

## Always looking for smart partnerships

At DCMC we unite global players that can make innovation happen. Joining forces is crucial to maximize the impact of our research and development hub. We are always looking for smart partnerships to further strengthen our position as the leading cluster of knowledge in the field of composites inspection, maintenance and repair. If you would like to join the DCMC or become a partner please get in touch.



DCMC is made possible by:



Provincie Noord-Brabant

## DCMC Foundation

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Foto: Ministerie van Defensie

# Development Center for Maintenance of Composites (DCMC)



[www.composite-maintenance.com](http://www.composite-maintenance.com)

We maintain. We research. We innovate.



## Cluster of knowledge

The Development Center for Maintenance of Composites (DCMC) is the world's foremost cluster of knowledge in the field of composites inspection, maintenance and repair. Located in Woensdrecht, the Netherlands, DCMC focusses on long-term partnerships with leading companies and research institutions to combine and share knowledge and expertise. By continuously developing innovative projects, DCMC further strengthens its excellent competitive position as an international hub.



## Economic opportunities

DCMC's focus on composites inspection, maintenance and repair is based around three important developments and economic opportunities:

- The increasing use of composite materials in numerous applications, including aerospace, automotive, maritime, construction, renewable energy and infrastructure
- The fast development of new technological applications in the maintenance sector for inspection and repair of composite materials
- Further strengthening of the economic competitive position of South Netherlands in the field of high-tech maintenance applications for composites in the aviation industry

## Innovation tracks

Together with its partners, DCMC initiates and facilitates new research in the field of composites inspection, maintenance and repair. By combining and sharing knowledge and expertise we can significantly increase the cost-effectiveness of fundamental research. Since our creation, DCMC has initiated a number of innovation tracks.

Our innovation tracks include:

### Bonded Repair of Primary Composite Structures

Developing a certified method for so-called adhesive 'Bonded Repair' of composites, using composite patches glued in or over the damaged area, in compliance with the airworthiness certification requirements.

### Non-Destructive Research in Service

Developing a reliable, fast and automated non-destructive evaluation scanning method for the inspection of large composites surfaces.

### Improved Rotor Track & Balancing

Developing an innovative helicopter rotor blade static testing facility capable of measuring the properties relevant for the blade dynamic behaviour, in order to ultimately reduce the number of required flights for RTB and reduce helicopter maintenance costs.

### Thick Walled Composite

Improving inspection techniques to monitor and detect the relevant mechanisms to find failures in large, thick-walled maritime infrastructural composite constructions.

### Field & Onsite Repair Composite Structures

Developing field and onsite repair methods of composite structures, focusing on the automation of composite repairs, long-term quality assurance, shortening the repair time and making repairs possible on site.

### Automated Laser Preparation

Automating the abrasion process using very accurate lasers, milling and water jets for the automated removal of damaged composite material in order to drastically shorten the repair time of composite structures.