The Navitek® Airkos® is the most comprehensive welding helmet: offering autodarkening filters with large viewing areas, enabling the welder to have a 160° vision through side polycarbonate, providing an extralarge clear grinding visor beneath the welding Flip Front, while ensuring full respiratory protection.

The Navitek® Airkos® provides of the largest clear vision available on the market. This clear polycarbonate with excellent optical quality ensures a perfect and wide vision to the operator enabling him/her:
- To work between welding processes with the Flip Front up but the clear visor down, therefore keep active the respiratory protection from the Airkos®.
- To grind with full protection from the B-rated clear polycarbonate.

Combining a grinding visor to a welding flip required more attention for extended ergonomics: the combined visor/Flip ensures full protection to the operator, while keeping a limited volume and weight.
In addition, the longitudinal headgear completes the perfect balance of the Navitek® shell.

Navitek® Airkos® PAPR Welding systems are available in 3 versions:

- Navitek® PAPR Welding System with M11 Lens CR 58M11
- Navitek® PAPR Welding System with S4 Lens CR 58S4
- Navitek® PAPR Welding System with S9 Lens CR 58S9

The resistant headgear associated with the Navitek® Airkos® offers 4 settings: height, width, angle and longitudinal adjustments for welders operating with corrective glasses.

Navitek® Welding systems are also available in 3 versions:

- Navitek® non PAPR Welding System with M11 Lens GT 58M11
- Navitek® non PAPR Welding System with S4 Lens GT 58S4
- Navitek® non PAPR Welding System with S9 Lens GT 58S9

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Navitek®, the most comprehensive Welding helmet

Navitek® S9 with Airkos PAPR System Shown

Navitek® Lift Front Welding Shown
The Navitek® Airkos® with the S9 lens offers the best of ADF technology, with a large viewing area. This top of the range ADF offers the possibility to adjust the welding shade from DIN 5 to DIN 13, the level of sensitivity of the 4 arc sensors and the delay to return to the clear shade.
On top of that, these 3 settings are displayed on the digital panel. All the settings are done through soft-touch knobs, easily accessible even with welding gloves on.

The Navitek® Airkos® with the S4 lens is an alternative offer in ADF technology. The S4 also offers a smaller viewing area, 4 arc sensors and the possibility to adjust sensitivity, delay, and dark shade, but only from shade DIN 9 to DIN 13.

The last combination available is equipped with a mineral glass instead of an ADF. With a passive shade DIN 11, the Navitek® M11 provides a large 110x90mm viewing area and an entry-level version of the Navitek® Airkos®.
In all possible combinations, the Navitek® Flip Front is equipped with resistant side polycarbonate in shade DIN 5. These shade DIN 5 side polycarbonates create a 160° vision of the environment and bring a dual benefit to the operator:
1. Total control of close environment and improved safety
2. Less claustrophobia and less fatigue

<table>
<thead>
<tr>
<th></th>
<th>M11</th>
<th>S4</th>
<th>S9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark shade</td>
<td>DIN 11</td>
<td>DIN 9–13</td>
<td>DIN 5–13</td>
</tr>
<tr>
<td>Clear Shade</td>
<td>Din 4</td>
<td>Din 4</td>
<td>Din 4</td>
</tr>
<tr>
<td>Switching speed</td>
<td>0.2ms</td>
<td>0.1ms</td>
<td></td>
</tr>
<tr>
<td>Arc Sensor</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Viewing area</td>
<td>110 x 90 mm</td>
<td>93 x 43 mm</td>
<td>100 x 50 mm</td>
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<tr>
<td>Optical classes</td>
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<td>1/1/1/2</td>
<td>1/1/1/2</td>
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<tr>
<td>Technology</td>
<td>Twisted Nematic</td>
<td>Twisted Nematic</td>
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<tr>
<td>Power</td>
<td>Solar</td>
<td>Solar + Batteries</td>
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</tr>
<tr>
<td>Digital display</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Controls</td>
<td>Stepless knobs</td>
<td>Tactile</td>
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</tr>
<tr>
<td>Sensitivity</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Delay</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Grinding</td>
<td>No</td>
<td>Yes - EN 175 B</td>
<td>Yes - EN 175 B</td>
</tr>
<tr>
<td>Applications</td>
<td>Stick, MIG/MAG, TIG</td>
<td>Stick, MIG/MAG, TIG</td>
<td>Stick, MIG/MAG, TIG, Pulse arc, Micro-Tig, Grinding, Torch-cutting</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>EN166B, EN169, EN175B</td>
<td>EN166B, EN175B, EN379</td>
<td>EN166B, EN175B, EN379</td>
</tr>
</tbody>
</table>

All Navitek Welding helmets are available with Auto-Darkening Lens S4 or S9 or M11 Passive Lens.
Airkos®, the powerful Powered Air Purifying Respiratory (PAPR)

The Navitek® is completed with the Airkos® for a full respiratory protection.

Airkos® is a Powered Air Purifying Respiratory (PAPR) unit enabling the operator to weld and grind while breathing purified air through a particulate filter. The operator is informed by 2 separate sound alarms for clogged-filter status and low-battery. Operated on a replaceable and rechargeable Lithium-ion battery, Airkos® is a completely autonomous unit.

The Airkos® provides a filtration of Solid and Liquid Particles (PSL). The bolted face seal to the Kapio® and Navitek® shells ensure a restricted TH2 inward leakage of contaminants inside the hood. The filter used on the Airkos® is classified as «Reusable» (PRSL) and should not be changed at every shift. The filter alarm will inform the operator when to replace it. The Airkos® is equipped with a pre-filter, preventing larger particles to prematurely clog the PSL filter. The proper maintenance and replacement of the pre-filter greatly extends the life of the main filter.

The Airkos® offers 2 airflows, based on the welding application, the environment, and the operator's habits. 180 l/m is the initial minimum speed. With a simple pressure on the single control knob, the Airkos® increases the airflow to 220 l/m.

The Airkos® is locked on a large and padded belt for excellent comfort and balance. An optional harness is available, completing the existing belt and switching the weight towards the shoulders.

All Navitek® Airkos® combinations are delivered with a storage bag.

Filtration | PRSL
Leakage | TH2
Airflows | 180l/m-220l/m
Clogged filter alarm | Yes-Sound/visual
Low battery alarm | Yes-Sound/visual
Pre-filter | Yes
Autonomy | 10h
Battery | Lithium-ion
Hose protection | Yes
Weight | 1180g
Warranty | 1 year
Standards | EN 12941
Grinding & Cutting Helmets

Navitek® Clear Visor, the largest Grinding visor

Navitek® Clear Visor

The Navitek® Clear Visor is based on the standard large clear visor for perfect vision during grinding. The Navitek shell and all its polycarbonates are certified for grinding with the specific standards EN166B and EN 175B.

Navitek® Grinding Clear Visor are available in 2 versions:

<table>
<thead>
<tr>
<th>Visor Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navitek® Grinding Clear Visor without Black Airkos® PAPR System</td>
<td>GT 7700</td>
</tr>
<tr>
<td>Navitek® Grinding Clear Visor with Black Airkos® PAPR System</td>
<td>CRBK 7700</td>
</tr>
</tbody>
</table>

Navitek® Visor DIN5, the best Grinding and Cutting combination

Navitek® Visor DIN5

The cutting version of the Airkos Black combines the clear visor fit for grinding applications, to a larger shade DIN5 visor fit for any torch-cutting and plasma-cutting applications, as well as brasing. The resulting shade DIN5 vision is the one of the largest on the market.

Navitek® Visor DIN 5 Cutting & Grinding are available in 2 versions:

<table>
<thead>
<tr>
<th>Visor Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navitek® Visor DIN 5 Cutting &amp; Grinding without Black Airkos® PAPR System</td>
<td>GT 7705</td>
</tr>
<tr>
<td>Navitek® Visor DIN 5 Cutting &amp; Grinding with Black Airkos® PAPR System</td>
<td>CRBK 7705</td>
</tr>
</tbody>
</table>
Airkos® Black : efficient respiratory protection for occasional Cutting and Grinding helmet

Airkos® Black is a simplified Powered Air Purifying Respiratory (PAPR) unit enabling the operator to weld, grind or cut while breathing purified air through a particulate filter, with a 4-hour operating time. The Airkos® Black provides the same filtration of Solid and Liquid Particles (PSL) as the Airkos®.

This basic unit is equipped with an electronic regulation offering a steady airflow. With a simple pressure on the single control knob, the Airkos® Black offers a regulated airflow of 180 l/m in the headtop. The unit will electronically adjust the airflow depending on the filter status in order to always ensure 180 l/m.

Airkos® Black is also equipped with sound and visual alarms for clogged-filter and low-battery.

<table>
<thead>
<tr>
<th>Filtration</th>
<th>PRSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leakage</td>
<td>TH2</td>
</tr>
<tr>
<td>Airflows</td>
<td>180 l/m</td>
</tr>
<tr>
<td>Clogged filter alarm</td>
<td>Yes - Sound/visual</td>
</tr>
<tr>
<td>Low battery alarm</td>
<td>Yes - Sound/visual</td>
</tr>
<tr>
<td>Battery</td>
<td>Lithium - ion</td>
</tr>
<tr>
<td>Autonomy</td>
<td>4h</td>
</tr>
<tr>
<td>Weight (unit + battery + belt + filter)</td>
<td>1090g</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
<tr>
<td>Standards</td>
<td>EN 12941</td>
</tr>
</tbody>
</table>
Welding, Grinding & Cutting Helmets

Spare parts and exploded views

Airkos® Airkose Black

1 CR 7050 CR 7060
2 CR 7060 CR 7070
3 CR 7004 CR 7004
4 CR 7003 CR 7003
5 CR 7020 CR 7024
6 CR 7084 CR 7084
7 CR 7086 CR 7086
8 CR 7083 CR 7083
9 CR 7010 CR 7010
10 CR 7012 CR 7012
11 AX 1101 AX 1101
12 CR 7025 CR 7025
13 CR 7034 CR 7034
14 AX 1140 AX 1140
15 CR 7022 CR 7022
16 CR 7023 CR 7023
17 CR 7002 CR 7002

Navitek® Clear Visor

Navitek® Visor DIN 5

Navitek®

All technical data and photos listed here are not legally binding and subject to changes without modifications