Composite repairs are complex, time-consuming, and dependent on a skilled mechanic. The current repair process is often susceptible to user-error and inconsistency, which raises concerns surrounding the structural integrity of the repair patch.

ADVANTAGES

Our proprietary technology, a rapid composite patch repair system, allows repairs to be made with greater precision and speed. This technology first scans a damaged composite area using a handheld scanning device and then sends the data wirelessly to a manufacturing facility, where a repair patch is immediately prepared. This on-site scanning process significantly reduces the amount of time needed for preparing a repair patch.

APPLICATIONS

The technology includes a unique application tool for holding the repair patch in place for a quicker and more accurate repair process. By precisely capturing the geometry of the damaged area during the scan, the technology can automatically generate a 3D printing code for a tool that conforms to the damaged area. The fully expedited process includes scanning a damaged area, receiving a shipment of a custom composite patch having an application tool, and then in one step perfectly applying the patch to the damaged area.

- Aerospace
- Additive Manufacturing/3D Printing
- Automotive

For additional information, please contact:
Rob Gerlach, Director of Intellectual Property & Technology Transfer
rob.gerlach@wichita.edu | (316) 978-6980