System

Where the system is being used at a point of use where filtration (generally two filters and refrigeration dryers in many cases) is installed for general plant air.

1 0.01 micron particle filter which removes dirt, rust and particulate matter down to 0.01 micron in size, whilst coalescing liquids and gives a maximum oil carryover of 0.01 ppm (does not include vapour).

2 An activated carbon filter which adsorbs all smells and odours from the air, and gives a maximum oil carryover of 0.003 ppm.

Systems available as portable with a frame or wall mountable



Breathable Air Systems Selection Chart



When selecting a suitable system, it is important to determine:

1. How many people will run off the system?
2. Filtration stages required? (See page 39)
3. Portable or wall mountable?

| Part No. | Description |
|----------|---------------------------------|
| WBA12WMA | 1 Person, 2 Stage, Wall Mounted |
| WBA12PA | 1 Person, 2 Stage, Portable |
| WBA32WMA | 3 Person, 2 Stage, Wall Mounted |
| WBA32PA | 3 Person, 2 Stage, Portable |
| WBA34WMA | 3 Person, 4 Stage, Wall Mounted |
| WBA34PA | 3 Person, 4 Stage, Portable |
| WBA52WMA | 5 Person, 2 Stage, Wall Mounted |
| WBA52PA | 5 Person, 2 Stage, Portable |
| WBA54WMA | 5 Person, 4 Stage, Wall Mounted |
| WBA54PA | 5 Person, 4 Stage, Portable |

Elements & Couplings (to suit Alpha Systems:)

| Part No. | Description |
|----------|--|
| WBADAC | BA Element Carbon Filter (Upper) Alpha |
| WBADXA | BA Element 0.01 Micron (Lower) Alpha |
| WBAX1 | BA Element 1 Micron Pre-filter Alpha |
| WBASK3A | BA Element Water Spinner |

Breathing Air Hoses (with CEJN fittings:)

| Part No. | Description |
|-----------|-----------------------------|
| BAHOSE05M | 5 Metre Breathing Air Hose |
| BAHOSE10M | 10 Metre Breathing Air Hose |
| BAHOSE15M | 15 Metre Breathing Air Hose |
| BAHOSE20M | 20 Metre Breathing Air Hose |
| BAHOSE30M | 30 Metre Breathing Air Hose |
| BAHOSE40M | 40 Metre Breathing Air Hose |

Please Note

All 3 person systems come with one coupling part no. C103441152

For a 2 person system order another coupling and for a 3 person system order another 2 couplings.

All 5 person systems come with two couplings part no. C103441152

For a 3 person system order another coupling, for a 4 person system order another 2 couplings and for a 5 person system order another 3 couplings.

Selecting your Supplied Breathing Air Components

1

Select your preferred Welding Helmet with Supplied Air Regulator



2

Select Breathing Air Filtration System (stages/no. of people)



3

Select Breathing Air Hoses (5/10/15/20/30/40m)



4

Select your Air Compressor



5

Optional: Substitute your Supplied Air Regulator for a Vortex Cooler in hot conditions



| Part No. | Product Name |
|----------|--|
| AWS4590 | Vortex cooler incl. muffler & belt |
| | <ul style="list-style-type: none"> • Airflow range 170 - 425 l/min (6 - 15cfm) • Reduces air temperature by up to 25°C • For more information, please contact AWS |

Flow of Air

Air Compressor



Breathing Air Hose



Breathing Air Filtration System



Breathing Air Hose






















Welding Helmet with Supplied Air Regulator



Respiratory filter guides

A practical guide to respiratory protection based on material, process, and environment.

- P = Powered air purifying respirator.
- P+A = Powered air purifying respirator with a A1 gas filter installed.
- P+ODOUR = Powered air purifying respirator with an odour filter installed.
- S = Supplied air via regulator and filtration unit.

| Material to be welded | Welding method | Ventilation conditions of your working environment | | | |
|---|--|---|--|--|--|
| | | Environment with good ventilation /extraction. | Environment with limited ventilation /extraction ----- -----> increasing exposure. | Restricted space* <small>Note: this respiratory protection solution may not be suitable for Confined Spaces as defined in AS2865.</small> | |
| Aluminium | GMAW  | P | P or P+A | S | |
| | TIG  | P | P or P+A | S | |
| | PLASMA (cutting and gouging)  | P | P or P+A | S | |
| Stainless steel | GMAW/FCAW/SAW  | P | P or P+A | S | |
| | TIG  | P | P or P+A | S | |
| | MMA (stick)  | P | P or P+A | S | |
| | PLASMA (cutting and gouging)  | P | P+A or S | S | |
| Steel not coated or painted | GMAW/FCAW/SAW  | P | P | S | |
| | MMA (stick)  | P | P | S | |
| | PLASMA (cutting and gouging)  | P | P or S | S | |
| Steel (lead based paints / oil and grease present) | GMAW/FCAW/SAW  | P | P or P+ODOUR | S | |
| | MMA (stick)  | P | P or P+ODOUR | S | |
| | PLASMA (cutting and gouging)  | P | P or S | S | |
| Steel galvanised | GMAW/FCAW/SAW  | P | P or P+ODOUR | S | |
| | MMA (stick)  | P | P or P+ODOUR | S | |
| | PLASMA (cutting and gouging)  | P | P or S | S | |
| Steel coated with 2-component paints or insulated with 2-part polyurethanes (risk of isocyanates) | GMAW/FCAW/SAW  | P | P+A or S | S | |
| | MMA (stick)  | P | P+A or S | S | |
| | PLASMA (cutting and gouging)  | P | P+A or S | S | |

This chart has only been provided as an example and is provided as a basic guideline. It should not be used as the only means of selecting a respirator. Powered and supplied air respirators must never be used in atmospheres Immediately Dangerous to Life or Health (IDLH) without emergency breathing device capability (AS/NZS1715). Always consult your Safety Engineer or Occupational Hygienist.

*A 'restricted space' for the purposes of this document refers to a situation where 1) local exhaust ventilation (LEV) fume extraction is not possible due to a limitation of space, 2) general plant air (dilution) can not effectively reach the welder and 3) the space is not a confined space as defined by AS2865.

| Code | Type of filter |
|------|--------------------------------------|
| E | Acid gases. |
| A | Organic gases, boiling point > 65°C. |
| AX | Organic gases, boiling point < 65°C. |
| P | Particle filter. |
| B | Inorganic gases. |

Remarks

H = The chemical can be absorbed through the skin.
 K = The chemical can be cancer-inducing.
 S = The chemical can be a sensitiser.

- Argon and helium are inert gases which are not generally absorbed by canister type filters. These gases are not in themselves hazardous but can displace oxygen from the air when present in confined spaces.
- Ozone is not readily filtered by absorption type filters. However, ozone reverts back to normal oxygen upon contact with solid surfaces. The use of a Speedglas Welding Helmet or Protective Visor with the Adflo Respirator (particle filtration) will reduce ozone exposure. (For further information please contact AWS).
- Chemical constituents of a welding fume with very low Occupational Exposure Limits can pose special hazards and are sometimes best protected against by using a Supplied Air Regulator System. Always ask an appropriately qualified safety professional, such as an Occupational Hygienist for respiratory protection advice if you are unsure.

For information on the Workplace Exposure Limits in Australia or New Zealand, please download the Practical Guide to Welding Fume Control using the QR code below.



| Suggested Filter Type | | | | |
|-----------------------|---|---|--------------|--------|
| Chemical | | | Supplied Air | |
| Aluminium | P | | | |
| Argon | | | Supplied Air | 1 |
| Beryllium | P | | Supplied Air | K, S 3 |
| Bromine | | B | | |
| Cadmium | P | | | K |
| Carbon Dioxide | | | Supplied Air | |
| Carbon Monoxide | | | Supplied Air | |
| Chlorine | | B | | H |
| Chlorine Dioxide | | B | | |
| Chromium Hexavalent | P | | | K |
| Chromium Trivalent | P | | | |
| Copper | P | | | |
| Fluorides | P | | | |
| Fluorine | | | Supplied Air | |
| Helium | | | Supplied Air | 1 |
| Isocyanates | | | Supplied Air | S |
| Hydrogen Chloride | | B | Supplied Air | 3 |
| Hydrogen Cyanide | | B | Supplied Air | H3 |
| Hydrogen Fluoride | | B | Supplied Air | 3 |
| Hydrogen Sulphide | | B | | |
| Iron Oxide | P | | | |
| Lead | P | | | |
| Magnesium | P | | | |
| Manganese | P | | | |
| Nickel | P | | | K, S |
| Nitrogen Dioxide | | | Supplied Air | |
| Nitric Oxide | | | Supplied Air | |
| Ozone | P | A | | 2 |
| Phosgene | | | Supplied Air | 3 |
| Phosphine | | | Supplied Air | |
| Silicon Dioxide | P | | | |
| Sulphur Dioxide | | E | | |
| Trichloroethylene | | A | | K |
| Vanadium Oxide | P | | | |
| White Spirit | | A | | |
| Zinc | P | | | |
| Zinc Chloride | P | | | |
| Zinc Oxide | P | | | |



SPATA

Free to all 3M™ Speedglas™ Powered Air Customers

The Speedglas Powered Air Training Academy (SPATA) has been launched in Australia and New Zealand to provide workplaces with a set of online video training modules to educate and train staff in line with the suggested syllabus set out in the Australian and New Zealand Standard 1715 for workers using respiratory protective equipment.



Want to learn more about SPATA?
**Watch an introductory video
here!**

For companies that currently rely on 3M™ Speedglas™ Welding Helmets with Powered Air Purifying Respirators, this training package has been made completely free of charge.

As you may know, occupational health and safety legislation requires employers to provide the welder with information, training, and instruction in the proper use of PPE.

The SPATA program has been prepared in combination with occupational hygienists, welders, and industry professionals, to save your business time, hassle, and expense when it comes to training your welders on the proper use of their PPE. Simply use the SPATA program to assist in ticking that box.





The training program includes the following 10 video modules:

| Module No. | Module Name |
|------------|--|
| 1 | Welding Fume and Exposure Limits |
| 2 | Set-Up and Initial Checks |
| 3 | Your 3M™ Adflo™ Powered Air Purifying Respirator |
| 4 | Your 3M™ Speedglas™ Welding Lens |
| 5 | Your 3M™ Speedglas™ Welding Helmet and Harness |
| 6 | Changing Core Spare Parts and Consumables |
| 7 | Extra Protection and Optional Comfort Options |
| 8 | Maintenance - Cleaning, Storage and Record Keeping |
| 9 | A Practical Guide to Welding Fume Control |
| 10 | Limitations of Your Respiratory Protective Equipment |

Get the most out of your 3M Speedglas Powered Air Respirator today!

Sign up for **FREE**

at www.apexweldingsafety.com.au/spata



3M™ Speedglas™ Core Spare Parts



| Spare Part Required | 3M™ Speedglas™ 100 Series Welding Helmets | 3M™ Speedglas™ Welding Helmet 9002NC | 3M™ Speedglas™ Welding Helmet 9100XXi | 3M™ Speedglas™ Welding Helmet 9100XXi FX | 3M™ Speedglas™ Welding Helmet 9100XXi QR |
|--|--|--|--|--|--|
| Outside Cover Lens Standard | 77 60 00 | 42 60 00 | 52 60 00 | 52 60 00 | 52 60 00 |
| Outside Cover Lens Hard Coated | 77 70 00 | 42 70 00 | 52 70 00 | 52 70 00 | 52 70 00 |
| Outside Cover Lens High Heat | 77 70 70 | 42 70 71 | 52 70 70 | 52 70 70 | 52 70 70 |
| Inside Cover Lens | 42 80 00 | 42 80 10 | 52 80 25 | 52 80 25 | 52 80 25 |
| Grinding Plate | NA | 42 30 00 | NA | 52 30 00 (standard) 52 30 01 (anti-fog) | NA |
| Sweatband (Pack of 2) | 16 85 02 | 16 85 02 | 16 95 02 | 16 95 02 | 16 75 02 |
| Sweatband (Pack of 5) | 16 85 05 | 16 85 05 | 16 95 05 | 16 95 05 | 16 75 05 |
| Replacement Battery for Lens | 42 20 00 | 42 20 00 | 42 20 00 | 42 20 00 | 42 20 00 |
| Replacement Battery Holder | 73 10 00 | 43 10 00 | 53 10 00 | 53 10 00 | 53 10 00 |
| Magnifying Lens 1.0x, 1.5x, 2x, 2.5x, 3.0x | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 |
| Extra Protection Head | 16 40 09 | 16 40 09 | 16 90 05 | 16 90 06 (small) 16 90 07 (large) | NA |
| Extra Protection Neck | 16 90 01 | 16 90 01 | 16 90 10 | 16 90 10 | 16 40 05 |
| Extra Protection Hood | 16 91 00 | 16 91 00 | 16 91 00 | 16 91 00 | 16 91 00 |
| Head Harness | 70 50 15 | 70 50 15 | 53 30 00 | 53 30 00 | NA |
| Head Harness Attachments | 70 60 00 | 70 60 00 | 53 60 00 | 53 60 00 | NA |
| Earmuffs | NA | NA | 19 70 12 | 19 70 12 | MX4P3EG |
| Face Seal | NA | NA | NA | NA | NA |
| Pre-Filter | NA | NA | NA | NA | NA |
| Particle Filter | NA | NA | NA | NA | NA |
| Odour Filter | NA | NA | NA | NA | NA |
| Odour Filter Replacement Pad | NA | NA | NA | NA | NA |
| Gas Filter - Organic Vapour / Acid Gas | NA | NA | NA | NA | NA |
| Gas Filter - A1, Organic | NA | NA | NA | NA | NA |
| Adflo Battery Standard | NA | NA | NA | NA | NA |
| Adflo Battery Heavy Duty | NA | NA | NA | NA | NA |
| Adflo Battery Charger | NA | NA | NA | NA | NA |

1) Only suitable for use with M-400 Series headtops.

2) Ideal for powder coating, paint spray or similar applications. The 895976 is designed solely to keep the wearer clean and does not provide additional respiratory protection.

3) Lithium-ion (grey) batteries (83 76 30, 83 76 31) are only compatible with the Lithium-ion battery charger (83 31 11).



| 3M™ Speedglas™ Welding Helmet G5-02 | 3M™ Speedglas™ Welding Helmet 9100XXi Air | 3M™ Speedglas™ Welding Helmet 9100XXi MP Air | 3M™ Speedglas™ Welding Helmet 9100XXi FX Air | 3M™ Speedglas™ G5-01 Series Welding Helmets | 3M™ Versaflo™ Headtop M-207, M-307, M-407 |
|-------------------------------------|--|--|--|---|---|
| 62 60 00 | 52 60 00 | 52 60 00 | 52 60 00 | 52 60 00 | NA |
| NA | 52 70 00 | 52 70 00 | 52 70 00 | 52 70 00 | NA |
| NA | 52 70 70 | 52 70 70 | 52 70 70 | 52 70 70 | NA |
| 62 40 00 | 52 80 25 | 52 80 25 | 52 80 25 | 52 80 25 | NA |
| NA | NA | 52 30 00 (standard) 52 30 01 (anti-fog) | 52 30 00 (standard) 52 30 01 (anti-fog) | 61 30 00 (anti-fog) | NA |
| 16 85 02 | 16 95 02 | 16 85 02 | 16 95 02 | 16 95 02 | 16 85 02 |
| 16 85 05 | 16 95 05 | 16 85 05 | 16 95 05 | 16 95 05 | 16 85 05 |
| 60 20 00 | 42 20 00 | 42 20 00 | 42 20 00 | 60 20 00 | NA |
| 60 10 00 | 53 10 00 | 53 10 00 | 53 10 00 | 60 10 00 | NA |
| 17 20 20, 17 20 21, 17 20 22 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | 17 10 20, 17 10 21, 17 10 22, 17 10 23, 17 10 24 | NA |
| 16 90 05 | 16 90 05 | 16 90 14 | 16 90 06 (small) 16 90 07 (large) | 16 90 20 (small fabric), 16 90 22 (leather), 16 90 23 (large fabric) | 89 59 72 |
| 16 40 05 | 16 90 10 | 16 90 01 | 16 90 10 | 16 90 41 (small fabric), 16 90 42 (large fabric), 16 90 43 (leather) | 89 54 48 ¹⁾ |
| 16 91 00 | 16 91 00 | NA | 16 91 00 | 16 91 00 | 89 59 76 ²⁾ |
| 70 50 20 | 53 30 00 | 53 30 01 | 53 30 00 | 61 32 00 | 53 30 01 (M-307, M-407) 89 51 50 (M-207) |
| 70 60 30 | 53 60 00 | NA | 53 60 00 | 61 60 00 | NA |
| NA | 19 70 12 | 19 70 11 | 19 70 12 | NA | 19 70 11 |
| NA | 53 41 00 | 53 42 00 | 53 40 00 | 61 40 00 | 89 59 37 |
| NA | 83 60 10 | 83 60 10 | 83 60 10 | 83 60 10 | 83 60 10 |
| NA | 83 70 10 | 83 70 10 | 83 70 10 | 83 70 10 | 83 70 10 |
| NA | 83 71 10 | 83 71 10 | 83 71 10 | 83 71 10 | 83 71 10 |
| NA | 83 71 20 | 83 71 20 | 83 71 20 | 83 71 20 | 83 71 20 |
| NA | 83 72 42 | 83 72 42 | 83 72 42 | 83 72 42 | 83 72 42 |
| NA | 83 75 42 | 83 75 42 | 83 75 42 | 83 75 42 | 83 75 42 |
| NA | 83 76 30 ³⁾ | 83 76 30 ³⁾ | 83 76 30 ³⁾ | NA | 83 76 30 ³⁾ |
| NA | 83 76 31 ³⁾ | 83 76 31 ³⁾ | 83 76 31 ³⁾ | 83 76 31 ³⁾ | 83 76 31 ³⁾ |
| NA | 83 31 11 ³⁾ | 83 31 11 ³⁾ | 83 31 11 ³⁾ | 83 31 11 ³⁾ | 83 31 11 ³⁾ |

Spare Part Finder Tool

If you're still unsure about which spare part you need, try our Spare Part Finder Tool:

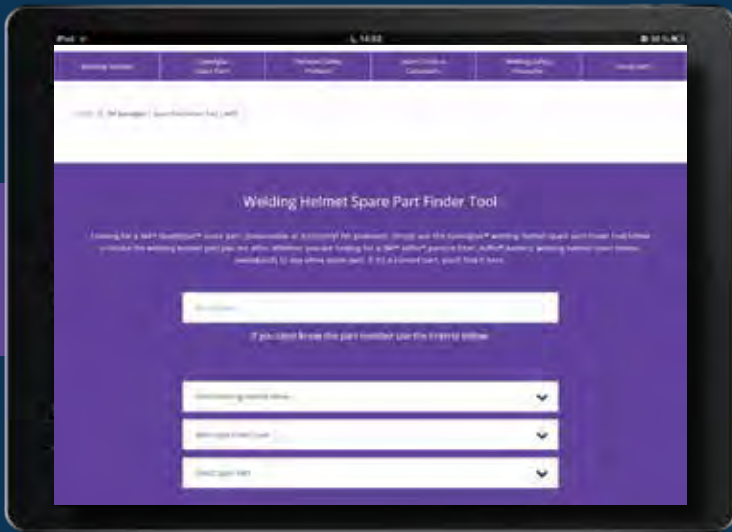


Spare Part Finder Tool

The key to ensuring your Speedglas welding helmet is performing at its best, is the regular replacement of core consumables and spare parts.

Looking for a 3M™ Speedglas™ spare part, consumable or accessory? No problems. Simply use the Speedglas™ welding helmet spare part finder tool to locate the welding helmet part you are after.

Whether you are looking for a 3M™ Adflo™ particle filter, Adflo™ battery, welding helmet cover lenses, sweatbands or any other spare part, if it's a current part, you'll find it here:



Need help?
Use the AWS Spare Part
Finder Tool here!



Care & Maintenance Guide

For care & maintenance advice based on your specific welding helmet, use the AWS care & maintenance tool. Simply select your welding helmet from the list and we'll send a customised care & maintenance schedule & cleaning guide, including a welding helmet breakdown with all spare parts and recommended change frequencies.

Perfect for the wall at work or home!

Look after your welding helmet!
Download Care & Maintenance
Posters FREE here!





Extra Protection: we have you covered!

Every welder is different and each day your tasks can change. As the owner of a 3M™ Speedglas™ Welding Helmet, you have a variety of accessories available to maximise your protection and comfort.

Plus, we now offer a new generation of additional coverage products made in flame-retardant textiles for protection against molten metal, sparks and flames.

For 3M™ Speedglas™ Non-Respiratory Welding Helmets

| 3M™ Speedglas™ Non-Respiratory Welding Helmet | 100 | 9002NC | 9100 | 9100 FX | 9100 QR | G5-02 |
|---|--|--------|----------|--------------------------------------|--------------------|--------------------------------|
| Head protection | 16 40 09 | | 16 90 05 | 16 90 07 (large) 16 90 06 (small) | N/A | 16 90 05 |
| Neck protection | 16 90 01 16 40 05 (leather) | | 16 90 10 | | 16 40 05 (leather) | 16 90 01 16 40 05 (leather) |
| Hood | 16 91 00 | | | | | |
| Welding jacket | 95 42 01 (M), 95 42 02 (L), 95 42 03 (XL), 95 42 04 (XXL), 95 42 05 (XXXL) | | | | | |

For 3M™ Speedglas™ Respiratory Welding Helmets

| 3M™ Speedglas™ Respiratory Welding Helmet | 9100 Air | 9100 FX Air | 9100 MP Air | G5-01 |
|---|--|--------------------------------------|-----------------------|--|
| Head protection | 16 90 05 | 16 90 07 (large) 16 90 06 (small) | 16 90 14 (reflective) | 16 90 20 (small fabric) 16 90 22 (leather) 16 90 23 (large fabric) |
| Neck protection | 16 90 10 | | 16 90 01 | 16 90 41 (small fabric) 16 90 42 (large fabric) 16 90 43 (leather) |
| Hood | 16 91 00 | | NA | 16 91 00 |
| Breathing tube cover | 83 40 18 | | | |
| Welding jacket | 95 42 01 (M), 95 42 02 (L), 95 42 03 (XL), 95 42 04 (XXL), 95 42 05 (XXXL) | | | |

Time for an upgrade?

Upgrading your respiratory headtop

If you currently own a Speedglas respiratory welding helmet with Adflo™ PAPR, you may want to experience new features that are exclusive to a specific Speedglas headtop. However, given you already use an Adflo PAPR, you may not see the value in purchasing a new Speedglas powered air system in its entirety. This is where the upgrade kit comes in!

Each upgrade kit is comprised of a new headtop and lens to connect to your existing Adflo PAPR unit.

3M™ Speedglas™ 9100XXi Air Upgrade Kit
Part No. 50 90 26



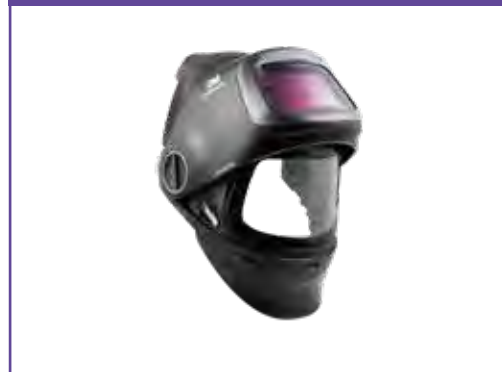
3M™ Speedglas™ 9100XXi MP Air Upgrade Kit
Part No. 57 90 26



3M™ Speedglas™ G5-01TW Upgrade Kit
Part No. 61 11 20



3M™ Speedglas™ G5-01VC Upgrade Kit
Part No. 61 11 30



PLUS: Speedglas battery upgrade kits!

Speedglas battery upgrade kits include a new Lithium-Ion Adflo battery and accompanying new Adflo charger to integrate into your existing PAPR unit. This new battery is not only 40% lighter, but also includes a One Hour Rapid Charge function: meaning it just takes an hour to charge the battery to 80%!

Two Lithium-Ion upgrade kits are available: the standard battery (Part No. 837630C - 8 hours runtime approx.) and the heavy-duty version (Part No. 837631C - 12 hours runtime approx.)



Upgrade Your Comfort

Increasing your comfort

A Heavy-Duty PAPR Backpack attachment (part no. 954015HD) is available as an alternative to the standard belt (part no. 83 50 00). This option is geared towards improved wearability, distributing the weight of the Adflo system evenly for extra comfort across your back and shoulders.

Backpack (Part No. 954015HD)



Introducing the SPATA Welding Jacket

All aspects of the welder's day-to-day have been considered in the development of the SPATA jacket including dual zip and press stud front closure, press studs with multiple sizes on the wrists, Velcro on the neck, two inside pockets, and a pocket for a pencil/chalk on the welder's arm.

See Page 49 for part numbers.



3M™ Speedglas™ Welding Helmet Selector Table

● Best¹⁾ ● Better¹⁾ ● Good¹⁾ ✗ Not Recommended¹⁾



| Specification | 3M™ Speedglas™ G5-01VC Heavy-Duty Respiratory Welding Helmet | 3M™ Speedglas™ G5-01TW Heavy-Duty Respiratory Welding Helmet | 3M™ Speedglas™ 9100 MP Air Respiratory Welding Helmet | 3M™ Speedglas™ 9100 Air Respiratory Welding Helmet |
|--|--|--|---|--|
| MMAW (electrode) | ● | ● | ● | ● |
| MIG/MAG | ● | ● | ● | ● |
| TIG (>10A) | ● | ● | ● | ● |
| TIG (1A-10A) | ● | ● | ● | ● |
| Plasma (Welding and Cutting) | ● | ● | ● | ● |
| Hidden Arc | ● | ● | ● | ● |
| Tack Welding | ● | ● | ● | ● |
| Grinding (Welding Lens) | Clear Visor (170 x 104mm) | Clear Visor (170 x 104mm) | Clear Visor (170 x 100mm) | ● |
| Viewing Area (Welding Lens) | 73 x 109 mm | 73 x 109 mm | 73 x 107 mm | 73 x 107 mm |
| True-View Technology | Yes | Yes | Yes | Yes |
| Curved Glass Technology | No | No | No | No |
| Variable Colour Technology | Yes | No | No | No |
| Auto-On Technology | Yes | Yes | Yes | Yes |
| Dark State | Shades 5, 8-14 | Shades 5, 8-13 | Shades 5, 8-13 | Shades 5, 8-13 |
| Light State | Shade 3 | Shade 3 | Shade 3 | Shade 3 |
| UV Protection | Shade 14 (permanent) | Shade 13 (permanent) | Shade 13 (permanent) | Shade 13 (permanent) |
| Battery Lifetime | 1 500 hours | 1 500 hours | 1 800 hours | 1 800 hours |
| Classification ²⁾ | 1 / 1 / 1 (with True-View) | 1 / 1 / 1 (with True-View) | 1 / 1 / 1 (with True-View) | 1 / 1 / 1 (with True-View) |
| Switching Time, Light-Dark | 0.1 ms (+23° C) | 0.1 ms (+23° C) | 0.1 ms (+23° C) | 0.1 ms (+23° C) |
| Delay (Switching Time, Dark-Light) | 50-1300 ms | 50-1300 ms | 40-800 ms | 40-800 ms |
| Memory Modes | Yes - 4 (via mobile app) | Yes - 4 (via mobile app) | No | Yes - 2 |
| Bluetooth Connectivity | Yes | Yes | No | No |
| Standards Compliance Respiratory protection Eye protection Face protection Head protection Hearing protection | AS/NZS1716 AS/NZS1338.1 AS/NZS1337.1 | AS/NZS1716 AS/NZS1338.1 AS/NZS1337.1 | AS/NZS1716 AS/NZS1338.1 AS/NZS1337.1 AS/NZS1801 AS/NZS1270 (optional) | AS/NZS1716 AS/NZS1338.1 AS/NZS1337.1 |
| Required Minimum Protection Factor (RMPF) ³⁾ Powered Air - Adflo Supplied Air - V-500E | 50 100+ | 50 100+ | 50 100+ | 50 100+ |

1) The ratings above (best - better - good - not recommended) only refer to the products listed in this chart and should be considered as general recommendations only.

2) Auto-darkening welding lenses have a classification system in European Standard EN379: optical class / diffusion of light / variation on luminous transmittance. Classification range from 1 to 3, with 1 being the best.

3) For mechanically and thermally generated particles.

All Speedglas welding helmets featured in the table above are compliant with the relevant Australian and New Zealand standards (AS/NZS).



| 3M™ Speedglas™ Curved Welding Helmet G5-02 | 3M™ Speedglas™ 9100XXi FX Welding Helmet | 3M™ Speedglas™ 9100XXi QR Welding & Safety Helmet | 3M™ Speedglas™ Welding Helmet 9100XXi | 3M™ Speedglas™ Welding Helmet 9002NC | 3M™ Speedglas™ 100 Series Welding Helmets |
|---|--|---|---------------------------------------|--------------------------------------|---|
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | × |
| ● | ● | ● | ● | ● | × |
| ● | ● | ● | ● | ● | × |
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● |
| × | Clear Visor (170 x 100mm) | ● | ● | × | ● |
| Curved 76 x 150 mm | 73 x 107 mm | 73 x 107 mm | 73 x 107 mm | 55 x 107 mm | 44 x 93 mm |
| Yes | Yes | Yes | Yes | Yes | No |
| Yes | No | No | No | No | No |
| No | No | No | No | No | No |
| Yes | Yes | Yes | Yes | No | No |
| Shades 8-12 | Shades 5, 8-13 | Shades 5, 8-13 | Shades 5, 8-13 | Shades 8-12 | Shades 8-12 (100B = 10-12) |
| Shade 2.5 | Shade 3 | Shade 3 | Shade 3 | Shade 3 | Shade 3 |
| Shade 12 (permanent) | Shade 13 (permanent) | Shade 13 (permanent) | Shade 13 (permanent) | Shade 12 (permanent) | Shade 12 (permanent) |
| 1 500 hours | 1 800 hours | 1 800 hours | 1 800 hours | 2 000 hours | 1 500 hours |
| Curved lens surpasses current testing methods | 1 / 1 / 1 (with True-View) | 1 / 1 / 1 (with True-View) | 1 / 1 / 1 (with True-View) | 1 / 1 / 1 (with True-View) | 1 / 2 / 2 |
| 0.1 ms (+23° C) | 0.1 ms (+23° C) | 0.1 ms (+23° C) | 0.1 ms (+23° C) | 0.1 ms (+23° C) | 0.1 ms (+23° C) |
| 50-1000 ms | 40-800 ms | 40-800 ms | 40-800 ms | 60-400 ms | 40-250 ms |
| Yes - 4 (via mobile app) | No | Yes - 2 | Yes - 2 | No | No |
| Yes | No | No | No | No | No |
| AS/NZS1337.1 | AS/NZS1338.1 AS/NZS1337.1 | AS/NZS1338.1 AS/NZS1337.1 AS/NZS1801 | AS/NZS1338.1 AS/NZS1337.1 | AS/NZS1338.1 AS/NZS1337.1 | AS/NZS1338.1 AS/NZS1337 |
| N/A N/A | N/A N/A | N/A N/A | N/A N/A | N/A N/A | N/A N/A |



Try our Welding Helmet Selector Tool here!



Welding Helmet Selector

If you're still unsure about which helmet best suits your needs, try our **Welding Helmet Selector Tool**:
Visit www.apexweldingsafety.com.au/welding-helmet-selector

2



On-Gun Fume Extraction

**On-gun fume extraction is too heavy, too bulky,
and impacts the shielding gas...
Not anymore.**

On-gun fume extraction is one of the safest and most effective methods of controlling welding fume and is heavily used and relied upon in Europe and North America. However, for the reasons above, on-gun extraction has not been adopted in Australia or New Zealand.

AWS has teamed up with Translas, Dutch on-gun fume extraction specialist, to launch an industry first: a range of lightweight, manoeuvrable, and ergonomic extraction guns that deliver an industry-leading capture rate of up to 98%, all while leaving the shielding gas completely unaffected.

No other welding fume control solution captures welding fume at the source, removes it from the environment, and most importantly, follows the welder as they move. Experience Translas fume extraction technology today.

**UP TO 98% CAPTURE RATE
AND 100% DUTY CYCLE**





The safest and most effective method.



Extraction at the source is the safest and most effective solution to control the spread of welding fume in the work environment. Translas on-gun fume extraction captures harmful welding fumes and individual particulates as soon as they are generated, keeping the welder protected and the work environment fume free.

Up to 98% capture rate and 100% duty cycle.



Translas leads the industry with a fume capture rate up to 98%. However, like the eye of a storm, the cyclonic extraction effect leaves the shielding gas completely unaffected. The Translas range of fume guns are built tough and offer a 100% duty cycle.

Super lightweight & ergonomic fume gun.



On-gun fume extraction can no longer be considered too heavy and cumbersome, as Translas fume guns are the same weight or lighter than many standard welding guns. Moreover, the small ergonomic handle makes it one of the most comfortable guns to work with for any welder.

Low maintenance with self-cleaning.



The extraction system has an automatic cleaning function. The moment the pressure in the filter is too high, the units begin to automatically clean the filters. Auto-cleaning and the variable frequency drive motor ensures extraction flow rates are always maintained at a precise level, making this powerful solution suitable for high production welding environments.

A potential option for confined spaces.



On-gun fume extraction captures welding fume before it can be released into the environment or build up around the welder, making Translas a potential option for confined spaces*. Due to the powerful variable frequency motor, the extraction unit can be positioned over 20 metres away from the welder and still deliver the same industry leading capture rate of up to 98%.

* Confined spaces can be deadly and decisions on how to handle a specific confined space must be assessed on the spot and always comes down to the specifics of the individual situation. There should be a suitably trained and knowledgeable person doing the assessment and design of a safe system for any confined space entry.



1. SELECT YOUR ON-GUN EXTRACTION PACKAGE



TRANSLAS 8XE 250 MINI MIG EXTRACTION SYSTEMS

Translas 250 On-Gun Fume Extraction System
ONE PERSON/ONE GUN

Part Number
TR250S

TRANSLAS
DUTCH WELDING TECHNOLOGY

NEW

SELECT FOR WELDING BELOW 250 AMPS



AIR COOLED



LEARN MORE



- ✓ 250 amp air cooled on-gun fume extraction system
- ✓ Up to 98% capture rate leaves shielding gas unaffected
- ✓ Ergonomic and super lightweight welding gun
- ✓ Extraction system self cleans with auto start and stop
- ✓ 100% duty cycle with Euro connection
- ✓ Kit includes everything you need to get started with on-gun extraction

Translas 250 On-Gun Fume Extraction System
TWO PERSON/TWO GUN

Part Number
TR250D

TRANSLAS
DUTCH WELDING TECHNOLOGY

NEW

SELECT FOR WELDING BELOW 250 AMPS



AIR COOLED



LEARN MORE



- ✓ Two person 250 amp air cooled on-gun fume extraction system
- ✓ Up to 98% capture rate leaves shielding gas unaffected
- ✓ Two ergonomic and super lightweight welding guns
- ✓ Extraction system self cleans with auto start and stop
- ✓ 100% duty cycle with Euro connection
- ✓ Kit includes everything you need to get started with on-gun extraction

1. SELECT YOUR ON-GUN EXTRACTION PACKAGE



TRANSLAS 8XE 400 MIG EXTRACTION SYSTEMS

Translas 400 On-Gun Fume Extraction System
ONE PERSON/ONE GUN

Part Number
TR400S

TRANSLAS
DUTCH WELDING TECHNOLOGY

NEW

SELECT FOR WELDING 250 - 400 AMPS

 **AIR COOLED**



LEARN MORE



- ✓ 400 amp air cooled on-gun fume extraction system
- ✓ Up to 98% capture rate leaves shielding gas unaffected
- ✓ Ergonomic and super lightweight welding gun
- ✓ Extraction system self cleans with auto start and stop
- ✓ 100% duty cycle with Euro connection
- ✓ Kit includes everything you need to get started with on-gun extraction


Translas 400 On-Gun Fume Extraction System
TWO PERSON/TWO GUN

Part Number
TR400D

TRANSLAS
DUTCH WELDING TECHNOLOGY

NEW

SELECT FOR WELDING 250 - 400 AMPS

 **AIR COOLED**



LEARN MORE



- ✓ Two person 400 amp air cooled on-gun fume extraction system
- ✓ Up to 98% capture rate leaves shielding gas unaffected
- ✓ Two ergonomic and super lightweight welding guns
- ✓ Extraction system self cleans with auto start and stop
- ✓ 100% duty cycle with Euro connection
- ✓ Kit includes everything you need to get started with on-gun extraction



TRANSLAS 8XE 500 MIG EXTRACTION SYSTEMS

Translas 500 On-Gun Fume Extraction System
ONE PERSON/ONE GUN

Part Number
TR500S

TRANSLAS 
DUTCH WELDING TECHNOLOGY

NEW

SELECT FOR WELDING OVER 400 AMPS



WATER COOLED



LEARN MORE



- ✓ 500 amp water cooled on-gun fume extraction system
- ✓ Up to 98% capture rate leaves shielding gas unaffected
- ✓ Ergonomic and super lightweight welding gun
- ✓ Extraction system self cleans with auto start and stop
- ✓ 100% duty cycle with Euro connection
- ✓ Kit includes everything you need to get started with on-gun extraction

Translas 500 On-Gun Fume Extraction System
TWO PERSON/TWO GUN

Part Number
TR500D

TRANSLAS 
DUTCH WELDING TECHNOLOGY

NEW

SELECT FOR WELDING OVER 400 AMPS



WATER COOLED



LEARN MORE



- ✓ Two person 500 amp water cooled on-gun fume extraction system
- ✓ Up to 98% capture rate leaves shielding gas unaffected
- ✓ Two ergonomic and super lightweight welding guns
- ✓ Extraction system self cleans with auto start and stop
- ✓ 100% duty cycle with Euro connection
- ✓ Kit includes everything you need to get started with on-gun extraction

2. SELECT YOUR CONSUMABLES

250 AMP GUN CONSUMABLE OPTIONS

| Item | Part Number | Description | Pack Qty |
|------|-------------|---|----------|
| A | TR3937000 | Nozzle conical 12mm | 5 |
| | TR3937001 | Nozzle conical 14mm tapered | 5 |
| B | TR3990091 | Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire | 25 |
| | TR3990101 | Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire | 25 |
| | TR3990121 | Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire | 25 |
| C | TR39327110 | Tip adapter 250 | 10 |
| D | TR301545 | Plastic coated liner blue 4 metre - for 0.8 to 1.0 wire | 1 |
| | TR301555 | Plastic coated liner blue 5 metre - for 0.8 to 1.0 wire | 1 |
| | TR302545 | Plastic coated liner red 4 metre - for 0.8 to 1.2 wire | 1 |
| | TR302555 | Plastic coated liner red 5 metre - for 0.8 to 1.2 wire | 1 |
| | TR303645 | Plastic coated liner yellow 4 metre - for 1.2 to 1.6 wire | 1 |
| | TR303655 | Plastic coated liner yellow 5 metre - for 1.2 to 1.6 wire | 1 |
| E | TR320300 | Ceramic spray 400ml | 1 |

250 AMP GUN

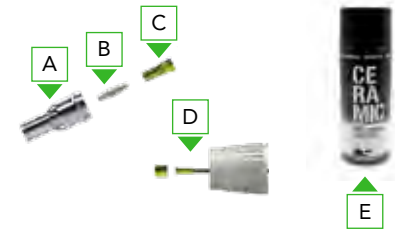
A, B, C, & D are all required

A. Select nozzle size

B. Select contact tip based on wire size

C. Tip adapter required

D. Select a liner based on wire size



400 AMP GUN CONSUMABLE OPTIONS

| Item | Part Number | Description | Pack Qty |
|------|-------------|---|----------|
| A | TR3937041 | Nozzle conical 14mm tapered | 5 |
| | TR3937045 | Nozzle conical 17mm tapered | 5 |
| B | TR3990091 | Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire | 25 |
| | TR3990101 | Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire | 25 |
| | TR3990121 | Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire | 25 |
| | TR3990161 | Contact tip - CuCrZr tri metal nickel plated - for 1.6 wire | 25 |
| C | TR39327310 | Tip adapter 400 | 10 |
| D | TR303794 | Plastic coated liner black 4 metre - for 0.9 to 1.2 wire | 1 |
| | TR303795 | Plastic coated liner black 5 metre - for 0.9 to 1.2 wire | 1 |
| | TR303764 | Plastic coated liner grey 4 metre - for 1.6 wire | 1 |
| | TR303765 | Plastic coated liner grey 5 metre - for 1.6 wire | 1 |
| E | TR320300 | Ceramic spray 400ml | 1 |

400 AMP GUN

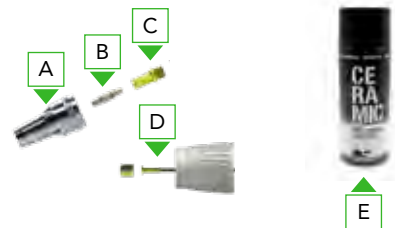
A, B, C, & D are all required

A. Select nozzle size

B. Select contact tip based on wire size

C. Tip adapter required

D. Select a liner based on wire size



500 AMP GUN CONSUMABLE OPTIONS

| Item | Part Number | Description | Pack Qty |
|------|-------------|---|----------|
| A | TR3937041 | Nozzle conical 14mm tapered | 5 |
| | TR3937045 | Nozzle conical 17mm tapered | 5 |
| B | TR3990091 | Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire | 25 |
| | TR3990101 | Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire | 25 |
| | TR3990121 | Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire | 25 |
| | TR3990161 | Contact tip - CuCrZr tri metal nickel plated - for 1.6 wire | 25 |
| C | TR39327210 | Tip adapter 500 | 10 |
| D | TR302545 | Plastic coated liner red 4 metre - for 0.8 to 1.2 wire | 1 |
| | TR302555 | Plastic coated liner red 5 metre - for 0.8 to 1.2 wire | 1 |
| | TR303645 | Plastic coated liner yellow 4 metre - for 1.2 to 1.6 wire | 1 |
| E | TR303655 | Plastic coated liner yellow 5 metre - for 1.2 to 1.6 wire | 1 |
| | TR320300 | Ceramic spray 400ml | 1 |

500 AMP GUN

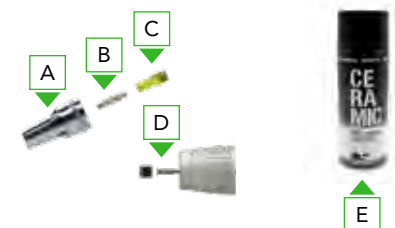
A, B, C, & D are all required

A. Select nozzle size

B. Select contact tip based on wire size

C. Tip adapter required

D. Select a liner based on wire size



AIR QUALITY IN YOUR WORKSHOP

When you consider a welding fume particle that is 0.5 µm in size can take 2 days to reach the floor when released from a height of 1.5 metres, you begin to understand how long these carcinogenic particles can remain suspended in the air. This is vital to consider when sharing a work environment with welders, as the air could contain respiratory hazards long after welding has been completed.

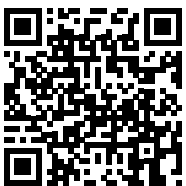
On-gun fume extraction can assist in reducing exposure to welding fume and other airborne contaminants, not only for the welder, but also for those who work near welding operations. This is the key difference between on-gun fume extraction and Personal Protective Equipment (PPE) used by the welder. PPE can only protect the welder, while on-gun fume extraction can protect the welder and stop the spread of fume throughout the workplace protecting all workers from welding fume exposure.

For this reason, on-gun fume extraction can be the most economical method to protect all workers from welding fume exposure in shared working environments.



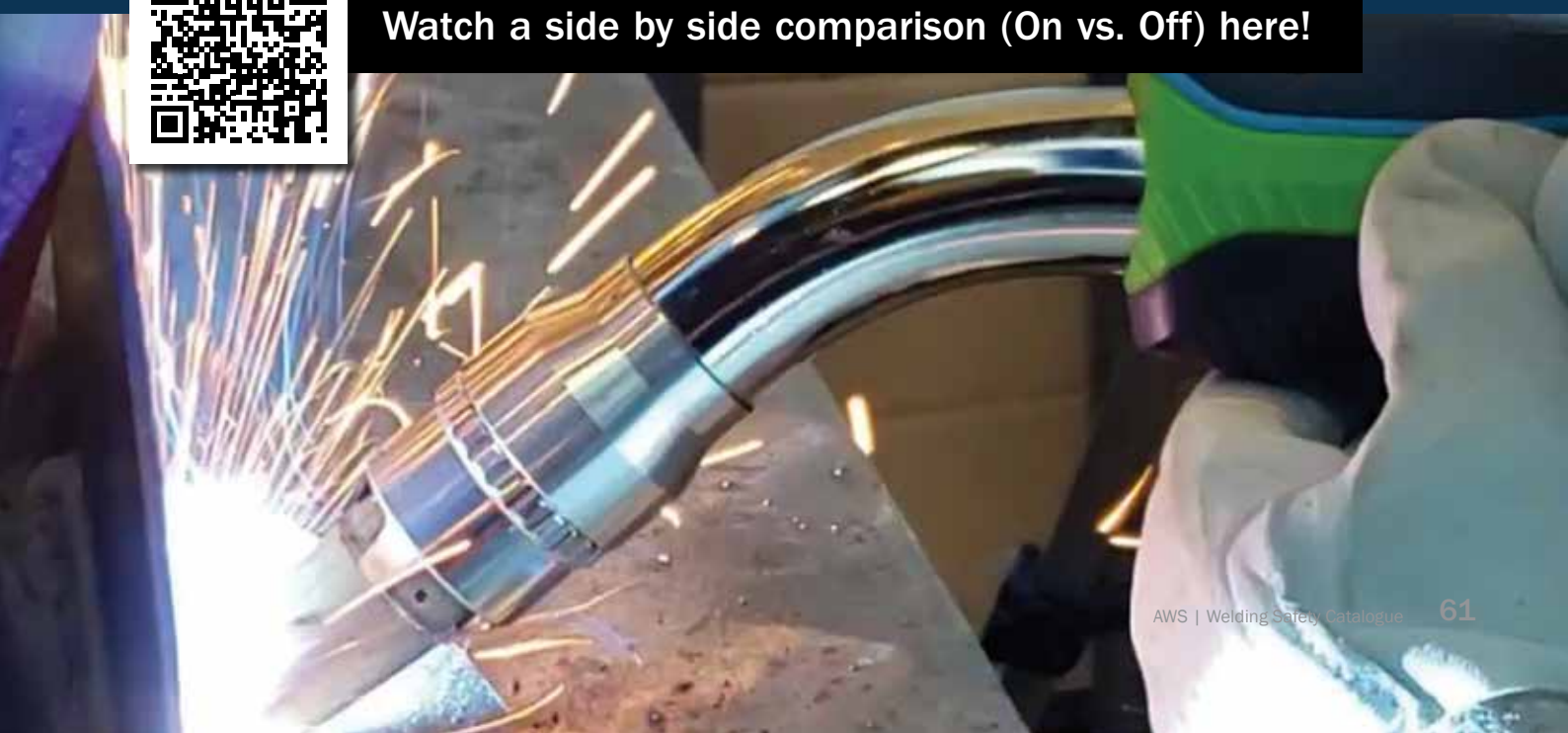
UP TO 98% CAPTURE RATE & 100% DUTY CYCLE

**REMOVES FUME AND FOLLOWS THE WELDER
UNLIKE OTHER FORMS OF LEV**



Want to see Translas on-gun fume extraction for yourself?

Watch a side by side comparison (On vs. Off) here!



Translas On-Gun Fume Extraction Kit Selector Table



| Specification | Translas 8XE 250 Amp On-Gun Fume Extraction System | Translas 8XE 250 Amp On-Gun Fume Extraction Double System | Translas 8XE 400 Amp On-Gun Fume Extraction System |
|----------------------------------|--|--|--|
| Part Number | TR250S | TR250D | TR400S |
| Number of Users | 1 | 2 | 1 |
| Recommended Amps | 250 Amps and below | 250 Amps and below | 250 - 400 Amps |
| Air/Water Cooled | Air Cooled | Air Cooled | Air Cooled |
| CO² | 280 Amp | 280 Amp | 420 Amp |
| Mixed Gases | 250 Amp | 250 Amp | 400 Amp |
| Duty Cycle | 100% | 100% | 100% |
| Fume Capture Rate | Up to 98% | Up to 98% | Up to 98% |
| Gun Rotation | 360° Swivel | 360° Swivel | 360° Swivel |
| Automatic Start/Stop | Yes | Yes | Yes |
| Auto Filter Cleaning | Yes | Yes | Yes |
| Dimensions | (L x W x H) 700 x 440 x 585 / 630mm (without / with wheels) | (L x W x H) 700 x 530 x 560 / 630mm (without / with wheels) | (L x W x H) 700 x 440 x 585 / 630mm (without / with wheels) |
| Implementation | Mobile on 4 wheels - 2 rotating with locks | Mobile on 4 wheels - 2 rotating with locks | Mobile on 4 wheels - 2 rotating with locks |
| Power Supply | 380-480V (3 Phase) | 380-480V (3 Phase) | 380-480V (3 Phase) |
| Motor Power | 1.5 KW | Maximum 3.0 KW | 1.5 KW |
| Suction Flow (Torch) | Target: 33 CFM / Max: 38 CFM | Target: 33 CFM / Max: 38 CFM | Target: 33 CFM / Max: 38 CFM |
| Filter Surface | 5m ² Active filter surface, filter efficiency: IFA >99.8% | 5m ² Active filter surface, filter efficiency: IFA >99.8% | 5m ² Active filter surface, filter efficiency: IFA >99.8% |
| Working Temperature | 0 to +50°C | 0 to +50°C | 0 to +50°C |
| Weight | 45kg | 58kg | 45kg |
| Noise Level | Max. dB(A) <65dB(A) (at 100% suction flow) | Max. dB(A) <65dB(A) (at 100% suction flow) | Max. dB(A) <65dB(A) (at 100% suction flow) |
| Certifications | CE (European), W3 (Germany), and CSA (North America) | CE (European), W3 (Germany), and CSA (North America) | CE (European), W3 (Germany), and CSA (North America) |
| Compressed Air (Cleaning) | 80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline | 80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline | 80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline |

Kits include everything you need to get started with on-gun fume extraction: fume gun(s), extraction unit, hose(s), sensing cable(s), compressed air valve, airflow metre, filters, consumables (tip, tip adapter, nozzle, liner).



| Translas 8XE 400 Amp On-Gun Fume Extraction Double System | Translas 8XE 500 Amp On-Gun Fume Extraction System | Translas 8XE 500 Amp On-Gun Fume Extraction Double System |
|--|--|--|
| TR400D | TR500S | TR500D |
| 2 | 1 | 2 |
| 250 - 400 Amps | Over 400 Amps | Over 400 Amps |
| Air Cooled | Water Cooled | Water Cooled |
| 420 Amp | 550 Amp | 550 Amp |
| 400 Amp | 500 Amp | 500 Amp |
| 100% | 100% | 100% |
| Up to 98% | Up to 98% | Up to 98% |
| 360° Swivel | 360° Swivel | 360° Swivel |
| Yes | Yes | Yes |
| Yes | Yes | Yes |
| (L x W x H) 700 x 530 x 560 / 630mm (without / with wheels) | (L x W x H) 700 x 440 x 585 / 630mm (without / with wheels) | (L x W x H) 700 x 530 x 560 / 630mm (without / with wheels) |
| Mobile on 4 wheels - 2 rotating with locks | Mobile on 4 wheels - 2 rotating with locks | Mobile on 4 wheels - 2 rotating with locks |
| 380-480V (3 Phase) | 380-480V (3 Phase) | 380-480V (3 Phase) |
| Maximum 3.0 KW | 1.5 KW | Maximum 3.0 KW |
| Target: 33 CFM / Max: 38 CFM | Target: 33 CFM / Max: 38 CFM | Target: 33 CFM / Max: 38 CFM |
| 5m ² Active filter surface, filter efficiency: IFA >99.8% | 5m ² Active filter surface, filter efficiency: IFA >99.8% | 5m ² Active filter surface, filter efficiency: IFA >99.8% |
| 0 to +50°C | 0 to +50°C | 0 to +50°C |
| 58kg | 45kg | 58kg |
| Max. dB(A) <65dB(A) (at 100% suction flow) | Max. dB(A) <65dB(A) (at 100% suction flow) | Max. dB(A) <65dB(A) (at 100% suction flow) |
| CE (European), W3 (Germany), and CSA (North America) | CE (European), W3 (Germany), and CSA (North America) | CE (European), W3 (Germany), and CSA (North America) |
| 80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline | 80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline | 80 PSI (5.5 Bar), Dry/Clean Air, 20 CFM, Standard Size Airline |

3



Portable Local Exhaust Ventilation (LEV)

Portable LEV captures welding fume at the source, protecting the welder, and stopping the spread of fume throughout the workshop.

Portable systems can be manoeuvred around the workplace to provide effective protection from welding fume and are a perfect solution for workplaces where extraction is required across a range of different situations or positions.

Portable systems can be a more economical option when compared to fixed installations and can offer more flexibility as requirements change over time.

The Leading Brands in Portable LEV Fume Extraction

AWS has teamed up with the world's leading brands in Local Exhaust Ventilation to launch a range of portable LEV systems designed specifically for the welding industry.

The range has been hand-picked to cater for all common welding processes including TIG, MMA, MIG, and FCAW.

Designed and manufactured by Nederman and Bomaksan, these portable welding fume extractors capture fumes at the source, which is the most effective way to collect and remove fumes.





NEW RANGE

A system to cater for all common welding processes.

Nederman

Nederman Welding Fume Protection System 860

Part Number: FPS180



The Nederman 860 is a practical and lightweight LEV system, designed to be carried to and from the working area, and built specifically for welding environments.

Connected to an on-gun welding torch or to an extraction nozzle, the Fume Eliminator 860 extracts welding fume directly at the source with an automatic start/stop function.

The Nederman 860 will notify the welder when the filter is 85% and 100% full and needs replacing. Suitable for most welding applications.

- Disposable 'no-touch' filter (99.7% efficiency)
- Portable and easy to carry (16kg)
- Simple operation with low service costs
- Automatic start/stop function
- Maintains desired extraction flow automatically (fully adjustable)
- Suitable for On-Gun Fume Extraction
- Variety of extraction nozzles available for bench welding.

Extraction nozzles sold separately.



FPSN01
Focused nozzle funnel



FPSN02
Wide nozzle funnel



| | FPS180 |
|----------------------------------|--------------------|
| Wire Suitability | 0.9 - 1.6mm wire |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | OK |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | OK |
| Occasional Flux Cored | Yes |
| Regular Flux Cored | OK |
| Continuous Flux Cored | OK |
| Number of Nozzles/Arms | 1 |
| Length of Arms or Hose (m) | 2.5 |
| Filter Efficiency | 99.7% (F9) |
| Filter Type | Disposable |
| Filter Surface (m ²) | 5.3 |
| Airflow (m ³ /h) | Max. 180 |
| Number of Filters | 1 |
| Fume Tray Volume (l) | N/A |
| Working Hour Counter | No |
| Filter Sensor & Indicator | Yes |
| Fan Rotation Direction Indicator | No |
| Weight (without arm) | 16kg |
| Dimensions (H x W x D) | 406 x 222 x 800 mm |
| Power Voltage (V) / Phases | 230 / 1 |
| Noise Level (dB(A)) | 73 |
| Warranty | 1 year |
| Compliance | CE Certified |

Nederman Welding Fume Protection System 900

Part Number: FPS900



| | FPS900 |
|----------------------------------|---------------------|
| Wire Suitability | 0.9 - 1.2mm wire |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | OK |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | OK |
| Occasional Flux Cored | OK |
| Regular Flux Cored | Not Recommended |
| Continuous Flux Cored | Not Recommended |
| Number of Nozzles/Arms | 1 |
| Length of Arms or Hose (m) | 3 |
| Filter Efficiency | >99% (E12) |
| Filter Type | Cleanable |
| Filter Surface (m ²) | 12 |
| Airflow (m ³ /h) | 500 - 900 |
| Number of Filters | 1 |
| Fume Tray Volume (l) | 10 |
| Working Hour Counter | No |
| Filter Sensor & Indicator | No |
| Fan Rotation Direction Indicator | No |
| Weight (without arm) | 150kg |
| Dimensions (H x W x D) | 1200 x 665 x 780 mm |
| Power Voltage (V) / Phases | 230 / 1 |
| Noise Level (dB(A)) | 72 |
| Warranty | 1 year |
| Compliance | CE Certified |

The FPS900 is a mobile, single-arm welding fume extraction unit, offering easy and trouble-free operation.

Featuring a flexible 3 metre extraction arm that can be swivelled 360 degrees, the unit is easy to position, ensuring there is no impact on the welding process.

Suitable for use across all medium welding fume producing applications, the cleanable long-life cartridge filter ensures running costs are kept to a minimum.

- Cleanable filter ensures low running costs
- 3-metre arm with 360-degree swivel
- Extraction hood provides superior performance
- Easy to move and manoeuvre
- Blow gun included for cleaning.

Bomaksan PRO

Part Number: BPR013

| | BPR013 |
|----------------------------------|---------------------------------|
| Wire Suitability | 0.9 - 1.6mm wire |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | Yes |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | Yes |
| Occasional Flux Cored | Yes |
| Regular Flux Cored | OK |
| Continuous Flux Cored | OK |
| Number of Nozzles/Arms | 1 |
| Length of Arms or Hose (m) | 3 |
| Filter Efficiency | 99.99% (H13 HEPA) or >95% (F9)* |
| Filter Type | Cleanable |
| Filter Surface (m ²) | 20 or 24* |
| Airflow (m ³ /h) | 1400 |
| Number of Filters | 1 |
| Fume Tray Volume (l) | 16 |
| Working Hour Counter | Yes |
| Filter Sensor & Indicator | Yes |
| Fan Rotation Direction Indicator | Yes |
| Weight (without arm) | 183kg |
| Dimensions (H x W x D) | 1320 x 650 x 815 mm |
| Power Voltage (V) / Phases | 400 / 3 |
| Noise Level (dB(A)) | 72 |
| Warranty | 2 years |
| Compliance | CE Certified |



The Bomaksan PRO is a professional, mobile, single-arm welding fume extraction unit, available with a HEPA class (99.99%) cleanable filter.

The large 24m² filter surface area makes the Bomaksan PRO suitable for use across all medium-to-high welding fume producing applications.

- Cleanable filter ensures low running costs
- Large filter surface area of 24m²
- 3 metre arm with 360-degree swivel
- Control and signal panel with operating hour counter
- Extraction hood provides superior performance
- Easy to move and manoeuvre.

* The Bomaksan PRO can be used with either the NanoBLEND filter (F9 > 95%) or the PolyMIGHT PTFE filter (HEPA Filter 99.99%). The NanoBLEND filter has a higher filter surface area so it will offer longer run times between cleaning and is better suited to low alloy materials. The PolyMIGHT PTFE filter is better suited to high alloy materials and has a lower surface area so will need to be cleaned more often. Both filters are available. The PRO systems will come standard with the NanoBLEND filter to increase surface area.

Bomaksan PULSE

Part Number: BPULSE13



| | BPULSE13 |
|----------------------------------|------------------------|
| Wire Suitability | ALL |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | Yes |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | Yes |
| Occasional Flux Cored | Yes |
| Regular Flux Cored | Yes |
| Continuous Flux Cored | Yes |
| Number of Nozzles/Arms | 1 |
| Length of Arms or Hose (m) | 3 |
| Filter Efficiency | 99.99% (H13 HEPA) |
| Filter Type | Auto Pulse Cleaning |
| Filter Surface (m ²) | 10 x 2 (Auto Cleaning) |
| Airflow (m ³ /h) | 1400 |
| Number of Filters | 2 |
| Fume Tray Volume (l) | 16 |
| Working Hour Counter | Yes |
| Filter Sensor & Indicator | Yes |
| Fan Rotation Direction Indicator | Yes |
| Weight (without arm) | 242kg |
| Dimensions (H x W x D) | 1760 x 890 x 810 mm |
| Power Voltage (V) / Phases | 400 / 3 |
| Noise Level (dB(A)) | 73 |
| Warranty | 2 years |
| Compliance | CE Certified |

The Bomaksan PULSE is an industry leading, HEPA rated, mobile, single arm welding fume extraction unit.

Featuring automatic jet-pulse cleaning (compressed air 80 PSI), this unit is suitable for heavier welding fume environments and is suitable for all common welding applications including TIG, MIG, MMA, and Flux Cored.

The jet-pulse automatic cleaning system allows continuous operation and less frequent maintenance.

- 2 x HEPA class (99.99%) cleanable filters with automatic jet-pulse cleaning
- 3 metre arm with 360-degree swivel
- Control and signal panel with operating hour counter
- Extraction hood provides superior performance
- Easy to move and manoeuvre.

* The Bomaksan PULSE can be used with either the NanoBLEND filter (F9 > 95%) or the PolyMIGHT PTFE filter (HEPA Filter 99.99%). The NanoBLEND filter has a higher filter surface area so it will offer longer run times between cleaning and is better suited to low alloy materials. The PolyMIGHT PTFE filter is better suited to high alloy materials and has a lower surface area so will need to be cleaned more often. Both filters are available. The PULSE systems will come standard with the premium PolyMIGHT PTFE filters as jet-pulse cleaning negates the need for a larger surface area.

Nederman Welding Fume Protection System 1800

Part Number: FPS1800

| | FPS1800 |
|----------------------------------|---------------------|
| Wire Suitability | 0.9 - 1.2mm wire |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | OK |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | OK |
| Occasional Flux Cored | OK |
| Regular Flux Cored | Not Recommended |
| Continuous Flux Cored | Not Recommended |
| Number of Nozzles/Arms | 2 |
| Length of Arms or Hose (m) | 3 |
| Filter Efficiency | >99% (E12 Class) |
| Filter Type | Cleanable |
| Filter Surface (m ²) | 12 x 2 |
| Airflow (m ³ /h) | 500 - 900 x 2 |
| Number of Filters | 2 |
| Fume Tray Volume (l) | 10 |
| Working Hour Counter | No |
| Filter Sensor & Indicator | No |
| Fan Rotation Direction Indicator | No |
| Weight (without arm) | 210kg |
| Dimensions (H x W x D) | 1450 x 665 x 780 mm |
| Power Voltage (V) / Phases | 400 / 3 |
| Noise Level (dB(A)) | 72 |
| Warranty | 1 year |
| Compliance | CE Certified |



The FPS1800 is a mobile, twin-arm welding fume extraction unit, offering easy and trouble-free operation.

Featuring two flexible 3 metre extraction arms that can be swivelled 360 degrees, the unit is easy to position, ensuring there is no impact on the welding process.

Suitable for use across all medium welding fume producing applications, the two cleanable long-life cartridge filters ensure running costs are kept to a minimum.

- 2 x cleanable filters ensure low running costs
- 2 x 3-metre arms with 360-degree swivel
- Extraction hood provides superior performance
- Easy to move and manoeuvre
- Blow gun included for cleaning.

Bomaksan PRO2

Part Number: BPR023

| | BPR023 |
|----------------------------------|---------------------------------|
| Wire Suitability | 0.9 - 1.6mm wire |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | OK |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | OK |
| Occasional Flux Cored | OK |
| Regular Flux Cored | OK |
| Continuous Flux Cored | OK |
| Number of Nozzles/Arms | 2 |
| Length of Arms or Hose (m) | 3 |
| Filter Efficiency | 99.99% (H13 HEPA) or >95% (F9)* |
| Filter Type | Cleanable |
| Filter Surface (m ²) | 20 or 24* |
| Airflow (m ³ /h) | 1100 x 2 |
| Number of Filters | 1 |
| Fume Tray Volume (l) | 16 |
| Working Hour Counter | Yes |
| Filter Sensor & Indicator | Yes |
| Fan Rotation Direction Indicator | Yes |
| Weight (without arm) | 201kg |
| Dimensions (H x W x D) | 1320 x 650 x 815 mm |
| Power Voltage (V) / Phases | 400 / 3 |
| Noise Level (dB(A)) | 72 |
| Warranty | 2 years |
| Compliance | CE Certified |



The Bomaksan PRO2 is a professional, mobile, twin-arm welding fume extraction unit, available with a HEPA class (99.99%) cleanable filter.

The Bomaksan PRO2 is suitable for use across all medium welding fume producing applications.

- Cleanable filter ensures low running costs
- Large filter surface area of 24m²
- 2 x 3 metre arms with 360-degree swivel
- Control and signal panel with operating hour counter
- Extraction hood provides superior performance
- Easy to move and manoeuvre.

* The Bomaksan PRO can be used with either the nanoBLEND filter (F9 > 95%) or the polyMIGHT PTFE filter (HEPA Filter 99.99%). The nanoBLEND filter has a higher filter surface area so it will offer longer run times between cleaning and is better suited to low alloy materials. The polyMIGHT PTFE filter is better suited to high alloy materials and has a lower surface area so will need to be cleaned more often. Both filters are available. The PRO systems will come standard with the nanoBLEND filter to increase surface area.

Bomaksan PULSE2

Part Number: BPULSE23



| | BPULSE23 |
|----------------------------------|------------------------|
| Wire Suitability | ALL |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | Yes |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | Yes |
| Occasional Flux Cored | Yes |
| Regular Flux Cored | Yes |
| Continuous Flux Cored | Yes |
| Number of Nozzles/Arms | 2 |
| Length of Arms or Hose (m) | 3 |
| Filter Efficiency | 99.99% (H13 HEPA) |
| Filter Type | Auto Pulse Cleaning |
| Filter Surface (m ²) | 10 x 2 (Auto Cleaning) |
| Airflow (m ³ /h) | 1100 x 2 |
| Number of Filters | 2 |
| Fume Tray Volume (l) | 16 |
| Working Hour Counter | Yes |
| Filter Sensor & Indicator | Yes |
| Fan Rotation Direction Indicator | Yes |
| Weight (without arm) | 260kg |
| Dimensions (H x W x D) | 1760 x 890 x 810 mm |
| Power Voltage (V) / Phases | 400 / 3 |
| Noise Level (dB(A)) | 75 |
| Warranty | 2 years |
| Compliance | CE Certified |

The Bomaksan PULSE2 is an industry leading, HEPA rated, mobile, twin-arm welding fume extraction unit.

Featuring automatic jet-pulse cleaning (compressed air 80 PSI), this unit is suitable for heavier welding fume environments and is suitable for all common welding applications including TIG, MIG, MMA, and Flux Cored.

The jet-pulse automatic cleaning system allows continuous operation and less frequent maintenance.

- 2 x HEPA class cleanable filters with automatic jet-pulse cleaning
- 2 x 3 metre arms with 360-degree swivel
- Control and signal panel with operating hour counter
- Extraction hood provides superior performance
- Easy to move and manoeuvre.

* The Bomaksan PULSE can be used with either the NanoBLEND filter (F9 > 95%) or the PolyMIGHT PTFE filter (HEPA Filter 99.99%). The NanoBLEND filter has a higher filter surface area so it will offer longer run times between cleaning and is better suited to low alloy materials. The PolyMIGHT PTFE filter is better suited to high alloy materials and has a lower surface area so will need to be cleaned more often. Both filters are available. The PULSE systems will come standard with the premium PolyMIGHT PTFE filter as jet-pulse cleaning negates the need for a larger surface area.

Bomaksan BENCH

Part Number: BBENCH

| | BBENCH |
|----------------------------------|---------------------------------|
| Wire Suitability | ALL |
| Occasional TIG | Yes |
| Regular TIG | Yes |
| Continuous TIG | Yes |
| Occasional MMA | Yes |
| Regular MMA | Yes |
| Continuous MMA | Yes |
| Occasional MIG | Yes |
| Regular MIG | Yes |
| Continuous MIG | Yes |
| Occasional Flux Cored | Yes |
| Regular Flux Cored | OK |
| Continuous Flux Cored | OK |
| Number of Nozzles/Arms | - |
| Length of Arms or Hose (m) | - |
| Filter Efficiency | 99.99% (H13 HEPA) or >95% (F9)* |
| Filter Type | Cleanable |
| Filter Surface (m ²) | 30 or 40* |
| Airflow (m ³ /h) | 2600 |
| Number of Filters | 2 |
| Fume Tray Volume (l) | 24 |
| Working Hour Counter | Yes |
| Filter Sensor & Indicator | Yes |
| Fan Rotation Direction Indicator | Yes |
| Weight (without arm) | 500kg |
| Dimensions (H x W x D) | 1260 x 1500 x 1600 mm |
| Power Voltage (V) / Phases | 400 / 3 |
| Noise Level (dB(A)) | 67 |
| Warranty | 2 years |
| Compliance | CE Certified |



The Bomaksan BENCH combines all the benefits of a mobile LEV fume extraction system with a downdraft bench and is suitable for use across all medium-to-high welding fume producing applications.

- Equipped with a filter clog display, fan rotation direction display, ON/OFF switch, and working hour counter.
- Includes 2 x 230 V plugs and 1 compressed air plug for operators' hand tools.
- Expandable side panels allow you to expand the work-area.
- HEPA class (99.99%) cleanable cartridge filters extend filter lifetime and lower the cost of ownership.

Once connected to power, the Bomaksan Bench is completely self-sufficient, not requiring any ducting.

* The Bomaksan BENCH can be used with either the NanoBLEND filter (F9 > 95%) or the PolyMIGHT PTFE filter (HEPA Filter 99.99%). The NanoBLEND filter has a higher filter surface area so it will offer longer run times between cleaning and is better suited to low alloy materials. The PolyMIGHT PTFE filter is better suited to high alloy materials and has a lower surface area so will need to be cleaned more often. Both filters are available. The BENCH will come standard with the NanoBLEND filter to increase surface area.

Portable Local Exhaust Ventilation (LEV) Selector Table

● YES ● OK ● Not Recommended



| Specification | Nederman Welding Fume Protection System 860 | Nederman Welding Fume Protection System 900 | Bomaksan PRO | Bomaksan PULSE |
|----------------------------------|---|---|---|-------------------------|
| Part Number | FPS180 | FPS900 | BPR013 | BPULSE13 |
| Wire Suitability | 0.9 - 1.6mm wire | 0.9 - 1.2mm wire | 0.9 - 1.6mm wire | ALL |
| Occasional TIG | ● | ● | ● | ● |
| Regular TIG | ● | ● | ● | ● |
| Continuous TIG | ● | ● | ● | ● |
| Occasional MMA | ● | ● | ● | ● |
| Regular MMA | ● | ● | ● | ● |
| Continuous MMA | ● | ● | ● | ● |
| Occasional MIG | ● | ● | ● | ● |
| Regular MIG | ● | ● | ● | ● |
| Continuous MIG | ● | ● | ● | ● |
| Occasional Flux Cored | ● | ● | ● | ● |
| Regular Flux Cored | ● | ● | ● | ● |
| Continuous Flux Cored | ● | ● | ● | ● |
| Number of Nozzles/Arms | 1 | 1 | 1 | 1 |
| Length of Arms or Hose (m) | 2.5 | 3 | 3 | 3 |
| Filter Efficiency | 99.7% (F9) | >99% (E12 Class) | >95% (F9) or 99.99% (H13 HEPA Class) ¹ | 99.99% (H13 HEPA Class) |
| Filter Type | Disposable | Cleanable | Cleanable | Auto Pulse Cleaning |
| Filter Surface (m ²) | 5.3 | 12 | 24 or 20 ¹ | 10 x 2 (Auto Cleaning) |
| Airflow (m ³ /h) | Max. 180 | 500 - 900 | 1400 | 1400 |
| Number of Filters | 1 | 1 | 1 | 2 |
| Fume Tray Volume (l) | N/A | 10 | 16 | 16 |
| Working Hour Counter | No | No | Yes | Yes |
| Filter Sensor & Indicator | Yes | No | Yes | Yes |
| Fan Rotation Direction Indicator | No | No | Yes | Yes |
| Weight (without arm) | 16kg | 150kg | 183kg | 242kg |
| Dimensions (H x W x D) | 406 x 222 x 800 mm | 1200 x 665 x 780 mm | 1320 x 650 x 815 mm | 1760 x 890 x 810 mm |
| Power Voltage (V) / Phases | 230 / 1 | 230 / 1 | 400 / 3 | 400 / 3 |
| Noise Level (dB(A)) | 73 | 72 | 72 | 73 |
| Warranty | 1 year | 1 year | 2 years | 2 years |
| Compliance | CE Certified | CE Certified | CE Certified | CE Certified |

¹ The Bomaksan PRO, PULSE, and BENCH can be used with either the NanoBLEND filter (F9 > 95%) or the PolyMIGHT filter (HEPA Filter 99.99%). The NanoBLEND filter has a higher filter surface area so it will offer longer run times between cleaning and is better suited to low alloy materials. The PolyMIGHT filter is better suited to high alloy materials and has a lower surface area so will need to be cleaned more often. Both filters are available. The PRO and BENCH systems will come standard with the NanoBLEND filter to increase surface area. The PULSE will come standard with the premium PolyMIGHT filter as jet-pulse cleaning negates the need for a larger surface area.

4



High impact visors with integrated respiratory protection

The respiratory hazards generated by industrial applications are not only a risk to those conducting these applications, but also to those working in close proximity to them. This is vital to consider when sharing a high production, heavy-duty work environment, as the air may contain respiratory hazards that can remain airborne long after the work has been completed.*

Lightweight, compact and well balanced, the 3M™ Versaflo™ M-Series Face Shields with the award-winning Adflo™ Powered Air Purifying Respirator (PAPR) combine integrated face and respiratory protection with optional hearing and head protection: all conforming to the relevant Australian and New Zealand standards.



* For example, a carcinogenic welding fume particle that is 0.5 µm in size can take 2 days to reach the floor when released from a height of 1.5 metres. This in turn puts all surrounding workers at risk long after welding has been completed.

3M™ Versaflo™ M-Series Face Shields with Adflo™ PAPR



3M™ Versaflo™ Face Shield M-207 with Adflo™ PAPR

- High impact face shield with chemical and scratch-resistant lens
- Excellent peripheral and downward vision
- Flame resistant face seal
- Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)*

Face protection

AS/NZS1337.1 (High Impact)

Respiratory protection

AS/NZS1716

Optional hearing protection

AS/NZS1270



3M™ Versaflo™ Face Shield & Safety Helmet M-307 with Adflo™ PAPR

- Built-in safety helmet
- High impact face shield with chemical and scratch-resistant lens
- Excellent peripheral and downward vision
- Flame resistant face seal
- Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)*

Head protection

AS/NZS1801

Face protection

AS/NZS1337.1 (High Impact)

Respiratory protection

AS/NZS1716

Optional hearing protection

AS/NZS1270



3M™ Versaflo™ Flip-Up Face Shield & Safety Helmet M-407 with Adflo™ PAPR

- Flip-up high impact face shield with chemical and scratch-resistant lens
- Flame resistant shroud for additional head, shoulder and neck coverage
- Built-in safety helmet
- Excellent peripheral and downward vision
- Adflo PAPR supplies at least 50 times cleaner air (RMPF = 50)*

Head protection

AS/NZS1801

Face protection

AS/NZS1337.1 (High Impact)

Respiratory protection

AS/NZS1716

* For more information on the Adflo PAPR, visit pages 32-33.

3M™ Versaflo™ Face Shield M-207

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.



Designed from inception to accept 3M™ Peltor™ H31 Earmuffs (Class 3).

Coated visor provides added chemical and scratch resistance.

Fully adjustable head harness that includes straps for an optimal fit and improved weight distribution.

New visor design combines excellent peripheral and downward vision with premium optical quality.

Features a flame-resistant polyester face seal for applications with hot particles.



3M™ Versaflo™ M-207 Face Shield with Adflo™ PAPER (8 hour battery)
Part Number: 89 02 07

3M™ Versaflo™ M-207 Face Shield with Heavy-Duty Adflo™ PAPER (12 hour battery)
Part Number: 890207HD

3M™ Versaflo™ Face Shield & Safety Helmet M-307

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.



Designed from inception to accept 3M™ Peltor™ H31 Earmuffs (Class 3).

The safety helmet is made from heat-resistant polycarbonate and conforms to Australian and New Zealand Standard AS/NZS1801 for head protection.

Coated visor provides added chemical and scratch resistance.

Fully adjustable head harness that includes straps for an optimal fit and improved weight distribution.

New visor design combines excellent peripheral and downward vision with premium optical quality.

Features a flame-resistant polyester face seal for applications with hot particles.



3M™ Versaflo™ M-307 Face Shield & Safety Helmet with Adflo™ PAPER (8 hour battery)
Part Number: 89 03 07

3M™ Versaflo™ M-307 Face Shield & Safety Helmet with Heavy-Duty Adflo™ PAPER (12 hour battery)
Part Number: 890307HD

3M™ Versaflo™ Flip-Up Face Shield & Safety Helmet M-407

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Flip-up mechanism to lift visor when necessary.

Coated visor provides added chemical and scratch resistance.

New visor design combines excellent peripheral and downward vision with premium optical quality.

The safety helmet is made from heat-resistant polycarbonate and conforms to Australian and New Zealand Standard AS/NZS1801 for head protection.

Fully adjustable head harness that includes straps for an optimal fit and improved weight distribution.

Flame resistant shroud for additional head, shoulder and neck coverage against hot particles.



3M™ Versaflo™ M-407 Flip-Up Face Shield & Safety Helmet with Adflo™ PAPR (8 hour battery)
Part Number: 89 04 07

3M™ Versaflo™ M-407 Flip-Up Face Shield & Safety Helmet with Heavy-Duty Adflo™ PAPR (12 hour battery)
Part Number: 890407HD

Already use Adflo PAPR on-site?

The M-Series Face Shields with Adflo PAPR use the same respiratory spare parts as the Speedglas powered air welding helmets used by so many welders on-site.

This in turn makes these systems easy to maintain, saving both time and money in the long run.



WELDING GLOVES

THIS IS GUIDE

AWS have teamed up with Swedish glove powerhouse – GUIDE – to launch a range of welding gloves, boasting the most cutting-edge features found in the welding industry.

AWS have played a key role in the development of this range and as a result, these welding gloves have been built based specifically on what Australian and New Zealand welders want and need in their welding gloves.

WELDING GLOVES



GUIDE 3572

Pg. 82

GAME CHANGING GLOVE WITH CUT F



GUIDE 3571

Pg. 83

SUPERIOR COMFORT WITH CUT C



GUIDE 3569

Pg. 83

QUALITY WELDING GLOVE

TIG WELDING GLOVES



GUIDE 1342

Pg. 84

TIG GLOVE WITH A DIFFERENCE (CUT C)



GUIDE 1230

Pg. 85

UNRIVALLED DEXTERITY



GUIDE 1270

Pg. 85


QUALITY TIG WELDING GLOVE





GUIDE 3572 - "THE RED BACK"

GUIDE 3572, known in the industry as “The Red Back”, raises the bar in professional welding gloves. Lined with Kevlar, glass fibre, and high-performance polyethylene (HPPE), the GUIDE 3572 achieves the highest cut protection level possible – level F. The GUIDE 3572 combines soft goat grain leather on the palm, normally reserved for the dexterity demands of TIG welding, with precisely placed cow split leather reinforcements and padding to deliver extreme ambient heat protection. GUIDE 3572 combines the highest possible cut protection with unrivalled comfort, dexterity, and fit. Put the ‘Red Back’ up against any professional welding glove on the market to experience the next ‘welding glove of choice’ for professional welders.

- ▶ LEGENDARY GUIDE FIT
- ▶ CUT PROTECTION LEVEL F
- ▶ LINED WITH KEVLAR, GLASS FIBRE, & HPPE
- ▶ PRECISE REINFORCEMENTS & PADDING
- ▶ KEVLAR SEAMS
- ▶ SIZE 8-11

 EN 388:2016*
3X32F

 EN 407:2020*
413243

 EN 12477:2001
TYPE A



GUIDE 3571

GUIDE 3571 are welding gloves with a difference - made from full-grain goatskin leather, turned inside out. This inside-out feature provides a hard wearing and durable exterior with a super comfortable interior that delivers a softer feel, greater dexterity, and enhanced flexibility. The GUIDE 3571 is lined with Kevlar with extra lining on the back of the hand made of Nomex, offering excellent durability and protection from heat. Featuring level C cut protection and reinforced palms, the GUIDE 3571 is a seriously unique, comfortable, and durable welding glove.

- ▶ LEGENDARY GUIDE FIT
- ▶ CUT PROTECTION LEVEL C
- ▶ LINED WITH KEVLAR & NOMEX
- ▶ REINFORCED PALM
- ▶ KEVLAR SEAMS
- ▶ SIZE 8-11



EN 388:2016*
3X32C



EN 407:2020*
413244



EN 12477:2001
TYPE A

GUIDE 3569

GUIDE 3569 cow split leather welding gloves are suitable for MIG and MMA welding and other high heat applications. The glove has reinforcement in the palm and a super comfortable cotton lining. The legendary GUIDE resting fit moulds to the shape of your hand and the Kevlar heat-resistant seams mean these gloves will stand up to the toughest jobs.

- ▶ LEGENDARY GUIDE FIT
- ▶ FULLY LINED COW SPLIT LEATHER
- ▶ REINFORCED PALMS
- ▶ KEVLAR SEAMS
- ▶ SIZE 9-11



EN 388:2016*
4143X



EN 407:2020*
41324X



EN 12477:2001
TYPE A



* The Australian and New Zealand standards for welding gloves have been directly adopted from the European glove standards. AS/NZS2161.3:2020 is exactly the same as 388:2016+A1:2018, so the range of GUIDE welding gloves shown are fully compliant with this AS/NZS standard. EN407:2020 was updated in 2020 and includes more rigorous testing methods than the current AS/NZS2161.4:1999 standard (last updated in 1999). GUIDE gloves meet or exceed the test specifications required by the EN407:2020 standard.

GUIDE 1342 - "THE HYBRID"

Game changing GUIDE 1342 is a TIG welding glove with a difference. A super unique 'hybrid' type welding glove that combines premium comfort and feel with added cut protection and heat relief not normally found in TIG welding gloves. Unlike most TIG welding gloves, the GUIDE 1342 features cut protection level C and extra lining to offer added relief from heat. GUIDE 1342 combines these unique features with a super comfortable welding glove with excellent touch and feel that must be tried to be believed.

- ▶ LEGENDARY GUIDE FIT
- ▶ CUT PROTECTION LEVEL C
- ▶ GOAT GRAIN LEATHER
- ▶ LINED
- ▶ KEVLAR SEAMS
- ▶ COW SPLIT LEATHER CUFF
- ▶ SIZE 7-11



EN 388:2016*
3X32C



EN 407:2020*
412X4X



EN 12477:2001
TYPE B



GUIDE 1230

The GUIDE 1230 takes dexterity and comfort to another level. One of the thinnest and softest TIG welding gloves available, the GUIDE 1230 is made from the best possible goat grain leather. If you're looking for the best TIG welding glove on the market from a dexterity, comfort, and performance perspective, you must experience the GUIDE 1230.

- ▶ LEGENDARY GUIDE FIT
- ▶ THIN & COMFORTABLE – HIGHEST LEVEL OF DEXTERITY
- ▶ GOAT GRAIN LEATHER
- ▶ KEVLAR SEAMS
- ▶ COW SPLIT LEATHER CUFF
- ▶ SIZE 7-11



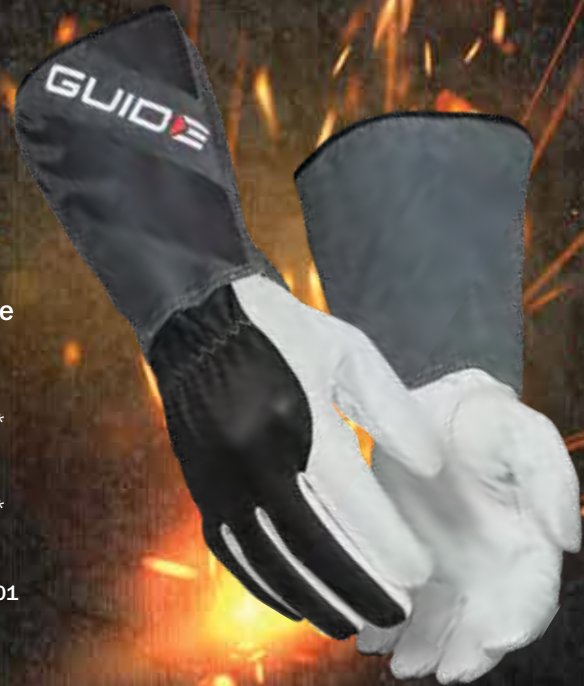
EN 388:2016*
2111X



EN 407:2020*
411X4X



EN 12477:2001
TYPE B



GUIDE 1270

The GUIDE 1270 is a TIG welding glove made from durable and soft goat grain leather. The cuff is made from cow split leather with a comfortable cotton lining. All seams are made from heat-resistant Kevlar. The glove is moulded to the welder's hand offering excellent dexterity and a perfect fit. Comfortable and offering excellent touch and feel, these welding gloves are designed for precision TIG welding.

- ▶ LEGENDARY GUIDE FIT
- ▶ GOAT GRAIN LEATHER
- ▶ KEVLAR SEAMS
- ▶ COW SPLIT LEATHER CUFF
- ▶ SIZE 9-11



EN 388:2016*
2111X



EN 407:2020*
412X4X



EN 12477:2001
TYPE B



* The Australian and New Zealand standards for welding gloves have been directly adopted from the European glove standards. AS/NZS2161.3:2020 is exactly the same as 388:2016+A1:2018, so the range of GUIDE welding gloves shown are fully compliant with this AS/NZS standard. EN407:2020 was updated in 2020 and includes more rigorous testing methods than the current AS/NZS2161.4:1999 standard (last updated in 1999). GUIDE gloves meet or exceed the test specifications required by the EN407:2020 standard.

KNOWING THE STANDARDS IS KEY

Knowing the standards and what the product markings represent will allow you to tell the difference between each glove. What are the standards and how do we read them?

AS/NZS2161.3.2020 = (EN388:2016)

Standard for protection against mechanical risks. This standard applies to gloves designed to protect against physical or mechanical risks such as abrasion, blades, punctures, or tears. As an example, the GUIDE 3572 has a rating as follows:



- 1. Abrasion**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 2. Cut**
Old testing method: used a blade that was reused over and over and blunted as a result. Not an accurate measure. Marked with an X because this glove is no longer tested using the old method.
- 3. Tear**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 4. Puncture**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 5. Cut**
New testing method: A new cut test using a fresh blade for every cut. More accurate. Marked with A to F, where F is the best.

AS/NZS2161.4.1999 ≠ (EN407:2020)*

Standard for protection against heat and/or fire. As an example, The GUIDE 3572 has a rating as follows:



- 1. Flame**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 2. Contact Heat**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 3. Convective Heat**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 4. Radiant Heat**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 5. Small splashes of molten metal**
Marked with 1-4 where 4 is the best and 1 is the worst.
- 6. Large splashes of molten metal**
Marked with 1-4 where 4 is the best and 1 is the worst.

EN12477 - PROTECTION AGAINST THE RISKS OF WELDING

No direct Australian/New Zealand standard for this European standard.

This standard certifies gloves designed to provide protection for both the hand and wrist while welding and is really a combination from testing EN388 and EN407. Welding gloves provide resistance to small splashes of molten metal, short exposure to convective heat/radiant heat and blade cuts.

Type A refers to gloves that shall provide a slightly higher level of protection against heat (heat and welding gloves).

Type B refers to gloves that provide lower protection against heat, but they are more flexible and pliable (TIG welding gloves).

***EN vs AS/NZS**

The Australian and New Zealand standards for welding gloves have been directly adopted from the European glove standards. AS/NZS2161.3.2020 is exactly the same as 388:2016+A1:2018, so the range of GUIDE welding gloves shown are fully compliant with this AS/NZS standard. EN407:2020 was updated in 2020 and includes more rigorous testing methods than the current AS/NZS2161.4.1999 standard (last updated in 1999). GUIDE gloves meet or exceed the test specifications required by the EN407:2020 standard.



Parts Directory

Looking for a specific spare part, consumable or accessory?

Use the AWS Spare Part Finder Tool here!



3M™ Speedglas™ Non-Respiratory Welding Helmets

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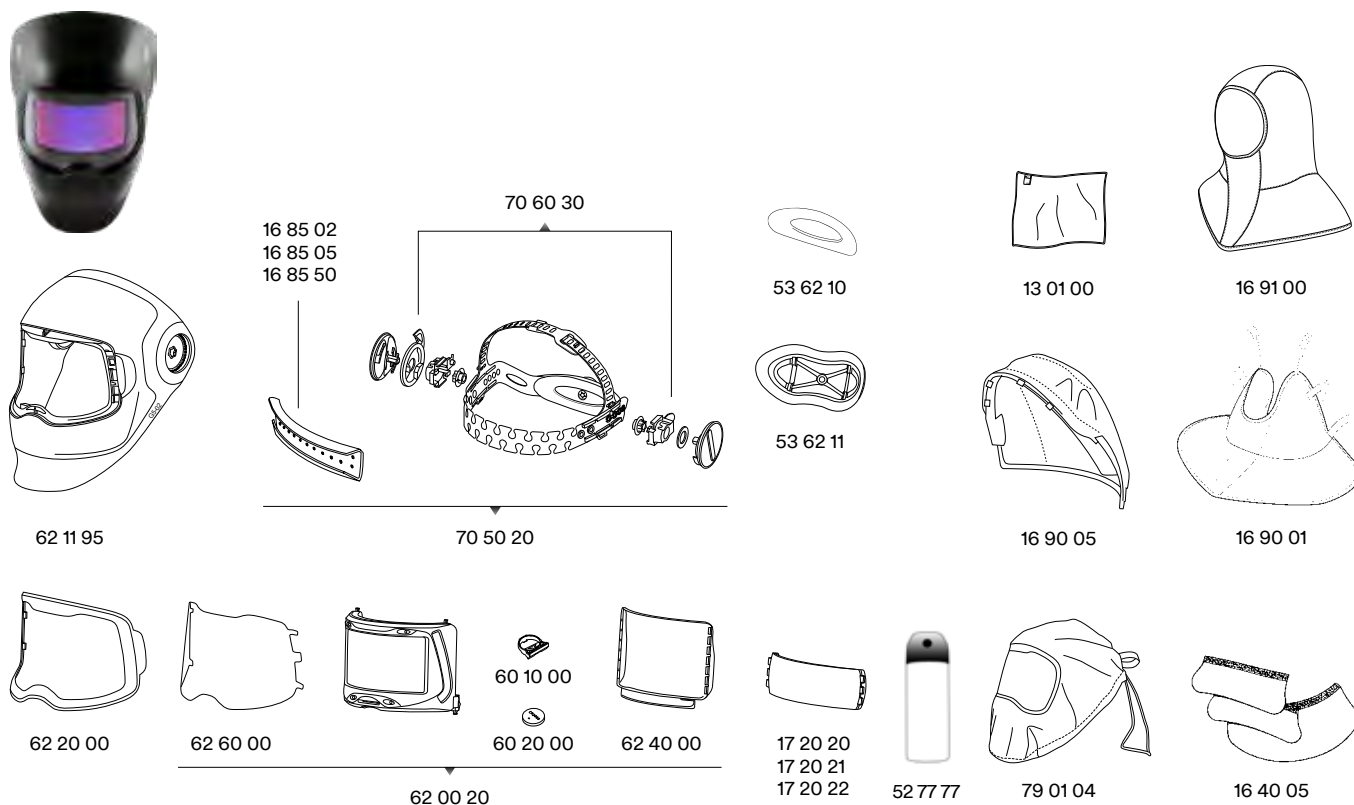
3M™ Versaflo™ M-Series Face Shields with Adflo™ PAPR

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Speedglas™

Spare parts & consumables

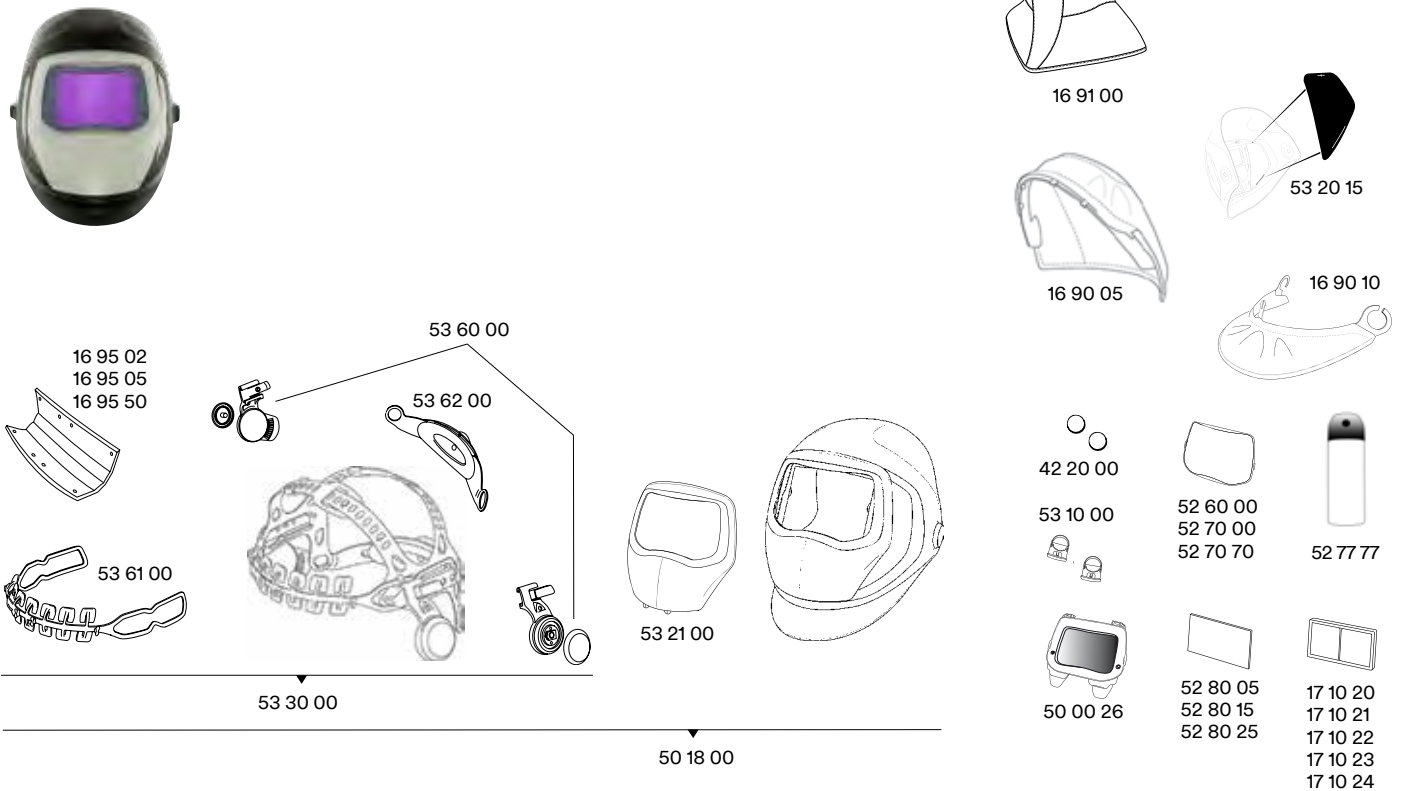


| Part No. | Description | Part No. | Description |
|----------|-----------------------------------|----------|---|
| 13 01 00 | 3M Cleaning Wipe | 53 62 11 | Head Harness Back Cushion (Large) |
| 16 40 05 | Ear/Throat Protection Leather | 60 10 00 | Battery Holder |
| 16 85 02 | Sweatband Pk=2 | 60 20 00 | Battery CR2450 |
| 16 85 05 | Sweatband Pk=5 | 62 00 20 | Speedglas Curved Welding Lens G5-02 |
| 16 85 50 | Sweatband Pk=50 | 62 11 95 | Helmet Exc Welding Lens, Head Harness & Front Cover |
| 16 90 01 | Throat Protection Tecaweld | 62 20 00 | Front Cover |
| 16 90 05 | Head Cover | 62 40 00 | Lens Cover Inner Pk=2 |
| 16 91 00 | Head Cape Tecaweld | 62 60 00 | Lens Cover Outer Hard Coated Pk=5 |
| 17 20 20 | Magnifying Lens 1.5X | 70 50 20 | Head Harness G5-02 |
| 17 20 21 | Magnifying Lens 2.0X | 70 60 30 | Head Harness Pivot Mechanisms |
| 17 20 22 | Magnifying Lens 2.5X | 79 01 04 | Helmet Storage Bag G5-02 |
| 52 77 77 | Mask Cleaning Spray 400ml | | |
| 53 62 10 | Head Harness Back Cushion (Small) | | |



Speedglas™

Spare parts & consumables

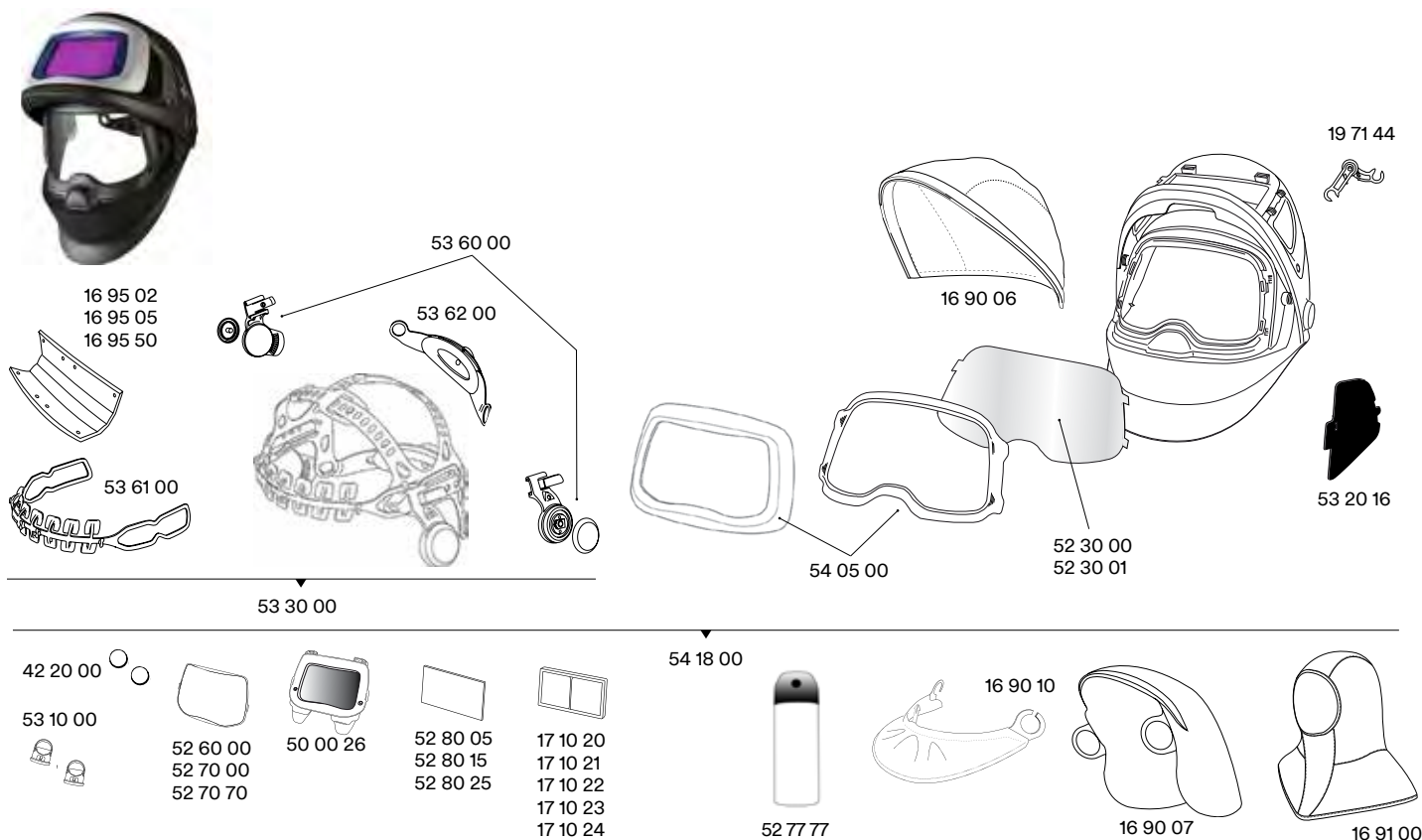


| Part No. | Description | Part No. | Description |
|----------|--------------------------------|----------|------------------------------------|
| 16 90 05 | Head Cover | 52 60 00 | Lens Cover Outer Standard Pk=10 |
| 16 90 10 | Throat Protection | 52 70 00 | Lens Cover Outer Hard Coated Pk=10 |
| 16 91 00 | Head Cape Tecaweld | 52 70 70 | Lens Cover Outer High Heat Pk=10 |
| 16 95 02 | Sweatband Pk=2 | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 95 05 | Sweatband Pk=5 | 52 80 05 | Lens Cover Inner 9100V Pk=5 |
| 16 95 50 | Sweatband Pk=50 | 52 80 15 | Lens Cover Inner 9100X Pk=5 |
| 17 10 20 | Magnifying Lens 1.0X | 52 80 25 | Lens Cover Inner 9100XX/XXi Pk=5 |
| 17 10 21 | Magnifying Lens 1.5X | 53 10 00 | Holder Battery 9100 Pk=2 |
| 17 10 22 | Magnifying Lens 2.0X | 53 20 15 | SideWindows Cover Plate Pk=2 |
| 17 10 23 | Magnifying Lens 2.5X | 53 21 00 | Front Cover |
| 17 10 24 | Magnifying Lens 3.0X | 53 30 00 | Head Harness 9100 |
| 42 20 00 | Battery Lithium Pk=2 | 53 60 00 | Head Harness Pivot Mechanism 9100 |
| 50 00 26 | Speedglas Welding Lens 9100XXi | 53 61 00 | Head Harness Front Part 9100 |
| 50 18 00 | Helmet Welding 9100 Exc Lens | 53 62 00 | Head Harness Back Part 9100 |



Speedglas™

Spare parts & consumables

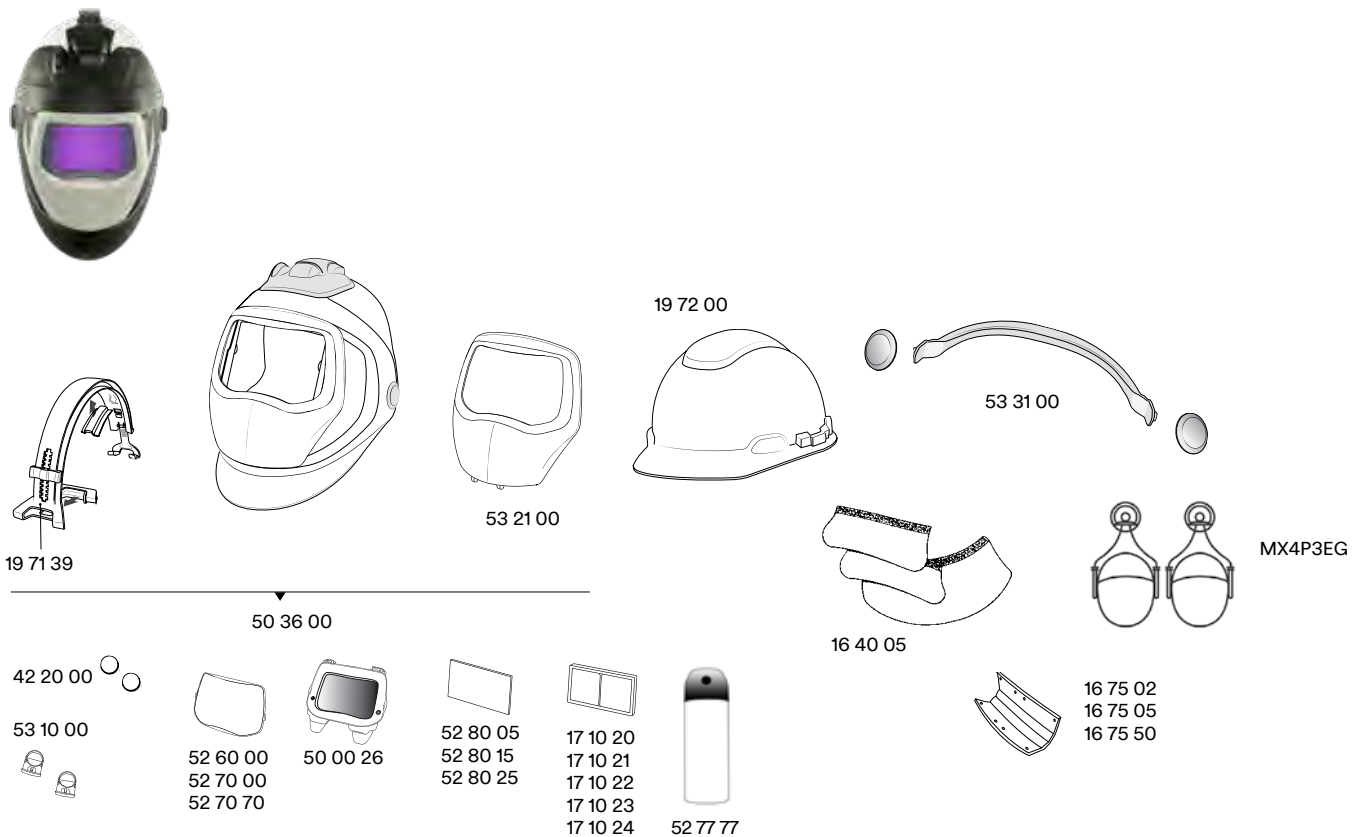


| Part No. | Description | Part No. | Description |
|----------|--------------------------------|----------|------------------------------------|
| 16 90 06 | Head Cover Small | 52 30 01 | Visor Plate Anti-Fog Pk=5 |
| 16 90 07 | Head Cover Large | 52 60 00 | Lens Cover Outer Standard Pk=10 |
| 16 90 10 | Throat Protection | 52 70 00 | Lens Cover Outer Hard Coated Pk=10 |
| 16 91 00 | Head Cape Tecaweld | 52 70 70 | Lens Cover Outer High Heat Pk=10 |
| 16 95 02 | Sweatband Pk=2 | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 95 05 | Sweatband Pk=5 | 52 80 05 | Lens Cover Inner 9100V Pk=5 |
| 16 95 50 | Sweatband Pk=50 | 52 80 15 | Lens Cover Inner 9100X Pk=5 |
| 17 10 20 | Magnifying Lens 1.0X | 52 80 25 | Lens Cover Inner 9100XX/XXi Pk=5 |
| 17 10 21 | Magnifying Lens 1.5X | 53 10 00 | Holder Battery 9100 Pk=2 |
| 17 10 22 | Magnifying Lens 2.0X | 53 20 16 | SideWindows Cover Plate Pk=2 |
| 17 10 23 | Magnifying Lens 2.5X | 53 30 00 | Head Harness 9100 |
| 17 10 24 | Magnifying Lens 3.0X | 53 60 00 | Head Harness Pivot Mechanism 9100 |
| 19 71 44 | Flip Up Mechanism Pk=2 | 53 61 00 | Head Harness Front Part 9100 |
| 42 20 00 | Battery Lithium Pk=2 | 53 62 00 | Head Harness Back Part 9100 |
| 50 00 26 | Speedglas Welding Lens 9100XXi | 54 05 00 | Front Cover Kit |
| 52 30 00 | Visor Plate Pk=5 | 54 18 00 | Helmet Welding Exc Lens 9100 FX |



Speedglas™

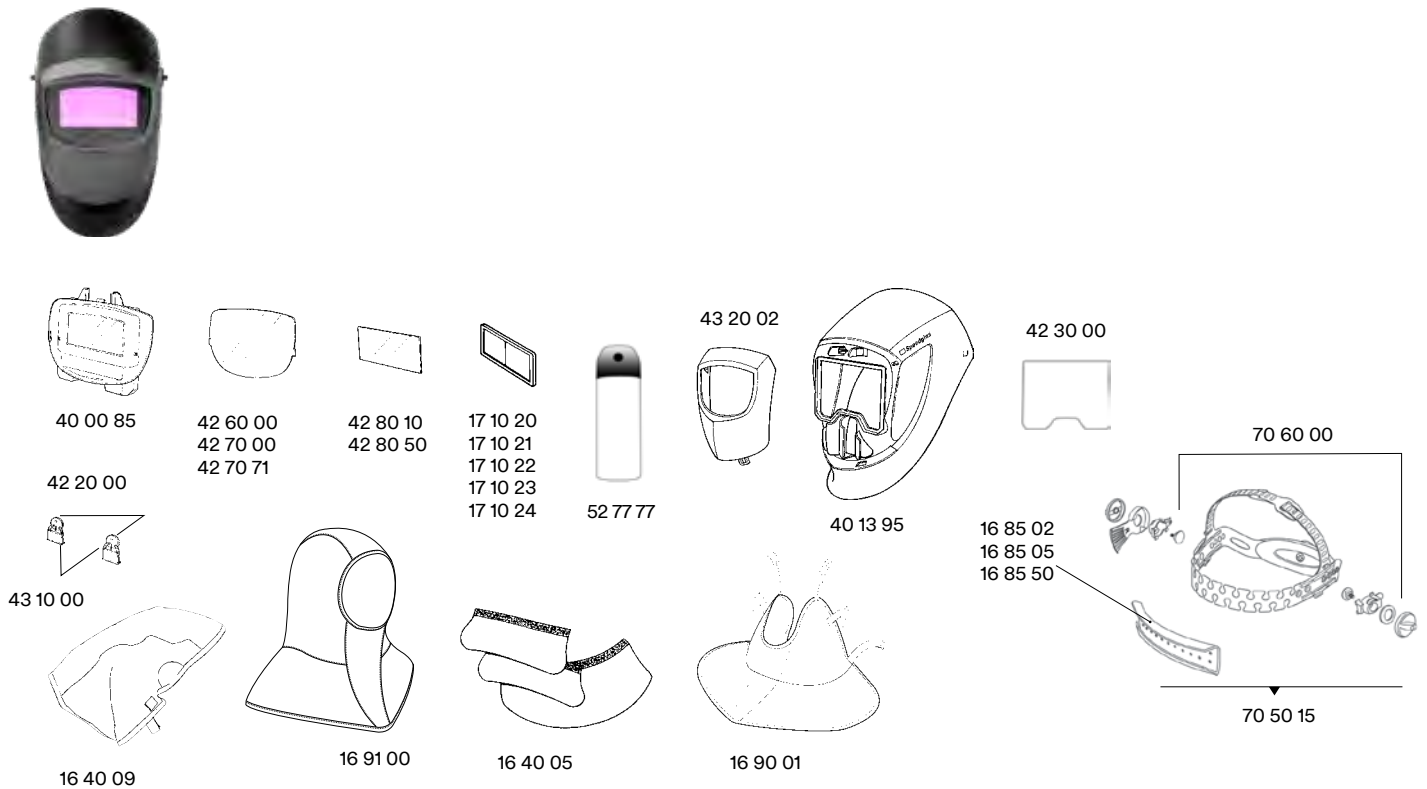
Spare parts & consumables



| Part No. | Description | Part No. | Description |
|----------|--|----------|------------------------------------|
| 16 40 05 | Ear/Throat Protection Leather | 52 60 00 | Lens Cover Outer Standard Pk=10 |
| 16 75 02 | Sweatband Pk=2 | 52 70 00 | Lens Cover Outer Hard Coated Pk=10 |
| 16 75 05 | Sweatband Pk=5 | 52 70 70 | Lens Cover Outer High Heat Pk=10 |
| 16 75 50 | Sweatband Pk=50 | 52 77 77 | Mask Cleaning Spray 400ml |
| 17 10 20 | Magnifying Lens 1.0X | 52 80 05 | Lens Cover Inner 9100V Pk=5 |
| 17 10 21 | Magnifying Lens 1.5X | 52 80 15 | Lens Cover Inner 9100X Pk=5 |
| 17 10 22 | Magnifying Lens 2.0X | 52 80 25 | Lens Cover Inner 9100XX/XXi Pk=5 |
| 17 10 23 | Magnifying Lens 2.5X | 53 10 00 | Holder Battery 9100 Pk=2 |
| 17 10 24 | Magnifying Lens 3.0X | 53 21 00 | Front Cover |
| 19 71 39 | Rail QR | 53 31 00 | Bar Ear Muff 9100 QR |
| 19 72 00 | White Hard Hat | MX4P3EG | Helmet Mounted Earmuffs |
| 42 20 00 | Battery Lithium Pk=2 | | |
| 50 00 26 | Speedglas Welding Lens 9100XXi | | |
| 50 36 00 | Helmet Welding Exc Lens & Hard Hat 9100 QR | | |



Spare parts & consumables

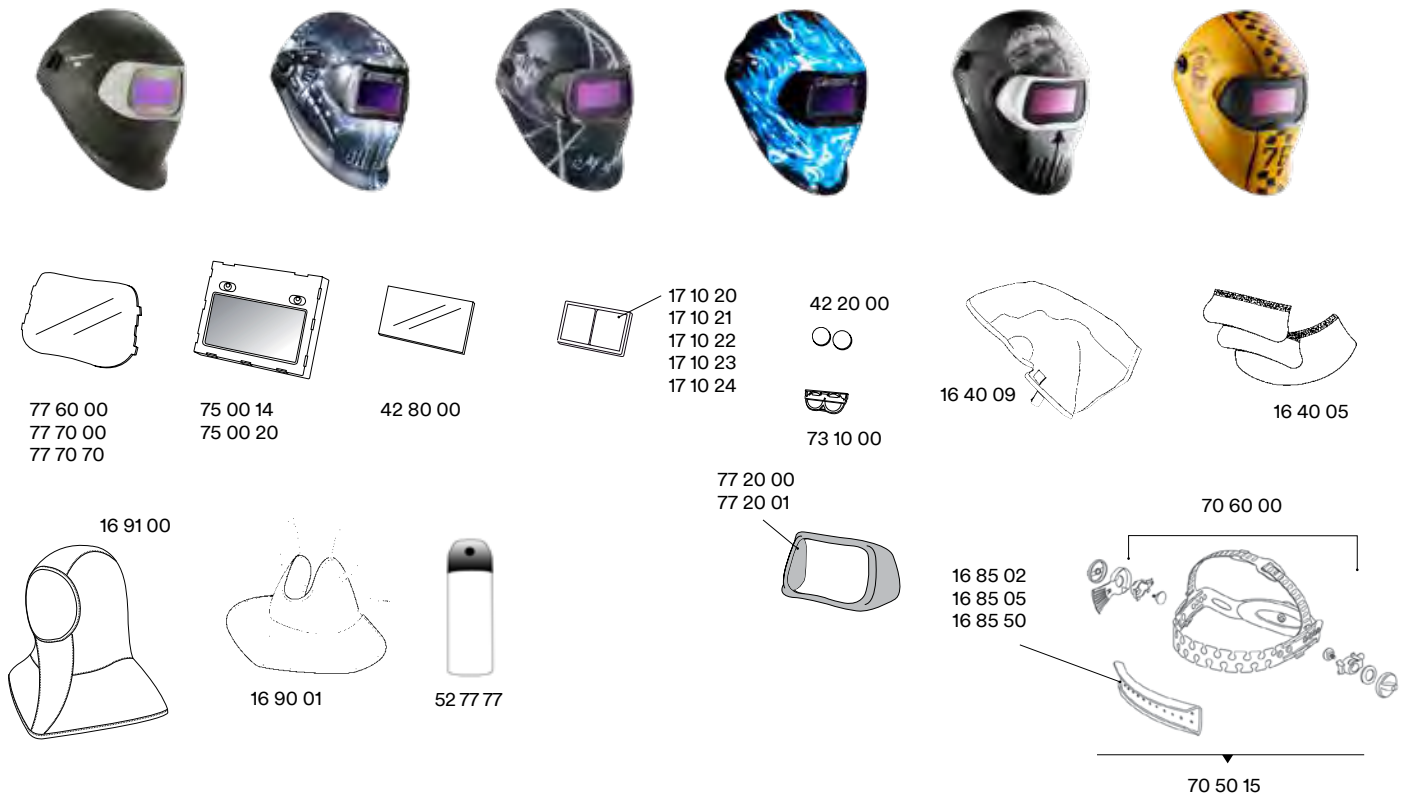


| Part No. | Description | Part No. | Description |
|----------|---|----------|--|
| 16 40 05 | Ear/Throat Protection Leather | 42 20 00 | Battery Lithium Pk=2 |
| 16 40 09 | Head Protection Tecaweld | 42 30 00 | Grinding Visor Plate Pk=10 |
| 16 85 02 | Sweatband Pk=2 | 42 60 00 | Lens Cover Outer Standard Pk=10 |
| 16 85 05 | Sweatband Pk=5 | 42 70 00 | Lens Cover Outer Hard Coated Pk=10 |
| 16 85 50 | Sweatband Pk=50 | 42 70 71 | Lens Cover Outer High Heat Pk=10 |
| 16 90 01 | Throat Protection Tecaweld | 42 80 10 | Lens Cover Inner 9002X/9002NC Pk=5 |
| 16 91 00 | Head Cape Tecaweld | 42 80 50 | Lens Cover Inner Shade 2 9002X/9002NC Pk=5 |
| 17 10 20 | Magnifying Lens 1.0X | 43 10 00 | Battery Holder Pk=2 |
| 17 10 21 | Magnifying Lens 1.5X | 43 20 02 | Silver Front Cover |
| 17 10 22 | Magnifying Lens 2.0X | 52 77 77 | Mask Cleaning Spray 400ml |
| 17 10 23 | Magnifying Lens 2.5X | 70 50 15 | Head Harness |
| 17 10 24 | Magnifying Lens 3.0X | 70 60 00 | Head Harness Attachments |
| 40 00 85 | Speedglas 9002NC Welding Lens | | |
| 40 13 95 | Shield Welding Exc Lens, Harness & Front 9002NC | | |



Speedglas™

Spare parts & consumables

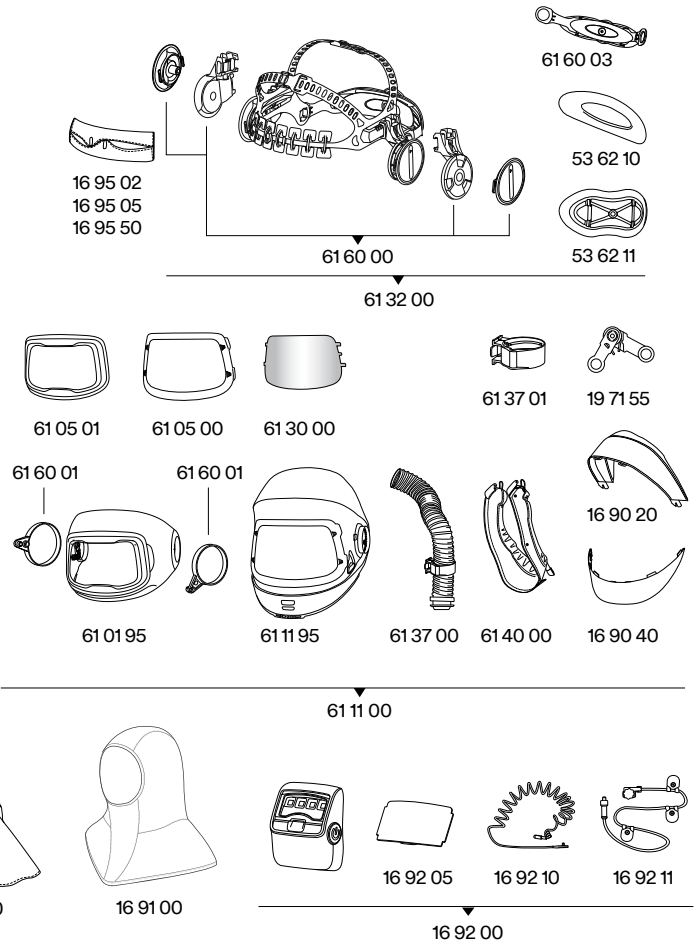
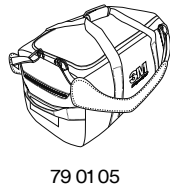
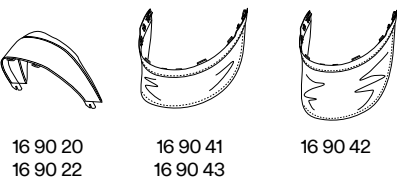
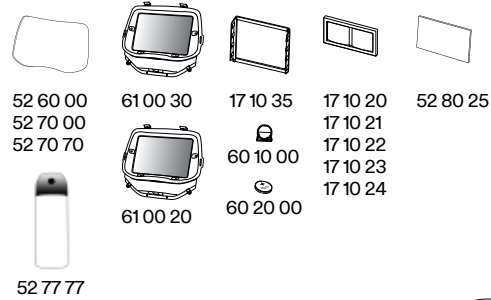


| Part No. | Description | Part No. | Description |
|----------|-------------------------------|----------|------------------------------------|
| 16 40 05 | Ear/Throat Protection Leather | 42 80 00 | Lens Cover Inner Pk=5 |
| 16 40 09 | Head Protection Tecaweld | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 85 02 | Sweatband Pk=2 | 70 50 15 | Head Harness |
| 16 85 05 | Sweatband Pk=5 | 70 60 00 | Head Harness Attachments |
| 16 85 50 | Sweatband Pk=50 | 73 10 00 | Holder Battery |
| 16 90 01 | Throat Protection Tecaweld | 75 00 14 | Speedglas 100B Welding Lens |
| 16 91 00 | Head Cape Tecaweld | 75 00 20 | Speedglas 100V Welding Lens |
| 17 10 20 | Magnifying Lens 1.0X | 77 20 00 | Cover Front Silver |
| 17 10 21 | Magnifying Lens 1.5X | 77 20 01 | Cover Front Black |
| 17 10 22 | Magnifying Lens 2.0X | 77 60 00 | Lens Cover Outer Standard Pk=10 |
| 17 10 23 | Magnifying Lens 2.5X | 77 70 00 | Lens Cover Outer Hard Coated Pk=10 |
| 17 10 24 | Magnifying Lens 3.0X | 77 70 70 | Lens Cover Outer High Heat Pk=10 |
| 42 20 00 | Battery Lithium Pk=2 | | |



Speedglas™

Spare parts & consumables

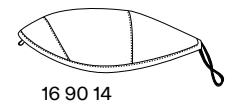
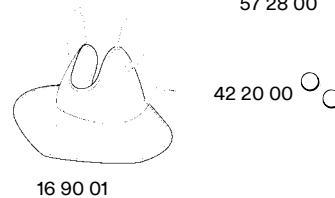
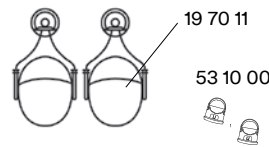
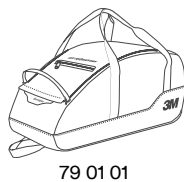
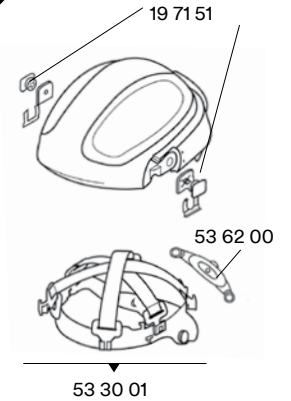
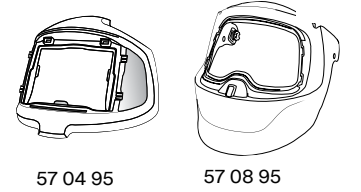
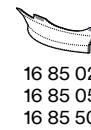
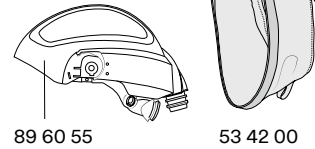
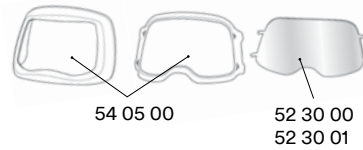
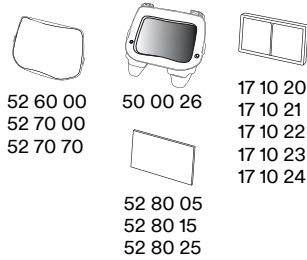


| Part No. | Description | Part No. | Description |
|----------|---|----------|--|
| 16 90 20 | Head Protection Fabric (Small) | 52 70 70 | Lens Cover Outer High Heat Pk=10 |
| 16 90 22 | Head Protection Leather | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 90 23 | Head Protection Fabric (Large) | 52 80 25 | Lens Cover Inner Pk=5 |
| 16 90 30 | Shroud | 53 62 10 | Head Harness Back Cushion (Small) |
| 16 90 35 | Extended Cover Kit (Shroud and Large Head Cover Fabric) | 53 62 11 | Head Harness Back Cushion (Large) |
| 16 90 40 | Neck Protection Rigid | 60 10 00 | Battery Holder |
| 16 90 41 | Neck Protection Fabric (Small) | 60 20 00 | Battery CR2450 |
| 16 90 42 | Neck Protection Fabric (Large) | 61 00 20 | Speedglas Welding Lens G5-01TW |
| 16 90 43 | Neck Protection Leather | 61 00 30 | Speedglas Welding Lens G5-01VC |
| 16 91 00 | Head Cape Tecaweld | 61 01 95 | Outer Shield |
| 16 92 00 | Task Light, Inc Mounting Parts & Cables | 61 05 00 | Front Cover for Inner Visor |
| 16 92 05 | Lens Cover Task Light Pk=5 | 61 05 01 | Front Cover for Flip-up |
| 16 92 10 | Long Power Cable for Task Light | 61 11 00 | Welding Helmet G5-01, Exc Lens |
| 16 92 11 | Short Power Cable for Task Light | 61 11 20 | Speedglas G5-01TW Upgrade Kit, Exc Adflo |
| 16 95 02 | Sweatband G5-01 Pk=2 | 61 11 30 | Speedglas G5-01VC Upgrade Kit, Exc Adflo |
| 16 95 05 | Sweatband G5-01 Pk=5 | 61 11 95 | Inner Shield with Airduct & Airflow Controls Inc Visor Frame |
| 16 95 50 | Sweatband G5-01 Pk=50 | 61 30 00 | Visor Plate Anti-Fog Hard Coated Pk=5 |
| 17 10 20 | Magnifying Lens 1.0X | 61 32 00 | Head Harness G5-01 |
| 17 10 21 | Magnifying Lens 1.5X | 61 37 00 | Airduct Breathing Tube (Short) Inc Holder |
| 17 10 22 | Magnifying Lens 2.0X | 61 37 01 | Breathing Tube Holder |
| 17 10 23 | Magnifying Lens 2.5X | 61 40 00 | Face Seal G5-01 |
| 17 10 24 | Magnifying Lens 3.0X | 61 60 00 | Pivot & Sliding Mechanism Inc Pivot Knobs |
| 17 10 35 | Magnifying Lens Holder | 61 60 01 | Pivot Ring for Outer Shield Pk=1 |
| 19 71 55 | Hinge Mechanism Pk=2 | 61 60 03 | Head Harness Back Part G5-01 |
| 52 60 00 | Lens Cover Outer Standard Pk=10 | 61 78 00 | Speedglas G5-01 with Adflo, Exc Lens & Bag |
| 52 70 00 | Lens Cover Outer Hard Coated Pk=10 | 79 01 05 | Carry Bag |



Speedglas™

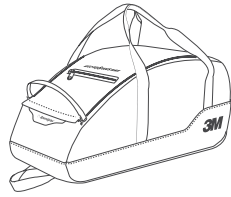
Spare parts & consumables



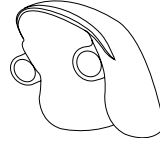
| Part No. | Description | Part No. | Description |
|----------|------------------------------------|----------|--|
| 16 85 02 | Sweatband Pk=2 | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 85 05 | Sweatband Pk=5 | 52 80 05 | Lens Cover Inner 9100V Pk=5 |
| 16 85 50 | Sweatband Pk=50 | 52 80 15 | Lens Cover Inner 9100X Pk=5 |
| 16 90 01 | Throat Protection Tecaweld | 52 80 25 | Lens Cover Inner 9100XX/XXi Pk=5 |
| 16 90 14 | Cover Hard Hat | 53 10 00 | Holder Battery 9100 Pk=2 |
| 17 10 20 | Magnifying Lens 1.0X | 53 20 16 | SideWindows Cover Plate Pk=2 |
| 17 10 21 | Magnifying Lens 1.5X | 53 30 01 | Head Harness 9100 MP |
| 17 10 22 | Magnifying Lens 2.0X | 53 42 00 | Face Seal |
| 17 10 23 | Magnifying Lens 2.5X | 53 62 00 | Head Harness Back Part 9100 |
| 17 10 24 | Magnifying Lens 3.0X | 54 05 00 | Front Cover Kit |
| 19 70 11 | Earmuffs with Helmet Attachment | 57 04 95 | Shell Outer |
| 19 71 50 | Flip Up Mechanism | 57 08 95 | Shell Inner |
| 19 71 51 | Pivot Kit | 57 28 00 | Helmet Welding With Hard Hat |
| 42 20 00 | Battery Lithium Pk=2 | 57 77 00 | Speedglas 9100 MP Air with Adflo, Exc Welding Lens & Bag |
| 50 00 26 | Speedglas Welding Lens 9100XXi | 57 90 26 | Speedglas 9100XXi MP Air Upgrade Kit, Exc Adflo |
| 52 30 00 | Visor Plate Pk=5 | 79 01 01 | Carry Bag |
| 52 30 01 | Visor Plate Anti-Fog Pk=5 | 89 60 55 | Hard Hat |
| 52 60 00 | Lens Cover Outer Standard Pk=10 | | |
| 52 70 00 | Lens Cover Outer Hard Coated Pk=10 | | |
| 52 70 70 | Lens Cover Outer High Heat Pk=10 | | |



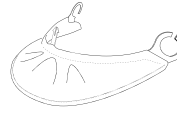
Spare parts & consumables



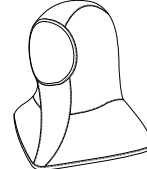
79 01 01



16 90 07



16 90 10



16 91 00



83 40 19

42 20 00



52 60 00
52 70 00
52 70 70



50 00 26



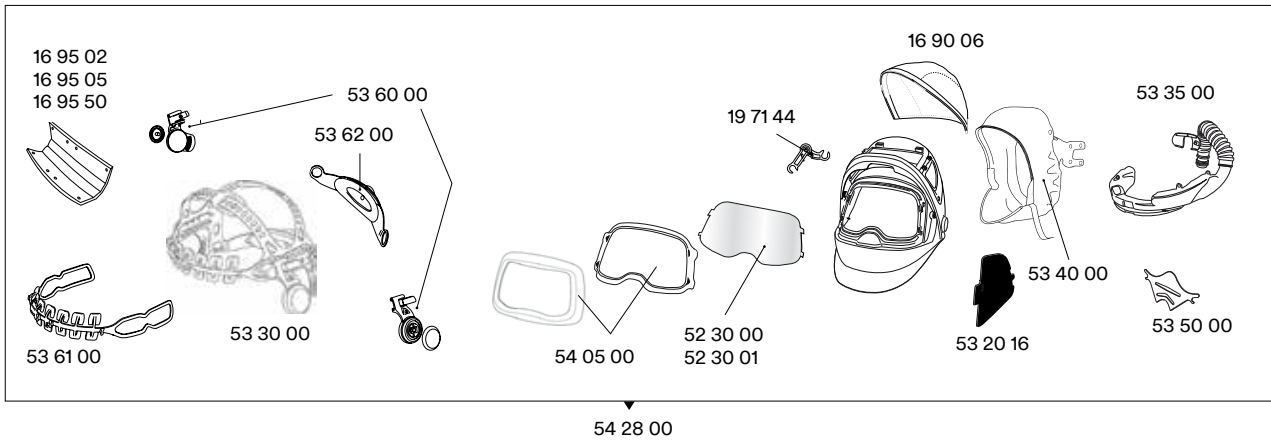
52 80 05
52 80 15
52 80 25



17 10 20
17 10 21
17 10 22
17 10 23
17 10 24



52 77 77

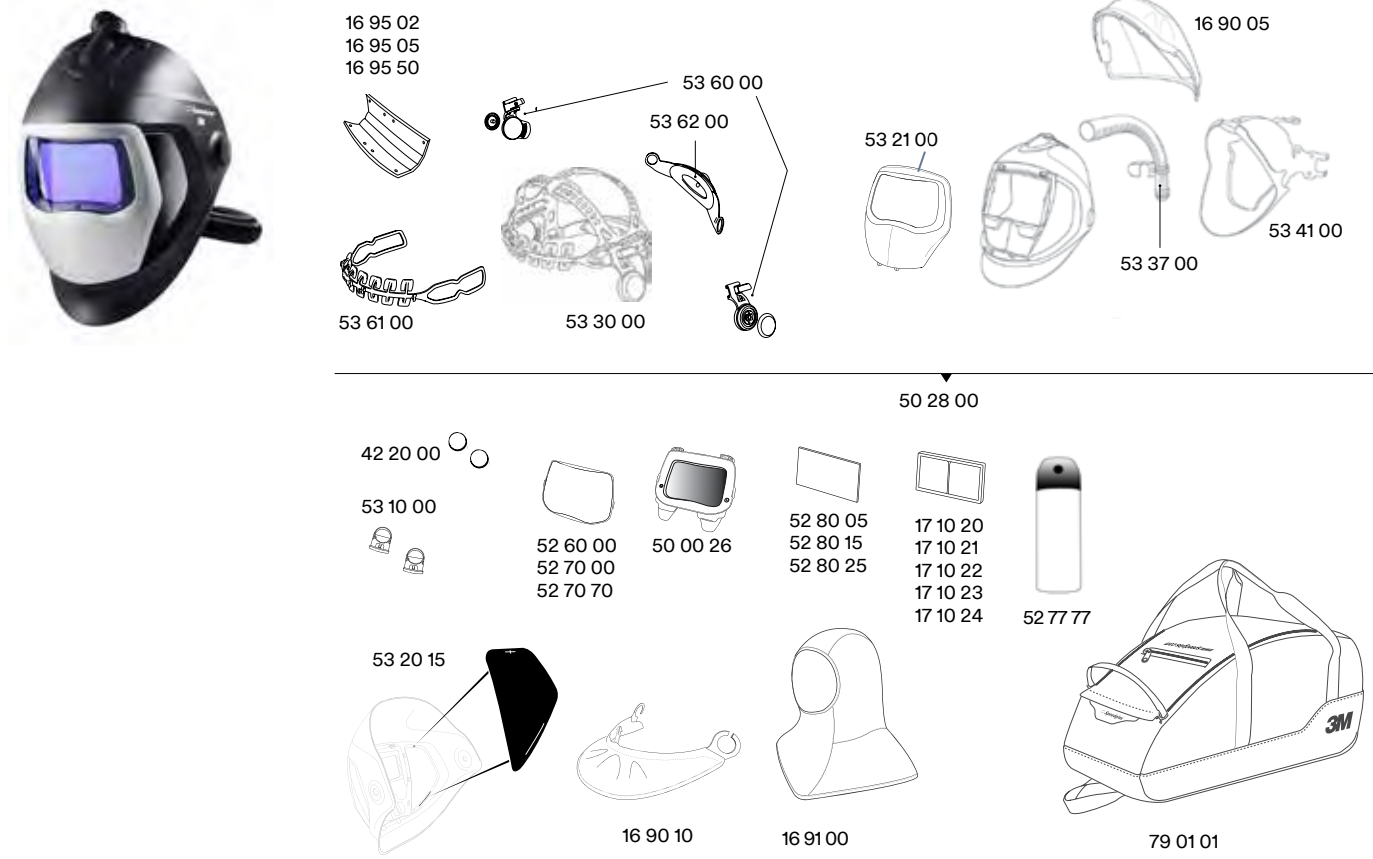


| Part No. | Description | Part No. | Description |
|----------|------------------------------------|----------|-------------------------------------|
| 16 90 06 | Head Cover Small | 52 70 70 | Lens Cover Outer High Heat Pk=10 |
| 16 90 07 | Head Cover Large | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 90 10 | Throat Protection | 52 80 05 | Lens Cover Inner 9100V Pk=5 |
| 16 91 00 | Head Cape Tecaweld | 52 80 15 | Lens Cover Inner 9100X Pk=5 |
| 16 95 02 | Sweatband Pk=2 | 52 80 25 | Lens Cover Inner 9100XX/XXi Pk=5 |
| 16 95 05 | Sweatband Pk=5 | 53 10 00 | Holder Battery 9100 Pk=2 |
| 16 95 50 | Sweatband Pk=50 | 53 20 16 | SideWindows Cover Plate Pk=2 |
| 17 10 20 | Magnifying Lens 1.0X | 53 30 00 | Head Harness |
| 17 10 21 | Magnifying Lens 1.5X | 53 35 00 | Air Duct Assembly |
| 17 10 22 | Magnifying Lens 2.0X | 53 40 00 | Face Seal |
| 17 10 23 | Magnifying Lens 2.5X | 53 50 00 | Air Deflector |
| 17 10 24 | Magnifying Lens 3.0X | 53 60 00 | Head Harness Pivot Mechanism 9100 |
| 19 71 44 | Flip-Up Mechanism Pk=2 | 53 61 00 | Head Harness Front Part 9100 |
| 42 20 00 | Battery Lithium Pk=2 | 53 62 00 | Head Harness Back Part 9100 |
| 50 00 26 | Speedglas Welding Lens 9100XXi | 54 05 00 | Front Cover Kit |
| 52 30 00 | Visor Plate Pk=5 | 54 28 00 | Helmet Welding 9100 FX Air Exc Lens |
| 52 30 01 | Visor Plate Anti-Fog Pk=5 | 79 01 01 | Carry Bag |
| 52 60 00 | Lens Cover Outer Standard Pk=10 | 83 40 19 | Breathing Tube Cover 9100 FX Air |
| 52 70 00 | Lens Cover Outer Hard Coated Pk=10 | | |



Speedglas™

Spare parts & consumables

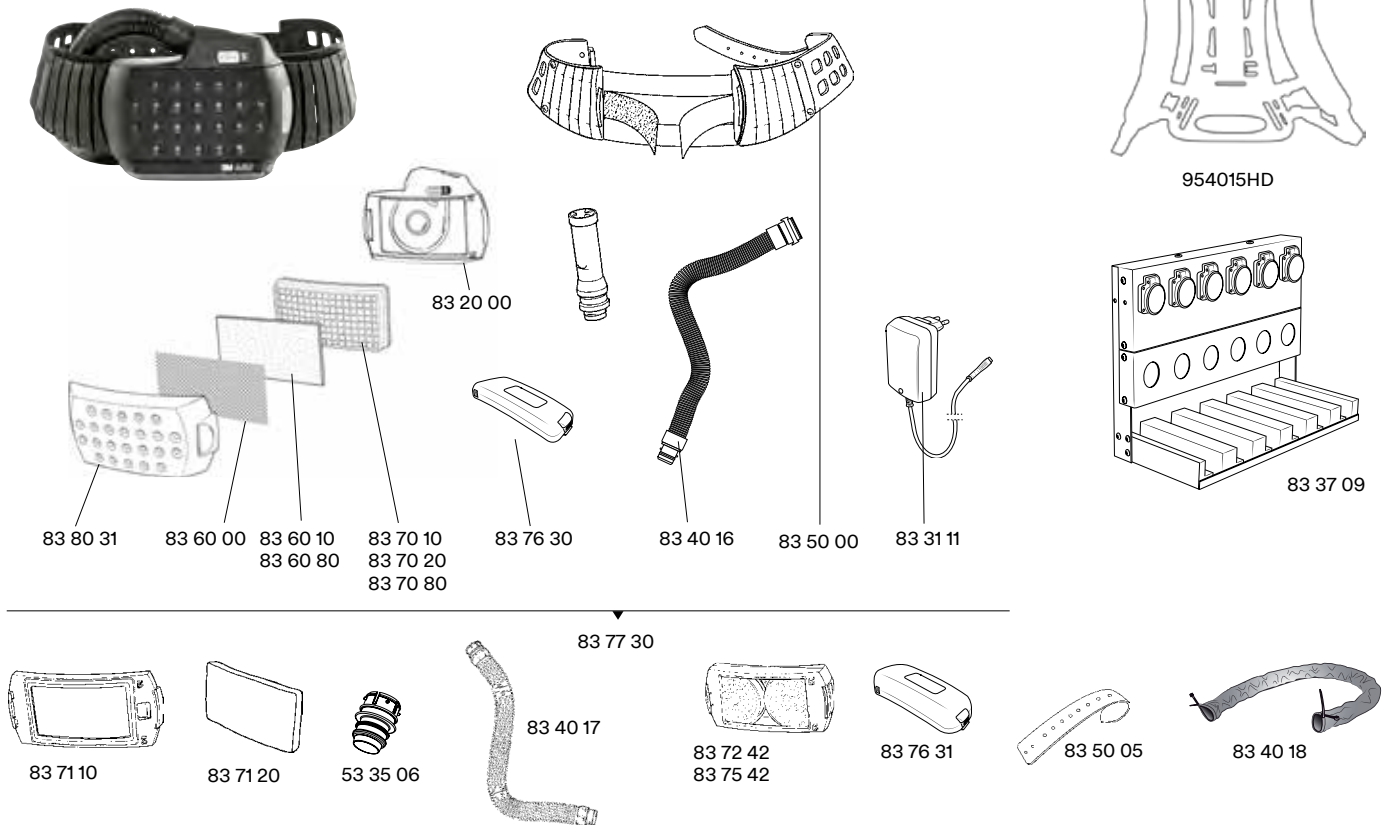


| Part No. | Description | Part No. | Description |
|----------|---|----------|------------------------------------|
| 16 90 05 | Head Cover | 52 60 00 | Lens Cover Outer Standard Pk=10 |
| 16 90 10 | Throat Protection | 52 70 00 | Lens Cover Outer Hard Coated Pk=10 |
| 16 91 00 | Head Cape Tecaweld | 52 70 70 | Lens Cover Outer High Heat Pk=10 |
| 16 95 02 | Sweatband Pk=2 | 52 77 77 | Mask Cleaning Spray 400ml |
| 16 95 05 | Sweatband Pk=5 | 52 80 05 | Lens Cover Inner 9100V Pk=5 |
| 16 95 50 | Sweatband Pk=50 | 52 80 15 | Lens Cover Inner 9100X Pk=5 |
| 17 10 20 | Magnifying Lens 1.0X | 52 80 25 | Lens Cover Inner 9100XX/XXi Pk=5 |
| 17 10 21 | Magnifying Lens 1.5X | 53 10 00 | Holder Battery 9100 Pk=2 |
| 17 10 22 | Magnifying Lens 2.0X | 53 20 15 | SideWindows Cover Plate Pk=2 |
| 17 10 23 | Magnifying Lens 2.5X | 53 21 00 | Front Cover |
| 17 10 24 | Magnifying Lens 3.0X | 53 30 00 | Head Harness 9100 |
| 42 20 00 | Battery Lithium Pk=2 | 53 37 00 | Air Duct Back Part |
| 50 00 26 | Speedglas Welding Lens 9100XXi | 53 41 00 | Face Seal |
| 50 28 00 | Helmet Welding 9100 Air Exc Lens | 53 60 00 | Head Harness Pivot Mechanism 9100 |
| 50 77 00 | Speedglas 9100 Air with Adflo, Exc Welding Lens & Bag | 53 61 00 | Head Harness Front Part 9100 |
| 50 90 26 | Speedglas 9100XXi Air Upgrade Kit, Exc Adflo | 53 62 00 | Head Harness Back Part 9100 |
| | | 79 01 01 | Carry Bag |



Speedglas™

Spare parts & consumables



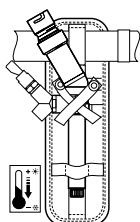
| Part No. | Description | Part No. | Description |
|-----------|--------------------------------------|-----------|---|
| 53 35 06 | Adaptor QRS Breathing Tube to 9000 | 83 71 10 | Filter Odour |
| 83 20 00 | PAPP Motor with Housing | 83 71 20 | Filter Odour Replacement Pad |
| 83 31 11* | Charger Battery Li-ion | 83 72 42 | Filter Nuis Level Organic Vapour/Acid Gas |
| 83 37 09 | Battery Multi-Station | 83 75 42 | Filter Gas A1 Adflo |
| 83 40 16 | Tube Breathing Self Adjusting QRS | 83 76 30* | Battery Standard Li-ion Adflo |
| 83 40 17 | Tube Breathing Heavy Duty Rubber | 83 76 30C | Upgrade Kit Standard Li-ion Battery & Charger |
| 83 40 18 | Tube Breathing Cover Flame Resistant | 83 76 31* | Battery Heavy Duty Li-ion Adflo |
| 83 50 00 | Belt Adflo | 83 76 31C | Upgrade Kit Heavy Duty Li-ion Battery & Charger |
| 83 50 05 | Belt Extension Adflo | 83 77 30 | Respirator Standard Li-ion Adflo |
| 83 60 00 | Spark Arrestor Adflo | 83 77 31 | Respirator Heavy Duty Li-ion Adflo |
| 83 60 10 | Pre-Filter Adflo Pk=5 | 83 80 31 | Filter Cover Li-ion Adflo |
| 83 60 80 | Pre-Filter Adflo Pk=80 | 954015HD | Backpack Adflo Heavy Duty |
| 83 70 10 | Filter Particle PSL Adflo | | |
| 83 70 20 | Filter Particle PSL Adflo Pk=20 | | |
| 83 70 80 | Filter Particle PSL Adflo Pk=80 | | |

* Lithium-ion (grey) batteries (83 76 30, 83 76 31) are only compatible with the Lithium-ion battery charger (83 31 11).

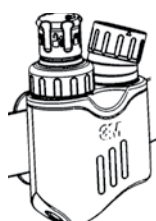


Speedglas™

Spare parts & consumables



AWS4590



85 20 17

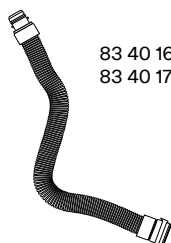
89 51 10



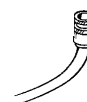
83 40 18



83 40 16
83 40 17



53 35 06



BAHOSE05M
BAHOSE10M
BAHOSE15M
BAHOSE20M
BAHOSE30M
BAHOSE40M

| Part No. | Description | Part No. | Description |
|----------|--------------------------------------|-----------|---|
| 53 35 06 | Adaptor QRS Breathing Tube to 9000 | BAHOSE05M | Hose Breathing Air 5M with CEJN Fittings |
| 83 40 16 | Tube Breathing Self Adjusting QRS | BAHOSE10M | Hose Breathing Air 10M with CEJN Fittings |
| 83 40 17 | Tube Breathing Heavy Duty Rubber | BAHOSE15M | Hose Breathing Air 15M with CEJN Fittings |
| 83 40 18 | Tube Breathing Cover Flame Resistant | BAHOSE20M | Hose Breathing Air 20M with CEJN Fittings |
| 85 20 17 | Regulator V-500E with Belt | BAHOSE30M | Hose Breathing Air 30M with CEJN Fittings |
| 89 51 10 | Carbon Filter and Two O-Rings SAR | BAHOSE40M | Hose Breathing Air 40M with CEJN Fittings |
| AWS4590 | Vortex Cooler Inc Muffler With Belt | | |



Supplied Breathing Air Process & Components



Air compressor



Breathing Air Hose



Breathing Air System



Breathing Air Hose



3M Speedglas welding helmet with supplied air regulator



All 3 person systems come with one coupling - part no. C103441152
 For 2 people order another coupling and for 3 people order another 2 couplings
 All 5 person systems come with two couplings - part no. C103441152
 For 3 people order another coupling, 4 people order another 2 couplings & 5 people order another 3 couplings

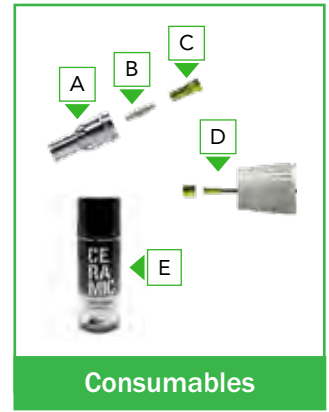
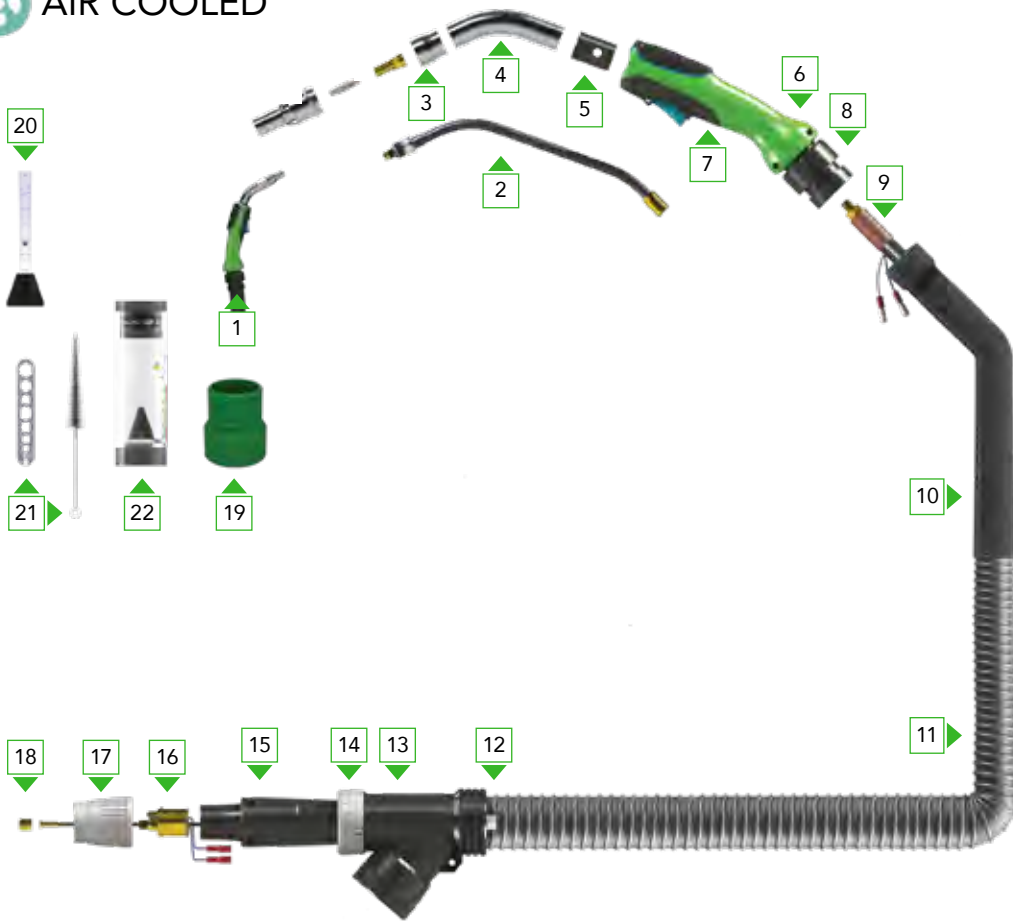


BAHOSE05M
 BAHOSE10M
 BAHOSE15M
 BAHOSE20M
 BAHOSE30M
 BAHOSE40M

| Part No. | Description | Part No. | Description |
|------------------------------------|---|--------------------------|--|
| ALPHA BREATHING AIR SYSTEMS | | HOSES | |
| WBA12WMA | BA System 1 Person 2 Stage Wall Mount Alpha | BAHOSE05M | Hose Breathing Air 5M with CEJN Fittings |
| WBA12PA | BA System 1 Person 2 Stage Portable Alpha | BAHOSE10M | Hose Breathing Air 10M with CEJN Fittings |
| WBA32WMA | BA System 3 Person 2 Stage Wall Mount Alpha | BAHOSE15M | Hose Breathing Air 15M with CEJN Fittings |
| WBA32PA | BA System 3 Person 2 Stage Portable Alpha | BAHOSE20M | Hose Breathing Air 20M with CEJN Fittings |
| WBA34WMA | BA System 3 Person 4 Stage Wall Mount Alpha | BAHOSE30M | Hose Breathing Air 30M with CEJN Fittings |
| WBA34PA | BA System 3 Person 4 Stage Portable Alpha | BAHOSE40M | Hose Breathing Air 40M with CEJN Fittings |
| WBA52WMA | BA System 5 Person 2 Stage Wall Mount Alpha | C103441152 | Coupling Male Thread R 1/4 BAS |
| WBA52PA | BA System 5 Person 2 Stage Portable Alpha | PRE-2018 ELEMENTS | |
| WBA54WMA | BA System 5 Person 4 Stage Wall Mount Alpha | WBA3AC | BA Element Activated Carbon (Upper) 1&3 Person |
| WBA54PA | BA System 5 Person 4 Stage Portable Alpha | WBA3XA | BA Element 0.01 Micron (Lower) 1&3 Person |
| ELEMENTS | | WBA3X1 | BA Element 1 Micron Pre Filter 1&3 Person |
| WBASK3A | BA Element Water Spinner Filter Alpha | WBA5AC | BA Element Activated Carbon (Upper) 5 Person |
| WBAX1 | BA Element 1 Micron Pre Filter Alpha | WBA5XA | BA Element 0.01 Micron (Lower) 5 Person |
| WBADXA | BA Element 0.01 Micron (Lower) Alpha | WBA5X1 | BA Element 1 Micron Pre Filter 5 Person |
| WBADAC | BA Element Activated Carbon (Upper) Alpha | | |

Translas 250 Amp On-Gun Extraction System (TR250S/TR250D)

 AIR COOLED



| Spare Parts - GUN | | | | | |
|-------------------|-----------------|--|------|-------------|--|
| Item | Part Number | Description | Item | Part Number | Description |
| 1 | TR8X01000401000 | 8XE MINI extractor Eur 250 amp 4 metre 45° | 10 | TR260019 | Leather-sheathing with velcro 2mtr |
| | TR8X01000501000 | 8XE MINI extractor Eur 250 amp 5 metre 45° | 11 | TR340304 | Fume extraction hose 30-38mm 4mtr |
| 2 | TR39301045 | Swan neck 45° | | TR340305 | Fume extraction hose 30-38mm 5mtr |
| | TR3950005 | PEEK ring to fix nozzle holder (not shown) | 12 | TR398031 | Hose connection |
| 3 | TR3950000 | Nozzle holder | 13 | TR398100 | Housing (Y-shape) for fume extraction hose |
| 4 | TR3950045 | Metal neck 45° | 14 | TR398015 | Connection ring |
| 5 | TR3950500 | Adapter to fit MINI neck | 15 | TR398010 | Housing set for central connector |
| 6 | TR391000 | Handle green/black complete with trigger | 16 | TR305298E | Central connector |
| 7 | TR391200 | Trigger | 17 | TR8M9420 | Adaptor nut |
| | TR391245 | Spring for trigger (not shown) | 18 | TR305315 | Liner positioner nut |
| | TR391250 | Micro switch complete (not shown) | 19 | TR398110 | Hose adapter |
| 8 | TR381900 | Cable support set with ball-and-socket joint | 20 | TR406050 | Gasflow metre |
| 9 | TR259264X8 | Cable assembly 4mtr | 21 | TR371208 | Tool set (brush and multitool) |
| | TR259265X8 | Cable assembly 5mtr | 22 | TR371350 | Airflow metre MINI extractor |

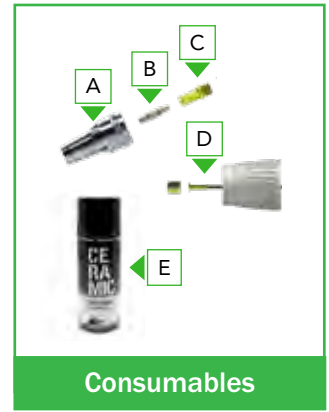
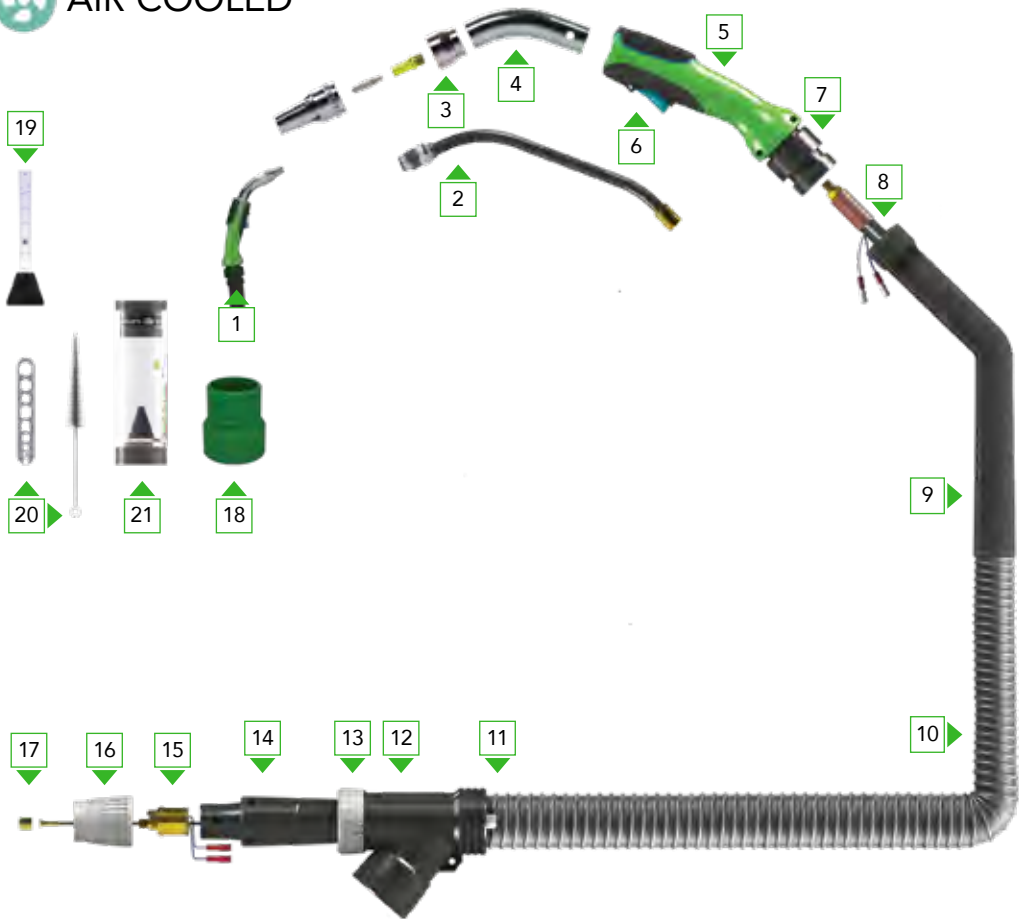
| Consumables - GUN | | | | | | | |
|-------------------|-------------|---|-----------------|------|-------------|---|---------------------|
| Item | Part Number | Description | Pack Qty | Item | Part Number | Description | Pack Qty |
| A | TR3937000 | Nozzle conical 12mm | 5 | D | TR301555 | Plastic coated liner blue 5 metre - for 0.8 to 1.0 wire | 1 |
| | TR3937001 | Nozzle conical 14mm tapered | 5 | | TR302545 | Plastic coated liner red 4 metre - for 0.8 to 1.2 wire | 1 |
| B | TR3990091 | Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire | 25 | | TR302555 | Plastic coated liner red 5 metre - for 0.8 to 1.2 wire | 1 |
| | TR3990101 | Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire | 25 | | TR303645 | Plastic coated liner yellow 4 metre - for 1.2 to 1.6 wire | 1 |
| | TR3990121 | Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire | 25 | | TR303655 | Plastic coated liner yellow 5 metre - for 1.2 to 1.6 wire | 1 |
| | C | TR39327110 | Tip adapter 250 | 10 | E | TR320300 | Ceramic spray 400ml |
| D | TR301545 | Plastic coated liner blue 4 metre - for 0.8 to 1.0 wire | 1 | | | | |



| Spare Parts - EXTRACTION UNIT | | |
|-------------------------------|-----------------|---|
| Item | Part Number | Description |
| A | TR3746150200004 | W150 ClearO2 mobile fume unit 3 phase |
| | TR3746200200004 | W200 ClearO2 mobile fume unit 2 welders 3 phase |
| B | TR374012 | Torch holder for automatic start/stop 5 metre 250 |
| C | TR374010 | Sensing cable auto start/stop 4 metre |
| D | TR3740105 | Extension 5 metre for sensor cable clamp |
| E | TR374020 | Main Filter |
| F | TR374025 | Filter Mat pk=5 |
| G | TR374099 | Ball valve to reduce the suction flow |
| H | TR3741061 | Compressed air regulator with moisture trap |
| I | TR37422505 | ClearO2 suction hose 5mt |
| J | TR398110 | Hose adapter |
| K | TR374130 | Coupler to extend the suction hose |

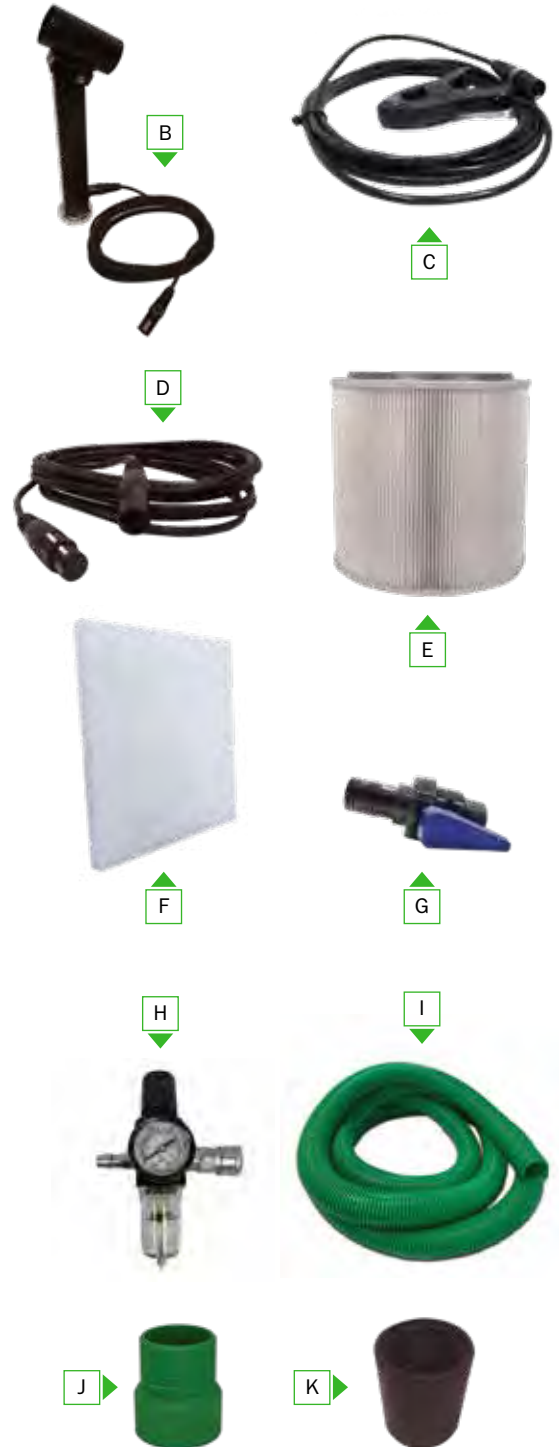
Translas 400 Amp On-Gun Extraction System (TR400S/TR400D)

 AIR COOLED



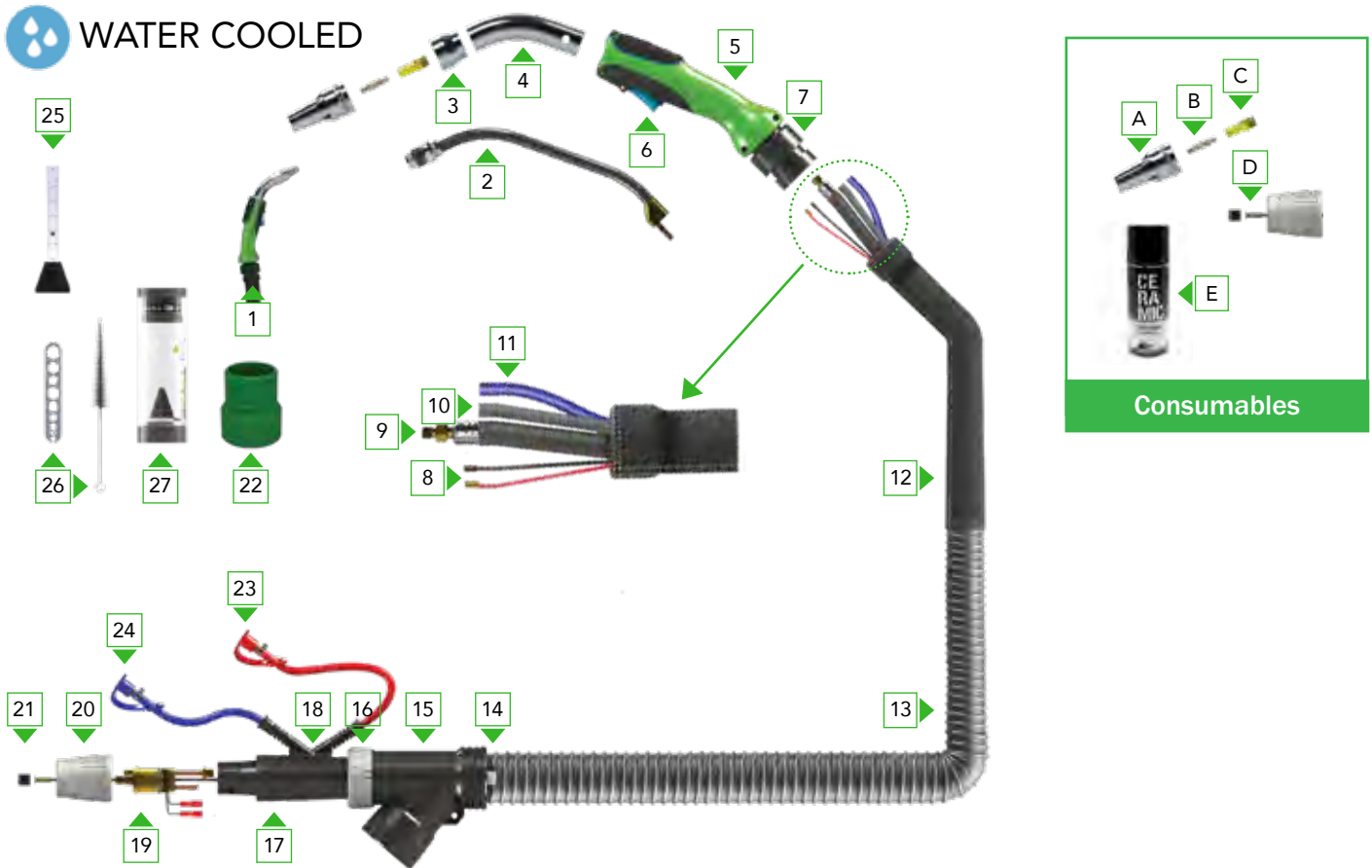
| Spare Parts - GUN | | | | | |
|-------------------|-----------------|--|------|-------------|--|
| Item | Part Number | Description | Item | Part Number | Description |
| 1 | TR8X04028401000 | 8XE extractor Eur 400 amp 4 metre 45° | 10 | TR3402042 | Fume extraction hose 36-44mm 4mtr |
| | TR8X04028501000 | 8XE extractor Eur 400 amp 5 metre 45° | | TR3402052 | Fume extraction hose 36-44mm 5mtr |
| 2 | TR39302145 | Swan neck 45° | 11 | TR398030 | Hose connection |
| | TR3950205 | PEEK ring to fix nozzle holder (not shown) | 12 | TR398100 | Housing (Y-shape) for fume extraction hose |
| 3 | TR3950200 | Nozzle holder | 13 | TR398015 | Connection ring |
| 4 | TR3950245 | Metal neck 45° | 14 | TR398010 | Housing set for central connector |
| 5 | TR391000 | Handle green/black complete with trigger | 15 | TR3052988 | Central connector |
| 6 | TR391200 | Trigger | 16 | TR8M9420 | Adaptor nut |
| | TR391245 | Spring for trigger (not shown) | 17 | TR305315 | Liner positioner nut |
| | TR391250 | Micro switch complete (not shown) | 18 | TR398110 | Hose adapter |
| 7 | TR381920 | Cable support set with ball-and-socket joint | 19 | TR406050 | Gasflow metre |
| 8 | TR259464X8 | Cable assembly 4mtr | 20 | TR371208 | Tool set (brush and multitool) |
| | TR259465X8 | Cable assembly 5mtr | 21 | TR371300 | Airflow metre extractor |
| 9 | TR260018 | Leather-sheathing with velcro 2mtr | | | |

| Consumables - GUN | | | | | | | |
|-------------------|---|---|----------|--|--|--|----------|
| Item | Part Number | Description | Pack Qty | Item | Part Number | Description | Pack Qty |
| A | TR3937041 | Nozzle conical 14mm tapered | 5 | C | TR39327310 | Tip adapter 400 | 10 |
| | TR3937045 | Nozzle conical 17mm tapered | 5 | D | TR303794 | Plastic coated liner black 4 metre - for 0.9 to 1.2 wire | 1 |
| B | TR3990091 | Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire | 25 | | TR303795 | Plastic coated liner black 5 metre - for 0.9 to 1.2 wire | 1 |
| | TR3990101 | Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire | 25 | TR303764 | Plastic coated liner grey 4 metre - for 1.6 wire | 1 | |
| TR3990121 | Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire | 25 | TR303765 | Plastic coated liner grey 5 metre - for 1.6 wire | 1 | | |
| TR3990161 | Contact tip - CuCrZr tri metal nickel plated - for 1.6 wire | 25 | E | TR320300 | Ceramic spray 400ml | 1 | |



| Spare Parts - EXTRACTION UNIT | | |
|-------------------------------|-----------------|---|
| Item | Part Number | Description |
| A | TR3746150200004 | W150 ClearO2 mobile fume unit 3 phase |
| | TR3746200200004 | W200 ClearO2 mobile fume unit 2 welders 3 phase |
| B | TR374014 | Torch holder for automatic start/stop 5 metre 400 |
| C | TR374010 | Sensing cable auto start/stop 4 metre |
| D | TR3740105 | Extension 5 metre for sensor cable clamp |
| E | TR374020 | Main Filter |
| F | TR374025 | Filter Mat pk=5 |
| G | TR374099 | Ball valve to reduce the suction flow |
| H | TR3741061 | Compressed air regulator with moisture trap |
| I | TR37422505 | ClearO2 suction hose 5mt |
| J | TR398110 | Hose adapter |
| K | TR374130 | Coupler to extend the suction hose |

Translas 500 Amp On-Gun Extraction System (TR500S/TR500D)



| Spare Parts - GUN | | | | | |
|-------------------|-----------------|--|------|-------------|--|
| Item | Part Number | Description | Item | Part Number | Description |
| 1 | TR8X05060401000 | 8XE extractor Eur 500 amp 4 metre 45° | 12 | TR260018 | Leather-sheathing with velcro 2mtr |
| | TR8X05060501000 | 8XE extractor Eur 500 amp 5 metre 45° | 13 | TR3402042 | Fume extraction hose 36-44mm 4mtr |
| 2 | TR39303045 | Swan neck 45° | | TR3402052 | Fume extraction hose 36-44mm 5mtr |
| | TR3950205 | PEEK ring to fix nozzle holder (not shown) | 14 | TR398030 | Hose connection |
| 3 | TR3950200 | Nozzle holder | 15 | TR398100 | Housing (Y-shape) for fume extraction hose |
| 4 | TR3950245 | Metal neck 45° | 16 | TR398015 | Connection ring |
| 5 | TR391000 | Handle green/black complete with trigger | 17 | TR398010 | Housing set for central connector |
| 6 | TR391200 | Trigger | 18 | TR350881 | Water hose guide |
| | TR391245 | Spring for trigger (not shown) | 19 | TR305304E2 | Central connector |
| | TR391250 | Micro switch complete (not shown) | 20 | TR8M9420 | Adapter nut |
| 7 | TR381920 | Cable support set with ball-and-socket joint | 21 | TR305315 | Liner positioner nut |
| 8 | TR306505 | Switch cable 1x0.75mm² per mtr | 22 | TR398110 | Hose adapter |
| 9 | TR258514X8 | Power/water cable 4mtr | 23 | TR258701 | Waterstop red |
| | TR258515X8 | Power/water cable 5mtr | 24 | TR258702 | Waterstop blue |
| 10 | TR2585314XE | Outer liner 4mtr | 25 | TR406050 | Gasflow metre |
| | TR2585315XE | Outer liner 5mtr | 26 | TR371208 | Tool set (brush and multitool) |
| 11 | TR258535 | Water inlet hose 5x8mm blue per mtr | 27 | TR371300 | Airflow metre extractor |
| | TR258566 | Water outlet hose 5x8mm red per mtr | | | |

| Consumables - GUN | | | | | | | |
|-------------------|-------------|---|----------|------|-------------|---|----------|
| Item | Part Number | Description | Pack Qty | Item | Part Number | Description | Pack Qty |
| A | TR3937041 | Nozzle conical 14mm tapered | 5 | C | TR39327210 | Tip adapter 500 | 10 |
| | TR3937045 | Nozzle conical 17mm tapered | 5 | D | TR302545 | Plastic coated liner red 4 metre - for 0.8 to 1.2 wire | 1 |
| B | TR3990091 | Contact tip - CuCrZr tri metal nickel plated - for 0.9 wire | 25 | | TR302555 | Plastic coated liner red 5 metre - for 0.8 to 1.2 wire | 1 |
| | TR3990101 | Contact tip - CuCrZr tri metal nickel plated - for 1.0 wire | 25 | | TR303645 | Plastic coated liner yellow 4 metre - for 1.2 to 1.6 wire | 1 |
| | TR3990121 | Contact tip - CuCrZr tri metal nickel plated - for 1.2 wire | 25 | | TR303655 | Plastic coated liner yellow 5 metre - for 1.2 to 1.6 wire | 1 |
| | TR3990161 | Contact tip - CuCrZr tri metal nickel plated - for 1.6 wire | 25 | E | TR320300 | Ceramic spray 400ml | 1 |



| Spare Parts - EXTRACTION UNIT | | |
|-------------------------------|-----------------|---|
| Item | Part Number | Description |
| A | TR3746150200004 | W150 ClearO2 mobile fume unit 3 phase |
| | TR3746200200004 | W200 ClearO2 mobile fume unit 2 welders 3 phase |
| B | TR374014 | Torch holder for automatic start/stop 5 metre 500 |
| C | TR374010 | Sensing cable auto start/stop 4 metre |
| D | TR3740105 | Extension 5 metre for sensor cable clamp |
| E | TR374020 | Main Filter |
| F | TR374025 | Filter Mat pk=5 |
| G | TR374099 | Ball valve to reduce the suction flow |
| H | TR3741061 | Compressed air regulator with moisture trap |
| I | TR37422505 | ClearO2 suction hose 5mt |
| J | TR398110 | Hose adapter |
| K | TR374130 | Coupler to extend the suction hose |



Nederman



FPSP02/FPSP03



FPSN01



FPSN02



FPSP01



FPSS01



FPSB01

bomaksan®



BMINIPRER



BMINIPRE



BMINIMAIN



BMONPULNANO



BMONPULPOLY



BPRONANO



BPROPOLY

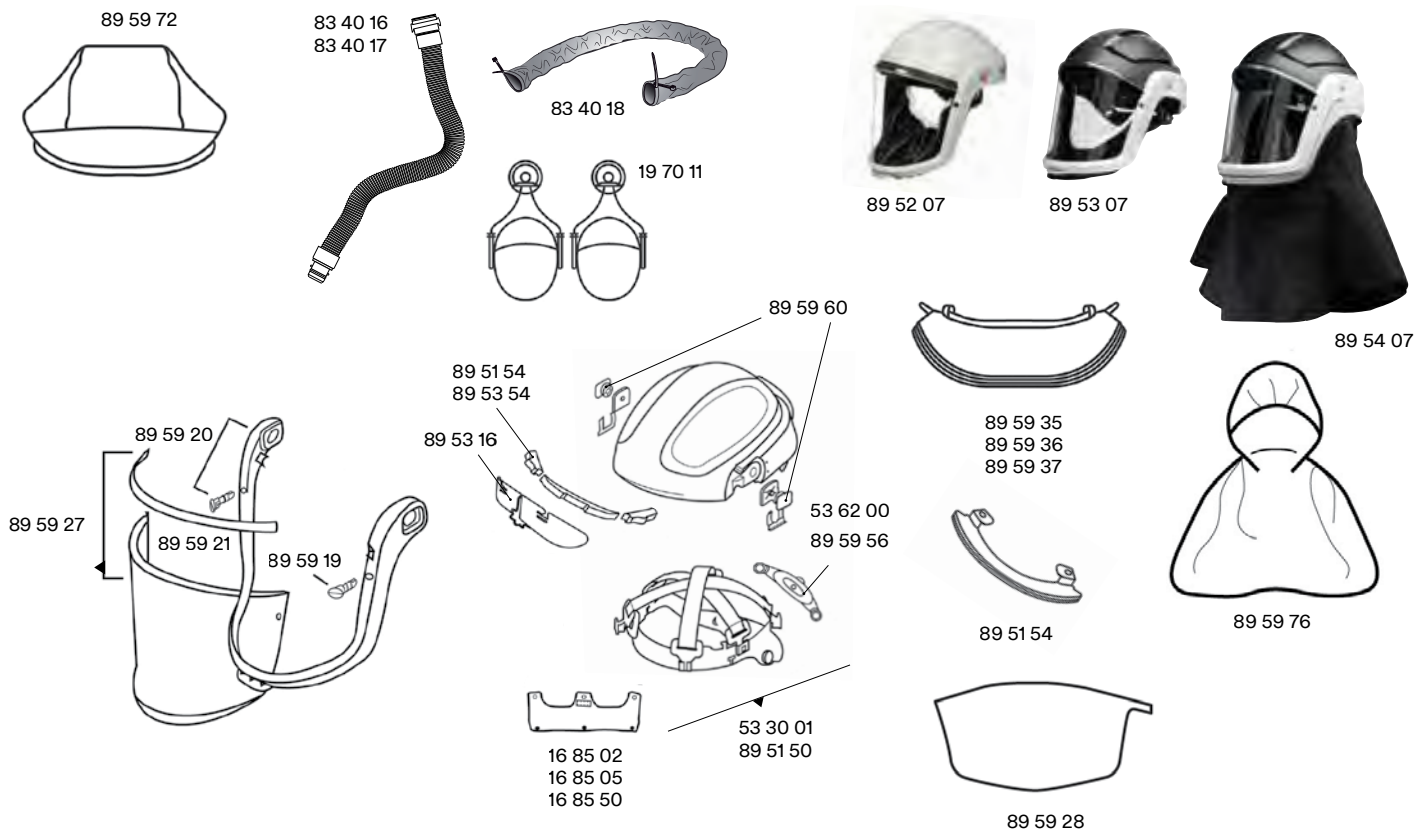


BBENCHNANO



BBENCHPOLY

| Part No. | Description | Part No. | Description |
|----------|---|-------------|---|
| FPSP02 | Replacement particle filter for Nederman FPS150 | BMINIPRER | Bomaksan MINI pre-filter mat 10Pcs/Set - G4 |
| FPSP03 | Replacement particle filter for Nederman FPS150/FPS180 | BMINIPRE | Bomaksan MINI pre-filter cassette - M5 |
| FPSN01 | Focused nozzle funnel for Nederman FPS150 | BMINIMAIN | Bomaksan MINI main filter - H13 |
| FPSN02 | Wide nozzle funnel for Nederman FPS150 | BMONPULNANO | Bomaksan MONO & PULSE Nanoblend filter |
| FPSP01 | Replacement particle filter for Nederman FPS900 & FPS1800 | BMONPULPOLY | Bomaksan MONO & PULSE Polymight PTFE filter |
| FPSS01 | Spark protector Nederman FPS900 & FPS1800 | BPRONANO | Bomaksan PRO Nanoblend filter |
| FPSB01 | Filter Bag Nederman FPS900 & FPS1800 Pk=10 | BPROPOLY | Bomaksan PRO Polymight PTFE filter |
| | | BBENCHNANO | Bomaksan BENCH Nanoblend filter Pk=2 |
| | | BBENCHPOLY | Bomaksan BENCH Polymight PTFE filter Pk=2 |



| Part No. | Description | Part No. | Description |
|----------|---|----------|------------------------------------|
| 16 85 02 | Sweatband Pk=2 | 89 54 41 | Gasket Jaw M-400 |
| 16 85 05 | Sweatband Pk=5 | 89 54 44 | Collar Inner M-400 |
| 16 85 50 | Sweatband Pk=50 | 89 54 47 | Shroud Outer High Durability M-400 |
| 19 70 11 | Earmuffs with Helmet Attachment | 89 54 48 | Shroud Outer FR M-400 |
| 53 30 01 | Head Harness M-300, M-400 | 89 59 19 | Visor Frame Buttons Pk=10 |
| 53 62 00 | Head Harness Back Part M-400 | 89 59 20 | Visor Frame |
| 83 40 16 | Tube Breathing Self Adjusting QRS | 89 59 21 | Visor Gasket Pk=5 |
| 83 40 17 | Tube Breathing Heavy Duty Rubber | 89 59 27 | Visor Coated Pk=5 |
| 83 40 18 | Tube Breathing Cover Flame Resistant | 89 59 28 | Peel-Off Visor Cover Pk=40 |
| 89 52 07 | M-207 Face Shield with FR Face Seal | 89 59 35 | Standard Face Seal Pk=5 |
| 89 51 50 | Head Suspension M-100/M-200 | 89 59 36 | Comfort Face Seal Pk=5 |
| 89 51 54 | Forehead Seal M-100/M-200 | 89 59 37 | Flame Resistant Face Seal Pk=5 |
| 89 53 07 | M-307 Face Shield with FR Face Seal | 89 59 56 | Ratchet Comfort Pad Pk=10 |
| 89 53 16 | Airflow Deflector M-300 | 89 59 57 | Comfort Pad Forehead Pk=20 |
| 89 53 54 | Forehead Seal M-300 | 89 59 60 | Pivot Kit |
| 89 54 07 | M-407 Hard Hat Face Shield with FR Shroud | 89 59 72 | Flame Resistant Headtop Cover |
| | | 89 59 76 | Head, Neck & Shoulder Cover |



About AWS

AWS was established in 1994 and has played a key role in the welding industry ever since.

As an advocate for welders' safety in Australia and New Zealand, AWS has published numerous Welding Safety White Papers, Welding Industry Reports, and Welding Fume Control Frameworks.

As a company that specialises in welding safety equipment, it is our goal to raise awareness on the important issues that welders face.

For more information on welding fume monitoring, welding PPE, or welding fume extraction options, please contact AWS.

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 youtube.com/awsspeedglas

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