
RETRACTABLE VISOR HELMET E-MAN

Professional
Quality



red**dot** design award
winner 2009



NOMINEE



ENHAWORKROOM

Safety Line
by ENHA

The E-MAN helmet has been developed according to state of the art science of crumple zones in modern vehicle design. The helmet is being equipped with a fully retractable visor providing protection for the entire face.

E-MAN is introducing the CRASH BOX especially designed for partial or total destruction depending on the impact intensity. By destroying the CRASH BOX a certain amount of the impact energy will be taken over by the helmet shell while the rest of the impact energy is being forwarded to the suspension and from there to the head of the user.

The functionality of the CRASH BOX is comparable to the crumple zones on contemporary cars. The E-MAN helmet series offers a variety of accessories and upgrades according to every user need and workplace condition:

Ratchet system, 6 point textile suspension, helmet lights, chin straps (designed to fit the self releasing mounts on the E-MAN, all types of sweatbands etc.

Tech Data:

1. Specifications:

- o Helmet shell made from: ABS, UV stabilized
- o Suspension: 4 or 6 Point terylene harness, sweatband made from antiallergic fleece, pH value 7, washable
- o Visor: Visor is made from lens quality Polycarbonate

2. Certificates:

- o E-MAN has been tested and certified according to EN 397 (European Norme for Safety Helmets) and EN 50365 (Electricians Helmets). VDE approved

- Temperature resistance up to - 30 ° C (Standard: - 10 ° C)
- Electrical isolation according to EN 50365 3000 V

- o Visor has been tested and certified according EN 166, 167, 168, 170 and exceeds the standard requirements:

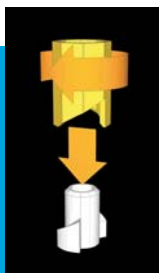
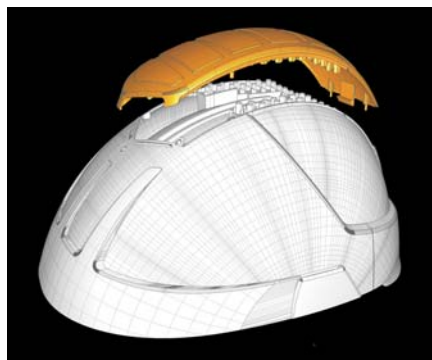
- Medium Impact (B = steel ball 6 mm with 432 km/h))
- Electric arc (8)
- UV Protection (2-1,2)
- Antifog (N)
- Antiscratch (K)

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- o Tested and certified* according to additional requirements for testing and certification of face shields for electricians according to GS-ET-29 BG Prüfzert

- Class 1: Electrical arc 4kA / 0,5 sec
- Class 2: Electrical arc 7kA / 0,5 sec * in progress

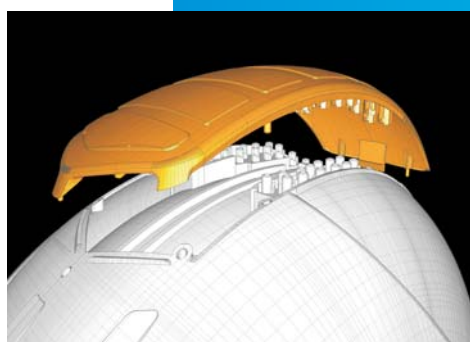
E-MAN



CRASH BOX How it works

The CRASH Box is made of

1. Torsion pins and cylinders on both the yellow lid and helmet shell (white)
2. Impact will compress the lid and drive it into the respective helmet shell cylinders. By compressing and destroying of the Crash Box, the E-MAN is capable to absorb far more impact energy than any single wall helmet and provides therefore additional protection to the user.



Accessories

E-MAN Accessories:

- Head light, LED, with permanently attached slot system or elastic headband
- Chin strap - without metal parts, optional chin protector, as 2 and 4 point strap from cotton, leather, plastic
- Sweat bands from fleece, leather, short and long
- Ratchet system, one hand operation
- Visor coating antifog / antiscratch



- 📦 Spare kit contains 1 E-visor + mounting parts



ELECTRIC ARC TESTING



On 29.03.10 the newly introduced practical test of electric arc protection according to EN 166 8 (test procedure described in GS -ET29) has been conducted at the test facilities of the Technical University Ilmenau/Germany. E-MAN helmet did pass the test successfully:

Class 1 = 4000 A for 0,5 sec*
Class 2 = 7000 A for 0,5 sec**



* E-MAN Standard

** E-MAN 7000

< Picture 1: Start of electric arc



< Picture 2: Peak of heat buildup



< Picture 3: Cooling down
v

