COST 327

Motorcycle Safety Helmets

Project details

<table>
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<tr>
<th>Domain</th>
<th>Vehicle Technology: Passive Safety</th>
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<td>Duration</td>
<td>from 01/06/1995 until 30/11/1999</td>
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Website

Other sources

- Final Report (7.24 MB)
- Additional information on the Cordis server

Head injuries cause some three-quarters of all fatalities to motorcyclists, while about one quarter of all injured riders suffer a head injury. COST 327 was formed to investigate in detail, motorcyclists' head and neck injuries.

The COST 327 action was established with seven research topics, with a timetable and four main objectives, all to be achieved using a wide range of European experience to determine or modify national approaches.

Topics:

- Literature review
- Accident data collection
- Headform assessment
- Reconstruction of helmet accident damage
- Mathematical model of the skull, brain, neck, and helmet
- Human tolerance to injury
- Development of test procedures

Objectives:

- The first was to establish the distribution and severity of injuries experienced by motorcyclists, concentrating on the head and neck.
- The second was to determine the most significant head and neck injury mechanisms.
- Thirdly, the tolerance of the human head, brain and neck to these injuries and injury mechanisms was to be established.
- The overall findings were to be used to propose a specification for future testing of motorcycle helmets in Europe.
### Coordinator

- TRL - Transport Research Laboratory (UK)

### Partners

- AGV helmets (IT)
- JÁFI-AUTÓKUT Kft. (HU)
- DFT - UK Department of Transport (UK)
- Swiss Federal Laboratories for Materials Testing and Research (CH)
- INRETS - Institut National de Recherche sur les Transports et leur Sécurité (FR)
- Ludwig-Maximilians-Universität München (DE)
- Politecnico di Milano (IT)
- South Glasgow - University Hospitals NHS Trust (UK)
- Technical University Eindhoven (NL)
- Göteborg University (SE)
- University of Hannover, Accident Research Unit (DE)
- University Louis Pasteur (FR)
- Université de Valenciennes et du Hainaut-Cambrésis (FR)