

A laser-sintered sports helmet can be ideally adapted to the requirements

e-Manufacturing with EOSINT P

Requirement:

- helmet for olympic sculler Dirk Lippits
- optimized for hot weather conditions in Athens

Solution:

- customized design to improve performance
- laser-sintering on EOSINT P 380 with PA 2200

Result:

- economic production of very small quantity
- improved functionality and comfort



Dutch sculler Dirk Lippits wearing the laser-sintered helmet (Photo: DSM)

Project partner: TNO, DSM

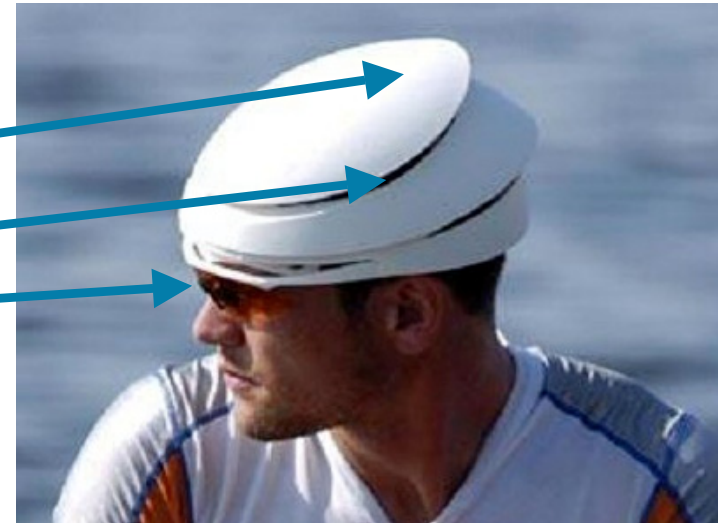


An unique product functionality can be reached by laser-sintering

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Customized design:

- panels to reflect sunrays
- ventilation slits for optimal airflow
- integrated sunglasses to filter water reflections



Laser sintered sports helmet (Photo: DSM)

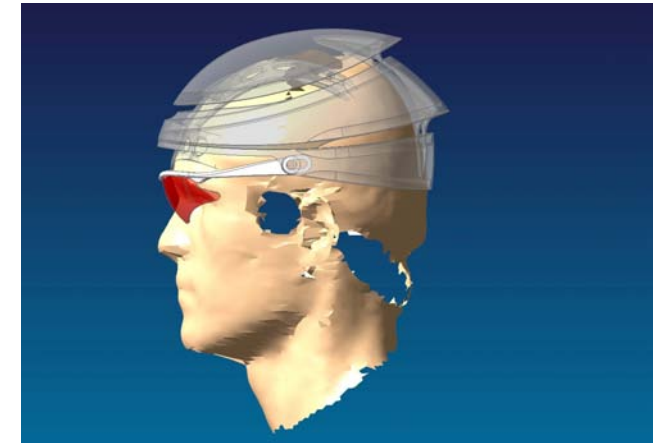
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Thereby the subjectiv well-being of the professional athlete can be raised

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Result:

- scalp temperature reduced by 0.2-0.5°C
- enables reduced body temperature which improves performance
- subjective assessment of Dirk Lippets: „Head feels cooler which gives psychological boost before and during racing“



Temperature measurement on the head

Project partner: TNO, DSM