SAFETY HELMETS

Professional Quality

2011
Nicolaus August Otto
Award for Innovation

www.enha.com
The technical development of recent safety helmets did not show much progress if compared to the helmets of the sixties. The market is being dominated by single wall helmets with a helmet shell that is being reinforced in the center area on top of the shell (5 - 6 mm). This shell is assembled to an adjustable harness mostly equipped with a sweatband. The reinforcement on top of the helmet is designed to protect the user against sharp edged tools falling on the helmet shell. Stiffening the helmet shell on the other hand results in little to no flexibility of the shell when it comes to an impact. The impact energy is being forwarded to the harness and from there to the users’ head. Compared to the progress modern vehicles displayed over the last 10 years, safety helmets are on the technical level of a car from the sixties. No safety belts, no airbags and no crumple zone to absorb as much impact energy as possible for better protection of the passengers. We at ENHA designed a new helmet and took the efforts of modern car technology into account. The RANGER helmet comes with a Crash Zone that has been integrated on top of the helmet shell exactly where an impact most likely will occur. The Crash Zone is double walled and between both walls we placed a part that is being compressed and deformed if it comes to the worst, absorbing impact energy and reducing the amount of impact energy being forwarded from the helmet shell to the harness. The more the Crash Box is being deformed the better because the amount of impact energy being passed through to the harness will be measurably reduced. The RANGER helmets is providing a high protection level by having its Crash Box intentionally destroyed for better protection of the user.
Features

- Crash Box
- Ventilation holes optional
- Slots for attaching hearing protectors and visors
- Slot for helmet light
- 6 Point suspension with self releasing chinstrap mounts
- Sweatband, anti-allergic, washable
- Standard one hand ratchet system
- Manufactured from hi tec blend for 6 years usage time
- 6 colors, Crash Box red, hi viz orange, black, navyblue

Awards

It did not happen accidentally that our technical director received an (or several) award(s) for all helmets he has been designing during his career. IF (Industrieforum Hannover) 1997, Saarländischer Preis für Design 1997, Designpreis NRW 1997, RED DOT Designpreis, Förderpreis für Arbeit, Sicherheit und Gesundheit der SteinbruchsBG 2001 (ROCKMAN Helmets), reddot design award winner 2009 (E-MAN Helmserie), Nicolaus August Otto Preis für Innovation 2011 (RANGER Helm Serie).

Made in Germany

We develop, design and manufacture all of our helmets in Germany. We are ISO 9001 certified and are performing helmet lab tests according to EN 397 every production day under different temperatures starting from +50°C and ending at -30°C.

We always purchase virgin brand granulate from leading companies, we never buy regranulate that previously has been run through an injection molding machine. For helmets shells we exclusively use UV stabilized granulate which will reduce aging, especially if exposed to the sun for a longer period of its lifetime, like extended outdoor use.

Value For Your Money

The RANGER helmet offers more protection than conventional designed helmets, but comes with a higher price, unfortunately. Compared with the price tag on modern safety shoes it is still a reasonable investment, that might pay off one day but is paying off every day by its super modern design and unconventional looks.

Especially with all garments and shoes looking so modern and cool, most of the users will agree that it is time for a change and the fresh looks of the RANGER helmet. To allow the user to individualize his RANGER we offer a range of useful accessories that will set the proud owner of a RANGER helmet apart from the pack. Please also look at page 4 of this brochure.
The RANGER comes with a front slot for mounting a headlight without the annoying elastic headband. Headlight can be pivoted for exact adjustment onto the workplace as needed.

The RANGER helmet can be equipped with helmet mounted hearing protectors and visors. The picture (left) shows the forestry combo. The visor can also be delivered from clear Polycarbonate with different coatings like chemical resistance coating, anti scratch, antifog.

The HiViz reflective sticker kit contains 22 individually designed stickers that exactly match the helmet surface design. The user can use all of them or only a few to enhance safety if working in or around dark spots. Stickers withstand weather conditions as they are originally being used for ambulance and fire trucks.

Another attractive option is the IntegraSpec integrated retractable visor, which can be fully retracted into the helmet shell if not needed. Never again the user has to search his tool box or pockets to find the safety glasses, just pull the IntegraSpec down and the eyes are protected against flying particles or/and the sun, if the tinted version has been chosen. IntegraSpec only adds 32 grams of weight to the helmet weight including all necessary mounting parts.

The RANGER comes with a front slot for mounting a head light without the annoying elastic headband. Head light can be pivoted for exact adjustment onto the workplace as needed.
Why Buying ROCKMAN Helmets?

- Lattice frame design for better impact energy absorption
- Excellent absorption rates compared to the most recent products of worldwide recognized competitors.
  
  From -30°C Celsius to +50°C less than half of the max 5000 N tolerated by EN 397. We are performing this test procedure every single day of production at -30°C, +20°C and +50°C in our lab.

- 30 mm slots for hearing and/or visor mounting
- Lightweight starting from 315 g
- 4 or 6 Point suspension with self-releasing chin strap mounts (standard)
- Textile or plastic harness to choose from
- Self-releasing chin strap mounts (standard)
- Wide range of sweatbands (fleece, leather terry cloth, plastic, cooling, all antiallergic and washable
- One hand operational ratchet (optional) or pinlock (standard)
- Exclusively manufactured and assembled in Germany
- Virgin plastic granulate only from leading brand manufacturers (Bayer, BASF etc) no remanufactured granulate
- Ventilation holes (if equipped) on top of the helmet allowing the warm air to ascend drawing cooler air into the helmet shell. It has been taken into account
- We offer a large range of models for almost all work places
- The headband design allows the user to bend far over without loosing the helmet
- All ROCKMAN helmets offer additional neck protection through helmet shell
- Worldwide certified: ANSI USA, Russia GHOST, EN Europe, Chile and many more
Helmets for Construction and Industry

<table>
<thead>
<tr>
<th>Material</th>
<th>Polyethylene or ABS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helmet Shell</td>
<td>Neck Protection</td>
</tr>
<tr>
<td>Harness</td>
<td>6-Point Textile Harness</td>
</tr>
<tr>
<td>Comfort</td>
<td>Sweatband: Fleece</td>
</tr>
<tr>
<td>Slots</td>
<td>30 mm</td>
</tr>
<tr>
<td>Form</td>
<td>Rain Gutter</td>
</tr>
<tr>
<td>Accessory</td>
<td>Chin Strap, self-releasing</td>
</tr>
<tr>
<td>Weight</td>
<td>310 g</td>
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<td>6-Point Plastic Harness</td>
</tr>
<tr>
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<td>Sweatband: Plastic</td>
</tr>
<tr>
<td>Slots</td>
<td>30 mm</td>
</tr>
<tr>
<td>Form</td>
<td>Rain Gutter</td>
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<tr>
<td>Accessory</td>
<td>Chin Strap, self-releasing</td>
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<tr>
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<tr>
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<table>
<thead>
<tr>
<th>C3/C3A</th>
<th>EN - Norm tested and certified according EN 397</th>
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<tbody>
<tr>
<td>Special</td>
<td>-30°C (standard requirement - 10°C)</td>
</tr>
<tr>
<td>US- Norm</td>
<td>tested and certified according to ANSI Z89-1 2</td>
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<tr>
<td>Russ. Norm</td>
<td>tested and certified according to GHOST</td>
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<tr>
<td>Colors</td>
<td></td>
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Helmets for Electricians

*Also brochure for electricians’ head protective equipment

<table>
<thead>
<tr>
<th>E-Series</th>
<th>EN - Norm</th>
<th>3000 V tested and certified according EN 397 / EN 50365</th>
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<tr>
<td>Special</td>
<td>-30°C (Standard -10°C), Molten Metal (TE), 150°C (TE)</td>
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<td>US- Norm</td>
<td>20.000 V tested and certified accord. ANSI Z89 - 2003</td>
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<tr>
<td>Test</td>
<td>4000 A 0.5 sec E-Series, 7000 A for 0.5 sec E-Series</td>
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<tr>
<td>Test</td>
<td>10.000 Amps for 1 sec TE Series</td>
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<tr>
<td>Colors</td>
<td>E4/E4A</td>
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</tr>
<tr>
<td></td>
<td>TE 6 after exposure to 10.000 Amps for 1 sec, helmet surface is burnt, inner shell and harness like new Polyethylene or ABS helmets will melt at this temperature</td>
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<tr>
<th>Material</th>
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<tbody>
<tr>
<td>Helmet Shell</td>
<td>Neck Protection, no ventilation holes</td>
</tr>
<tr>
<td>Harness</td>
<td>4-Point Textile Suspension</td>
</tr>
<tr>
<td>Comfort</td>
<td>Sweathand</td>
</tr>
<tr>
<td>Slots</td>
<td>30 mm</td>
</tr>
<tr>
<td>Form</td>
<td>Rain Gutter</td>
</tr>
<tr>
<td>Accessory</td>
<td>Chin Strap Mounts self-releasing</td>
</tr>
<tr>
<td>Weight</td>
<td>315 g</td>
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<td>Rain Gutter</td>
</tr>
<tr>
<td>Accessory</td>
<td>Chin Strap Mounts self-releasing</td>
</tr>
<tr>
<td>Weight</td>
<td>328 g</td>
</tr>
</tbody>
</table>
### Helmets for Forestry

#### 2500 Series
- **Material**: Polyethylene or ABS
- **Helmet Shell**: Neck Protection
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 2600 Series
- **Material**: Polyethylene or ABS
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension with optional Ratchet
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 2700 Series
- **Material**: Polyamid Type Hearing Protector + Wire-/Nylon Mesh Visor
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 2800 Series
- **Material**: Polyamid Type Hearing Protector + Wire-/Nylon Mesh Visor
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 3000 Series
- **Material**: Polyethylene or ABS
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 3100 Series
- **Material**: Polyethylene or ABS
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 3200 Series
- **Material**: Polyethylene or ABS
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### 3300 Series
- **Material**: Polyethylene or ABS
- **Helmet Shell**: Neck Protection + additional Ventilation Holes
- **Harness**: 6-Point Textile Suspension
- **Comfort**: Perforated Forestry Sweatband for better Ventilation
- **Slots**: 30 mm
- **Form**: Rain Gutter
- **Accessory Chin Strap Mounts**: Self-releasing
- **Weight**: 326 g

#### Special Conditions
- **-30°C (Standard: -10°C)

#### ANSI Tests
- **Tested and Certified according to US Norm ANSI Z89**
T6 Helmets are available with a variety of mesh wire visors with or without blue filter glass especially designed for molten steel.

- Standard Colors: White, yellow, red

- T6 with wire mesh visor 4210W
- T6 with goldcoated visor 4209 G and visor carrier 4300M
- T6 with wire mesh visor 4212W, short and 20x60 mm window for filter glass 4211O
- T6 with wire mesh visor 4213W, short and 2 x 50 mm filter glass 4213O

House of Innovation

Helmets for Hot Metal Industry

- EN - Norm tested and certified EN 397
- Heat Resistance: Molten Metal, Heat resistant up to +150°C
- Cold resistance: -30°C and up to -50°C (special Helmet, Standard: -10°C)
- Harness: 4 or 6 Point Textile Suspension
- Optional: One Hand Ratchet
- Standard Colors: White, yellow, red

EN - Norm tested and certified EN 397
Heat Resistance: Molten Metal, Heat resistant up to +150°C
Cold resistance: -30°C and up to -50°C (special Helmet, Standard: -10°C)
Harness: 4 or 6 Point Textile Suspension
Optional: One Hand Ratchet
Standard Colors: White, yellow, red
Why must a helmet be colored like it was 50 years ago? We can tune your helmet with a paint that makes it look like the centerconsole of your Porsche Turbo. Even your own designs can be realized. Actually we can offer:

- Raindrop (Helmet base color still visible) Pic. 1
- Marble (Base color still visible)
- Carbon (Pic. 3)
- Steel, silver
- Diamond Plate
- Wood
- Camouflage (Pic. 2)
- Flower
- Your design upon request!
Helmet Printing + Reflector Kits

PRINTING is possible from one up to four colors. Front, sides and back of the helmet can be printed up to the print size of 40 x 70 mm.

REFLECTOR KITS
For all of our helmets we have custom kits available which exactly follow the shape of the helmet for perfect fit providing extended safety for users working in the night.

GLOWING HELMETS
For working in a mine or places of similar darkness we offer helmets, that will glow even without exposure to any light. The user of one of our glowing helmets will be noticed even in the pitch dark. Helmet will still be glowing after 1 hour in complete darkness with the intensity of 29.4 mcd / m².
SPECIAL HELMETS

MINERS HELMET
M6 with lamp mount and cable guide on back, also available as anti-static helmet.

THEATRE-/STAGE HELMET
C6V in black for making it invisible for the eyes of the audience, optional delivered with a chin strap.

SHORT PEAK HELMET
C6/F6V with cutoff sun visor for shipyards, tree doctors and underground work on canals, tunnels etc. The short peak helmets provides better view, chin strap and integrated visor optional available.

JUNIOR FIREFIGHTER HELMET
C6 with edge protector (white), fire brigade badge and 4 point chin strap 9256.
E-MAN
First double wall helmet with Crashbox on the market. The visor is protecting the whole face up to the chin and can be completely pushed up between the helmet shells if not used.

E-MAN
Helmet with integrated visor, which can be completely retracted into the helmet shell. For all work places that do not require permanent face protection.

E-MAN 4000 Class 1
E-MAN 7000 Class 2 according to GS-ET 29 in combination with EN 166.

*please see E-MAN brochure
ROCKMAN

House of Innovation

KIDS HELMET

BUMP CAP

9292 Baseball cap style with plastic insert for head protection for all jobs that do not require a safety helmet, like work in car repair shop. The cap will protect the head as well as keeping it clean from falling dirt/oil. Certified according EN 812.

<table>
<thead>
<tr>
<th>KIDS HELMET</th>
<th>K6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>Helmet Shell</td>
<td>No Ventilation Holes</td>
</tr>
<tr>
<td>Harness</td>
<td>6 - Point Plastic Suspension, washable</td>
</tr>
<tr>
<td>Comfort</td>
<td>Headband adjustable to different head sizes</td>
</tr>
<tr>
<td>Printing</td>
<td>Logo Print available from 1 - 4 colors</td>
</tr>
<tr>
<td>Form</td>
<td>Rain Gutter</td>
</tr>
<tr>
<td>Colors</td>
<td>Yellow, blue, red, special colors upon request</td>
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<tr>
<td>Weight</td>
<td>approx. 180 g</td>
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<table>
<thead>
<tr>
<th>9292</th>
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<tbody>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Designs</td>
</tr>
<tr>
<td>Harness</td>
</tr>
<tr>
<td>Comfort</td>
</tr>
<tr>
<td>Logo</td>
</tr>
<tr>
<td>Plain Colors</td>
</tr>
<tr>
<td>Accessory</td>
</tr>
<tr>
<td>Weight</td>
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</tbody>
</table>

The pictured caps reflect just a small part of the range. There are little to no limits when it comes to individualizing a cap. Of course one color caps are also available, see colors below under technical data.
CHIN STRAP
9257 chin strap with magnet fastener
The innovation is that both ends of the chin strap need to come close only to each other and then automatically will lock themselves without further effort.
While conventional fasteners occasionally happen to pinch the skin while the user is trying desperately to hook them up, this will never happen while using the 9257 chin strap.
We also offer conventional chin straps from cotton, leather, plastic, woven textile band etc.
Also available as 2 and 4 point chin straps.

SUPERCOOLER
9228 Sweatband from HighTec Fabric which can absorb large quantities of water. Sweatband should be immersed in cold water for 20 seconds only.
The amount of absorbed water is good for one entire working day without refill.
Water is not leaking through the fabric, not even under pressure. The cooling effect will start with the evaporation process. The kind of cooling feels very natural and comfortable. No overcooling, no constant water reloading.
The intensity of the cooling process adapts to the temperature of the environment.

WINTERLINER
We offer different types of winterliner like 9280, 9281, helmet sealer 9282 and adjustable hood 9285 designed for use in freezers

INTEGRASPEC
fully retractable visor to fit all of our helmets except the kids helmet.
Available as clear and tinted visor, very comfortable and designed for long term use.
Adding 32 grams only to the helmet weight.
RATCHET D
Can be ordered for all of our helmets except the kids helmet. Never need to take off the helmet for adjustment, one hand operation possible and recommended. Turning knob designed for being operated with gloves.

HELMET LIGHTS
Provides a tight fit through elastic textile band and band hooks. Also available with mount system allowing the use of the light without elastic band / hooks.
We offer several head lights including an EX protected light.

SWEATBANDs
We offer a wide range of sweatbands allowing the user to choose the one for his special needs and comfort.
Of course all of our sweatband meet REACH and do not trigger allergic reactions.
Since the start of our company we never had a complaint about a sweatband irritating the skin.

BALACLAVA
Hood made from NOMEX, heat resistant and designed for use in combination with a helmet for electricians like the E Series and the E-MAN helmets for additional protection. The stronger an electric arc is striking the higher is the risk that the heat wave will underflow the visor and cause face burns. Also the hood is protecting neck and chin of the wearer.

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