

3M™ Speedglas™ Quick Release Welding Helmets (QR)
New solution for welders' head, eye and face protection

NEW

 **Speedglas™**



Quick Release

Flexibility & Comfort

The Power to Protect Your WorldSM



Continuous head protection for welders

Flexible and convenient hard hat attachment: No more wearing a welding helmet when you don't need it.

Designed to fit many of the industry's hard hats, the 3M™ Speedglas™ Quick Release (QR) Rail swiftly clasps onto your hard hat via a releasable ratcheting mechanism. With the rail installed, you can easily detach the welding helmet while your hard hat remains in place as you perform your non-welding tasks.

Quickly Connect/Disconnect

Even with a gloved hand, you can easily attach the 3M™ Speedglas™ Welding Helmet 9100 QR or 100 QR. When your welding work is finished, you can detach the welding helmet as quickly as you take off a baseball cap.

You do not need to remove the hard hat from your head as you attach and detach the welding helmet from the rail – Head protection is truly continuous.

If you prefer to keep the welding helmet attached, it is quickly parked in the raised position. This “parked” position creates a low center of gravity, reducing the forces on your neck while letting you move around more easily thanks to the low profile.



For video and more information visit:
www.3m.com/quickrelease



3M™ Speedglas™
Welding Helmet 100 QR



3M™ Speedglas™
Welding Helmet 9100 QR



Fully Adjustable For Comfort & Performance

You can easily find your favorite viewing position by adjusting the height of the welding helmet.

To help prevent the welding helmet swinging away from your face, you can precisely set the friction with the rubber wheel on top of the welding helmet.

Attaches to Many Hard Hats

3M offers a complete welding helmet system that includes the 3M™ Hard Hat H-701R. The H-701R model is a fully-featured hard hat capable of accepting 3M integrated eyewear and earmuffs in addition to the 3M™ Speedglas™ Welding Helmet Series QR.

The 3M™ Speedglas™ Quick Release (QR) Rail allows you to attach a Speedglas auto-darkening welding helmet to many hard hats. See the Hard Hat Compatibility list (below).



Hard Hat Compatibility

Manufacturer	Hard Hat Model	Hard Hat Part No.
3M	H-701R	70-0716-2145-5
MSA	V-gard™ w/Fas-trac Suspension	475358 thru 475365 & 488146
Bullard™	Classic Series w/6pt. Ratchet Suspension	C30R
Jackson Safety™	SC6 w/ Ratchet Suspension 391	3001987 thru 3001996

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High-Performing Auto-Darkening Filters

The 3M™ Speedglas™ Welding Helmet 9100 QR is compatible with our top-of-the-line 3M™ Speedglas™ Welding Filter Series 9100. The 9100 series welding filters feature outstanding optical performance, variable dark shades 5, 8, 9-13 and arc detection for low amp TIG.

As an alternative, the easy-to-use 3M™ Speedglas™ Welding Helmet 100 QR can be an ideal auto-darkening welding helmet for the occasional welder. It features five adjustable dark shades 8-12 and can be used for most arc welding processes.



3M™ Speedglas™ Quick Release Rail – Complete Systems

Part No	Description
06-0100-10QR	3M™ Speedglas™ Welding Helmet 9100 QR with 3M™ Speedglas™ Welding Filter 9100V and 3M™ Hard Hat H-701R
06-0100-20QR	3M™ Speedglas™ Welding Helmet 9100 QR with 3M™ Speedglas™ Welding Filter 9100X and 3M™ Hard Hat H-701R
06-0100-30QR	3M™ Speedglas™ Welding Helmet 9100 QR with 3M™ Speedglas™ Welding Filter 9100XX and 3M™ Hard Hat H-701R
07-0012-31BL-QR	3M™ Speedglas™ Welding Helmet 100 QR with 3M™ Speedglas™ Welding Filter 100V and 3M™ Hard Hat H-701R



3M™ Speedglas™ Quick Release Rail and Welding Helmet

Part No	Description
06-0300-54QR	3M™ Speedglas™ Welding Helmet 9100 QR with rail (without welding filter and hard hat)
07-0114-00BL-QR	3M™ Speedglas™ Welding Helmet 100 QR with rail (without welding filter and hard hat)



Technical Specifications	3M™ Speedglas™ Welding Helmet 9100 QR			3M™ Speedglas™ Welding Helmet 100 QR
Options	9100XX Filter	9100X Filter	9100V Filter	100V Filter*
Viewing area (approx.)	2.8 x 4.2 in (72 x 107 mm)	2.1 x 4.2 in (54 x 107 mm)	1.8 x 3.7 in (45 x 93 mm)	1.7 x 3.7 in (44 x 93 mm)
Battery life time (approx.)	2 000 hrs	2500 hrs	2800 hrs	1500 hrs
Solar cell	No	Yes	Yes	No
Classification (per EN 379)**	1 / 1 / 1 / 2			1 / 2 / 2 / 2
Dark state	Shade 5, 8, 9-13			Shade 8-12
Delay (dark-light) (approx.)	40 – 1300 ms			40 – 250 ms
Approvals Welding helmet 3M™ Hard Hat H-701R	ANSI Z87.1-2010 ANSI/ISEA Z89.1-2009 Type 1, Class C, G, and E / CSA Z94.1 Type 1, Class C, G, and E			ANSI Z87.1-2010 ANSI/ISEA Z89.1-2009 Type 1, Class C, G, and E / CSA Z94.1 Type 1, Class C, G, and E

* The Speedglas welding filters 100S-10 and 100S-11 (single shade 10 or 11) are available as separate options.

** Per European Standard EN 379, auto-darkening welding filters have a four-part classification: optical class / diffusion of light / variation on luminous transmittance/angle dependence. Classifications range from 1 to 3, with 1 being the best.

⚠ WARNING

These products meet the requirements of certain industrial eyewear standards and certain industrial head protection standards. They do not provide complete head, eye, and face protection from severe impact and penetration and are not a substitute for good safety practices and engineering controls. **Misuse may result in serious injury or death.** For proper use, see supervisor refer to the product User Instructions or contact 3M Technical Service.

⚠ WARNING

This product is designed to help protect the wearer's eyes and face from harmful radiation including visible light, ultra-violet radiation (UV), infra-red radiation (IR), sparks and spatter resulting from welding processes. These products must be used only by qualified persons who are properly trained in their use and maintenance. **Misuse may result in permanent eye injury and vision loss.** Always wear ANSI Z87.1 compliant safety spectacles in addition to any welding helmet. For proper use, see supervisor, or User Instructions or call 3M PSD Technical Service in U.S.A at 1-800-243-4630 and in Canada at 1-800-267-4414.

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