3M™ Versaflo™ Integrated Suspension Headcovers and Hoods S-Series

Based on a computer modeling of a worldwide sampling of head sizes, new 3M™ Versaflo™ Headcovers and Hoods S-Series, through their sizing and adjustment options, will comfortably fit many users. The integrated suspension headcovers and hoods can be suitable for applications that require frequent replacement of the entire headtop assembly, such as pharmaceutical manufacturing, or in situations where there is less soiling of the outer fabric. For disposal, the suspension assembly and air inlet components can be quickly removed and separated for segregated waste streams, where facilities are available.

Typical Industries and Applications

+ Surface preparation, painting and coating
+ Pharmaceutical manufacturing
+ Chemical industry
+ Medical and healthcare
+ Food and beverage
+ Agriculture
+ Woodworking
+ Pulp and paper processing

All-Day Comfort

+ Slim design, that closely profiles the user's head for improved appearance.
+ Lightweight and loose-fitting.
+ Excellent airflow distribution for improved comfort, lower noise and reduced fogging.

Integrated Suspension

+ Ready to use straight out of the box.
+ Available in two adjustable sizes: S/M (50-58 cm) and M/L (54-64 cm).

Improved Visibility

+ Excellent field of view, particularly downwards, with reduced curvature for decreased reflections and glare

Added Protection

+ Comfortably worn with prescription eyewear, safety glasses, and some limited facial hair
+ Meets the highest respiratory performance requirements (TH3) for this type of product when used with 3M™ Air Delivery Unit
+ Eye and face protection to EN166 – liquid splash and low energy impact
+ Coverage of head, hair, neck and shoulders

3M™ Versaflo™ Hood S-533
Neck and shoulder coverage with soft, low-linting fabric that more readily drapes over user.
Fabric material: Polyurethane coated knitted polyamide.
Visor material: Coated polycarbonate for increased chemical and scratch resistance.

3M™ Versaflo™ Headcover S-133
General purpose, cost-effective fabric.
Fabric material: 2-layer polypropylene spunbond/ laminated film.
Visor material: PETG.

3M™ Versaflo™ Headcover S-333G
Soft, quiet, more durable low-linting fabric.
Fabric material: Polyurethane coated knitted polyamide.
Visor material: Coated polycarbonate for increased chemical and scratch resistance.

3M™ Versaflo™ Hood S-433
Includes neck and shoulder coverage.
Fabric material: 2-layer polypropylene spunbond/ laminated film.
Visor material: PETG.

3M™ Air Delivery Unit	Standards with S-Series Headcovers and Hoods*	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 2:F:3	500
3M™ Jupiter™	EN12941 TH3, EN166 2:F:3	500
3M™ Versaflo™ V-Series	EN14594 3A, EN166 2:F:3	200

* The S-Series Headcovers and Hoods meet the lower strength (A) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.
** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Modular Respirator Systems

3M™ Versaflo™ Premium Hoods with Reusable Suspensions S-Series

reddot design award
honourable mention 2011

Based on a computer modeling of a worldwide sampling of head sizes, new The 3M™ Versaflo™ S-Series Headcovers and Hoods, through their sizing and adjustment options, will comfortably fit many users. Premium reusable suspension hoods can be a highly cost-effective choice for some high disposal rate environments: just the soiled hood fabric is replaced, while the suspension and air ducting can be reused. It also has an externally-adjustable airflow control that allows wearers to modify the airflow distribution to suit personal comfort needs. With a simple turn of the external controller, wearers can shift the location of air flowing over the back of their head to over their temples, face and visor.

Typical Industries and Applications

+ Surface preparation, painting and coating
+ Pharmaceutical manufacturing
+ Chemical industry
+ Medical and healthcare
+ Food and beverage
+ Agriculture
+ Woodworking
+ Pulp and paper processing

All-Day Comfort

+ Slim design, that closely profiles the user's head for improved appearance
+ Lightweight and loose-fitting
+ Excellent airflow distribution for improved comfort, lower noise and reduced fogging

Reusable Suspension

+ Cost effective choice for some high disposal rate environments
+ User control of airflow location and suspension adjustments for best comfort and custom fit
+ One Size: 50-64 cm

Improved Visibility

+ Excellent field of view, particularly downwards, with reduced curvature for decreased reflections and glare

Added Protection

+ Comfortably worn with prescription eyewear, safety glasses, and some limited facial hair
+ Meets the highest respiratory performance requirements (TH3) for this type of product when used with 3M™ Air Delivery Units
+ Eye and face protection to EN166 – liquid splash and low energy impact

3M™ Versaflo™ Hood S-655
General purpose, with knitted inner collar that is shorter and thinner than previous models.
Fabric material: 2-layer polypropylene spunbond/ laminated film.
Visor material: PETG.

3M™ Versaflo™ Hood S-657
Features a double-shroud design for its respiratory seal. The inner shroud can be tucked into a shirt or protective coverall, which allows excess air to be channeled over the body, providing additional comfort.
Fabric material: 2-layer polypropylene spunbond/ laminated film.
Visor material: PETG.

3M™ Versaflo™ Painters Hood S-757
Fabric specifically intended to help capture paint overspray. Double shroud design.
Fabric material: 3-layer polypropylene spunbond/ laminated film/spunbond.
Visor material: Coated polycarbonate.

3M™ Versaflo™ Hood S-855E
Sealed seam hood for liquid chemical splash environments. Knitted inner collar design.
Fabric material: Spunbond polypropylene with multilayer barrier film.
Visor material: Coated polycarbonate.

3M™ Air Delivery Unit	Standards with S-Series Headcovers and Hoods*	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 2:F:3	500
3M™ Jupiter™	EN12941 TH3, EN166 2:F:3	500
3M™ Versaflo™ V-Series	EN14594 3A, EN166 2:F:3	200

* The S-Series Headcovers and Hoods meet the lower strength (A) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.
** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Modular Respirator Systems

3M™ Versaflo™ Faceshields M-100 Series

The 3M™ Versaflo™ Headtops M-100 Series feature lightweight, compact and well-balanced faceshields that can offer integrated protection from a range of respiratory, eye, face and hearing hazards.

reddot design award
honourable mention 2011

INTERNATIONAL DESIGN EXCELLENCE AWARDS '11
BRONZE

Typical Industries and Applications

+ Woodworking
+ Painting
+ Surface treatment
+ Agricultural applications
+ Grinding
+ Polishing

Highly Versatile Rigid Headtops

+ Provides protection from specific respiratory, head and eye hazards

Modern, Well Balanced Design

+ Lightweight with excellent balance
+ Fully-adjustable head suspension
+ A deflector allows users to direct the airflow inside the headtop for increased control and comfort

Visor Design

+ Visor design combines excellent peripheral and downward vision with good optical clarity
+ Lenses provide chemical and scratch resistance

Easy To Maintain

+ Optional hearing protection 3M™ Peltor™ Helmet-Mounted Earmuff Assembly
+ Many parts are common to all Versaflo M-Series Headtops, meaning reduced inventories and downtime
+ Spare parts and accessories are quick, easy and intuitive to replace

3M™ Versaflo™ Faceshield M-106
Features a general purpose faceseal for dusts, spraying and chemical processing.
Fabric material: Polyurethane coated polyamide.

3M™ Versaflo™ Faceshield M-107
Features a flame resistant faceseal for applications with hot particles.
Fabric material: Flame resistant polyester.

Accessories
M-925 Uncoated Visor - providing additional molten metal splash protection
M-927 Coated Visor - providing chemical and scratch resistance
M-928 Peel-Off Visor Covers (pack of 10)
M-935 Standard faceseal (white) (pack of 5)
M-936 Comfort faceseal (pack of 5)
M-937 Flame resistant faceseal (pack of 5)
M-958 Chin-strap
3M™ Peltor™ Hearing Protector Helmet Attachments: H31P3AF 300, H510P3AF-405-GU, H520P3AF-410-GQ and H540P3AF-413-SV
M-972 Flame Resistant Headtop Cover
M-976 Head, Neck and Shoulder Cover

3M™ Versaflo™ Peel-Off Visor Covers M-928
Available accessory to protect the visor.

3M™ Air Delivery Unit	3M™ Versaflo™ M-100 Series Faceshields	
	Standards	NPF**
3M™ Versaflo™ TR-300	EN12941 TH2, EN166 1:BT:3 (EN 166 1:BT:3:9 - using M-925 alternative)	50
3M™ Jupiter™	EN12941 TH2, EN166 1:BT:3 (EN 166 1:BT:3:9 - using M-925 alternative)	50
3M™ Versaflo™ V-Series	EN14594 2B*, EN166 1:BT:3 (EN 166 1:BT:3:9 - using M-925 alternative)	50

* The M-Series Faceshields and Helmets meet the higher strength (B) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements

** Nominal Protection Factor – a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Modular Respirator Systems

3M™ Versaflo™ Helmets M-300 Series

The 3M™ Versaflo™ Helmets M-300 Series feature lightweight, compact and well-balanced helmets that can offer integrated protection from a range of respiratory, head, eye, face and hearing hazards. M-300 Series helmets meet the highest respirator performance requirements (TH3) for this type of product when used with specific 3M™ Air Delivery Units.

Typical Industries and Applications

+ Smelting and foundry applications
+ Grinding
+ Chemical processing and plant maintenance
+ Agricultural applications
+ Construction and renovation
+ Demolition

reddot design award
honourable mention 2011

INTERNATIONAL DESIGN EXCELLENCE AWARDS '11
BRONZE

Highly Versatile Rigid Headtops

+ Head protection approved according to EN397
+ Integrated protection from multiple hazards (e.g. respiratory, impact, splash hazards)

Modern, Well Balanced Design

+ Lightweight with excellent balance
+ Fully-adjustable head suspension
+ A deflector allows users to direct the airflow inside the headtop for increased control and comfort.

Visor Design

+ Visor design combines excellent peripheral and downward vision with good optical clarity
+ Lenses provide chemical and scratch resistance

Easy To Maintain

+ Optional hearing protection 3M™ Peltor™ Helmet-Mounted Earmuff Assembly
+ Many parts are common to all Versaflo M-Series Headtops, meaning reduced inventories and downtime
+ Spare parts and accessories are quick, easy and intuitive to replace

3M™ Versaflo™ Helmet M-306
Features a general purpose faceseal for construction, chemical applications and heavy industry.
Fabric material: Polyurethane coated polyamide.

3M™ Versaflo™ Helmet M-307
Features a flame resistant faceseal for applications with hot particles.
Fabric material: Flame resistant polyester.

Accessories
M-925 Visor - providing additional molten metal splash protection
M-927 Coated Visor - providing chemical and scratch resistance
M-928 Peel-Off Visor Covers (pack of 10)
M-935 Standard faceseal (white) (pack of 5)
M-936 Comfort faceseal (pack of 5)
M-937 Flame resistant faceseal (pack of 5)
M-958 Chin-strap
3M™ Peltor™ Hearing Protector Helmet Attachments: H31P3AF 300, H510P3AF-405-GU, H520P3AF-410-GQ and H540P3AF-413-SV
M-972 Flame Resistant Headtop Cover
M-976 Head, Neck and Shoulder Cover

3M™ Air Delivery Unit	3M™ Versaflo™ M-300 Series Helmets	
	Standards	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 1:BT:3, EN397 (EN 166 1:BT:3:9 - using M-925 alternative)	500
3M™ Jupiter™	EN12941 TH2, EN166 1:BT:3, EN397 (EN 166 1:BT:3:9 - using M-925 alternative)	50
3M™ Versaflo™ V-Series	EN14594 3B*, EN166 1:BT:3, EN397 (EN 166 1:BT:3:9 - using M-925 alternative)	200

* The M-Series Faceshields and Helmets meet the higher strength (B) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.
** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Modular Respirator Systems

3M™ Versaflo™ Helmets with Shrouds M-400 Series

The 3M™ Versaflo™ M-Series Helmets can offer integrated protection from a range of respiratory, head, eye, face and hearing hazards with additional neck and shoulder coverage. M-400 Series helmets meet the highest respirator performance requirements (TH3) for this type of product when used with specific 3M™ Air Delivery Units.

Typical Industries and Applications

+ Smelting & foundry applications
+ Grinding
+ Construction & renovation
+ Demolition

reddot design award
honourable mention 2011

INTERNATIONAL DESIGN EXCELLENCE AWARDS '11
BRONZE

Highly Versatile Rigid Headtops

+ Head protection approved according to EN397
+ Integrated protection from multiple hazards (e.g. respiratory, impact, splash hazards)

Modern, Well Balanced Design

+ Lightweight with excellent balance
+ Fully-adjustable head suspension
+ A deflector allows users to direct the airflow inside the headtop for increased control and comfort.

Visor Design

+ Visor design combines excellent peripheral and downward vision with good optical clarity
+ Lenses provide chemical and scratch resistance

Easy To Maintain

+ Many parts are common to all Versaflo M-Series Headtops, meaning reduced inventories and downtime
+ Spare parts and accessories are quick, easy and intuitive to replace

3M™ Versaflo™ Helmet M-406
Features a highly durable shroud for construction applications and heavy industry.
Fabric material: Nylon.

3M™ Versaflo™ Helmet M-407
Features a flame resistant shroud for applications with hot particles.
Fabric material: Polyaramid.

Accessories
M-925 Visor - providing additional molten metal splash protection
M-927 Coated Visor - providing chemical and scratch resistance
M-928 Peel-Off Visor Covers (pack of 10)
M-958 Chin-strap
M-447 Flame resistant shroud
M-448 High durability shroud
M-972 Flame resistant headtop cover

3M™ Air Delivery Unit	3M™ Versaflo™ M-400 Series Helmets	
	Standards	NPF**
3M™ Versaflo™ TR-300	EN12941 TH3, EN166 1:BT:3, EN397 (EN 166 1:BT:3:9 - using M-925 alternative)	500
3M™ Jupiter™	EN12941 TH3, EN166 1:BT:3, EN397 (EN 166 1:BT:3:9 - using M-925 alternative)	500
3M™ Versaflo™ V-Series	EN14594 3B*, EN166 1:BT:3, EN397 (EN 166 1:BT:3:9 - using M-925 alternative)	200

* The M-Series Faceshields and Helmets meet the higher strength (B) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements
** Nominal Protection Factor – a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

3M™ Welding Shields HT-600 Series

The HT-600 Series Welding Shields not only offer respiratory protection but also face, eye and impact protection in metal working and fabrication environments. The various flip-up shield and filter mechanisms allow you to inspect your work whilst the large coverage area gives protection from radiation and sparks. The range also offers a choice of filter shades including auto-darkening and fixed shades. Thanks to the comfortable head harness and knitted faceseal, the welder can wear the welding shield for long periods of time. The airflow through the visor ensures reduced sweat build up and can make the welder more comfortable and efficient.

Typical Industries and Applications

+ Metal working

For a more comprehensive guide to welding protection, please refer to the welding section.

Features and Benefits:

+ Superb coverage
+ Respiratory, eye, face and impact protection
+ Liftable welding lenses to allow clear view, while retaining respiratory protection
+ New airduct system giving improved airflow to the face area
+ New comfortable easy-adjust harness with double comfort band
+ Harness/airduct in one robust assembly
+ Easy-to-fit comfortable, elasticated, knitted faceseal

3M™ Air Delivery Unit	3M™ Welding Shields HT-600 Series	NPF**
3M™ Versaflo™ TR-300	EN12941 TH2, EN175	50
3M™ Jupiter™	EN12941 TH2, EN175	50
3M™ Versaflo™ V-Series	EN14594 2A*, EN175	50

* The 600 Series headtops meet the lower strength (A) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.

** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices. The protection factor is assigned by local authorities in each European country and can therefore be different for different countries.

3M™ Welding Shield HT-639
A well balanced shield for welders.
Headtop weight: 696g.

+ Supplied with a 90x110mm filter holder
+ Conventional or auto-darkening filters can be fitted

3M™ Welding Shield HT-622
A super-light shield for welders. Wide range of filter shade combinations available.
Headtop weight: 595g.

+ Supplied with shade 1.7 UV filter, also available in shades 3 & 5
+ Supplied with shade 8 welding filter, also available in shades 5 & 10
+ Total shade range available from 6.7 to 15

3M™ Welding Visor HT-629
The solution for those welders needing a welding shield with a clear, wide view visor beneath. The 90 x 110mm filter holder hinges down for easy access.
Headtop weight: 794g.

+ Supplied without a welding filter, but with cover lenses
+ Conventional or auto-darkening filters can be fitted

3M™ Modular Respirator Systems

3M™ Helmets HT-700 Series

The 3M™ Helmets HT-700 Series offer not only respiratory protection, but also EN166 approved eye and face protection, as well as EN397 head protection. For especially hot work areas, the 3M™ Helmet HT-707 features a heat resistant shell and it is also available with an optional heat resistant cover. For welding applications the 3M™ Helmets HT-748 and HT-749 can be equipped with either a fixed shade filter or an auto-darkening welding filter (90x110 mm for HT-748 and 3.25" x 4.25" for HT-749).

Typical Industries and Applications

+ Smelting
+ Foundries (grinding, polishing)
+ Welding

+ The polycarbonate visor offers eye and face protection to EN166
+ Helmet shells provide head protection to EN397
+ Quick Release Swivel (QRS) Coupling for ease of use
+ Head and face seals
+ Constant airflow over wearer's face
+ Light, well balanced

3M™ Helmet HT-707
White, heat resistant shell.
Weight: 715g.

3M™ Helmet HT-707
With additional radiant heat kit.
Weight: 850g.

3M™ Helmet HT-748 / HT-749
Welding shield with safety helmet, black.
Weight: 900g.

As an alternative to the fixed shade filter, the HT-748/HT-749 can be equipped with the optional Auto Darkening Filter in the standard format 90 x 110 mm.

3M™ Air Delivery Unit	3M™ HT-707 Safety Helmet	3M™ HT-748/749 Helmets	NPF**
3M™ Versaflo™ TR-300	EN12941 TH2, EN166 2:B:3:9, EN397	EN12941 TH2, EN166 2:B:3:9, BS1542 Class 4, EN397	50
3M™ Jupiter™	EN12941 TH2, EN166 2:B:3:9, EN397	EN12941 TH2, EN166 2:B:3:9, BS1542 Class 4, EN397	50
3M™ Versaflo™ V-Series	EN14594 2A*, EN166 2:B:3:9, EN397	EN14594 2A*, EN166 2:B:3:9, BS1542, Class 4, EN397	50

* The 700 Series headtops meet the lower strength (A) requirements of EN14594. They are approved for use with a range of compressed air supply tubes that meet both the lower and higher strength (A and B) requirements.

** Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices. The protection factor is assigned by local authorities in each European country and can therefore be different for different countries.