



SENTINEL™

MISSION READY. FOR THE ACCOMPLISHED.

SENTINEL A50: THE HELMET OF CHOICE FOR WELDING'S BEST.

The best welders deserve the best equipment. And when it comes to choosing a helmet, Sentinel is it – with ergonomic headgear, supreme comfort, intuitive controls, and crystal-clear visibility.

Streamlined shell design – Welding hoods have looked the same for years. But no longer. Sentinel's streamlined shell design is not too big and not too small, accounting for a range of different head sizes and shaking up the aesthetics at the same time. The flush exterior also minimizes extrusions, so nothing catches when working in a tight space.

Ergonomic HALO™ headgear – Sentinel's headgear was built from the ground up with a focus on ergonomics. The five-point-contact headgear is adjustable, so the weight of the helmet can be shifted around the head, which reduces pressure loads and increases comfort for long-term wear.

Spherical front cover lens – The sweeping design across the helmet allows more natural light to get in when welders are in grind mode, ultimately increasing visibility and clarity. Sentinel also comes with two lenses: A clear lens and a yellow lens, each of which is quickly and easily replaceable.

Hypervisible LCD control panel – Standard analog buttons get an upgrade on Sentinel, which features a full-color LCD touchscreen panel, similar to a smartphone's screen. This premium display will increase clarity for welders, and its intuitive controls and easy-to-use functions make clever technology simple.





High-performance Auto-Darkening Filter (ADF) –

Sentinel redefines visibility for the welder with its high optical class ADF, allowing for a brighter view and enhanced color definition. The light state grind mode provides superior convenience and can be accessed from an external button.

Sentinel’s ultra-clear true-color lens gives you a realistic view of your weld.



Respiratory options – Sentinel comes in two versions.

There’s the standard helmet (Sentinel A50) and the air version (Sentinel A50 Air), which has hoses and connections ready to fit ESAB’s range of powered air respirators.

HIGH OPTICAL CLASS ADF

Optical Class	1/1/1/2
Viewing Area	3.93 in. x 2.36 in. (100 mm x 60 mm)
Size of Cartridge	5.24 in. x 4.50 in. x 2.36 in. (133 mm x 114 mm x 9 mm)
Lens Shade	DIN 5-8/9-13
Light State	DIN 3.0
Shade Control	Internal
Sensors	4
On/Off	Automatic
Power Supply	Solar cell + two replaceable batteries (CR2450 lithium) Low battery alarm
Switch Time	0.04 ms at 131°F (55°C) 0.075 ms at room temperature
Sensitivity Control	Low-high; adjustable with infinite dial knob
Delay Time (dark to light)	0.1 s ~ 1.0 s
External Grind Mode Button	Yes
Low TIG Amps Rated	≥ 2 amps/DC; ≥ 2 amps/AC
Memory Setting	8 x preset memory function
Standards	DIN plus; CE; EN175; EN379; EN166; ANSI Z87.1; CSA Z94.3; AS/NZS1338.1

UNRIVALED SERVICE AND SUPPORT.

Sentinel, like every ESAB product, is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with maintenance and upgrading of machines.

For more information on Sentinel, visit esab.com/sentinel.

3-YEAR WARRANTY.

ESAB's industry-leading service and support means that if customers do need help, they'll be protected by the most comprehensive warranty in the business.



100% SATISFACTION GUARANTEE.

If there's anything – and we mean anything – you're not completely happy with in your first 100 days with your machine, ESAB will make it right, or your money back.



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