



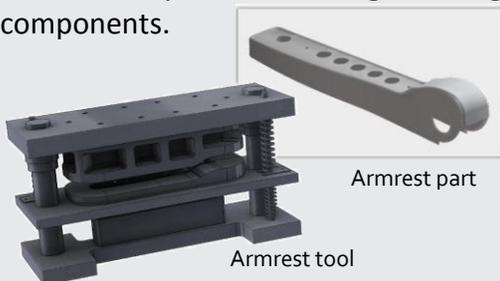
# Cost Effective Forming of Lightweight Complex Structures

## The Project

The **LoCoLite** project's aim is to establish production lines in Europe that manufacture components for lightweight complex-shaped body structures of automobiles, trains and aircrafts, which are significantly lighter and of comparable strength and stiffness to those currently available.

## Technological Highlights

New Trials: The tooling components for an aerospace armrest demonstrator part have been completed and are currently in the assembly stage in order to enable forming trials in the near future. In addition, ongoing simulation work is being conducted on a gravity housing aircraft component to design tooling components.



ITL's development HFQ<sup>®</sup> production line is due for completion in Q2 2016. The new facility is located in Coventry, the heart of the UK automotive industry. The facility will be the world's first dedicated HFQ<sup>®</sup> production line (with equipment supplied by A P & T) and a show case for HFQ<sup>®</sup> as well as the associated technologies developed as part of the LoCoLite project.

## Dissemination activities

The LoCoLite partners are constantly producing new research that benefits not only the core goals of the consortium, but is also of interest to the wider scientific community. Therefore, one key part of the LoCoLite dissemination was to present the developments of the various groups at an internationally recognised scientific conference. Consortium partners submitted papers and attended the <http://www.icnft2015.com/> - 4<sup>th</sup> **International Conference on New Forming Technology** in Glasgow in August 2015. Due to the large number of papers relating to HFQ<sup>®</sup> forming and the LoCoLite project, a keynote speech was given and a special session was organised by consortium partners. Video of the conference loaded on the LoCoLite YouTube channel <https://www.youtube.com/watch?v=OAt6U238H5w>

ESI and ITL attended the **FORMED IN THE UK 2 (FitUK2)** conference which was held at the Advanced Forming Research Centre in Glasgow on 2nd December 2015. ITL gave a presentation on HFQ<sup>®</sup> and bringing the technology to market. The LoCoLite project was a part of the presentation.

New Twitter account [@localiteeu](https://twitter.com/localiteeu)



HFQ<sup>®</sup> is a registered trademark of Impression Technologies Ltd in the UK,

## Consortium

The **LoCoLite** consortium involves 16 companies and research institutes from eight European countries.

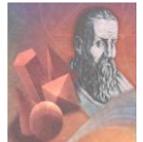
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