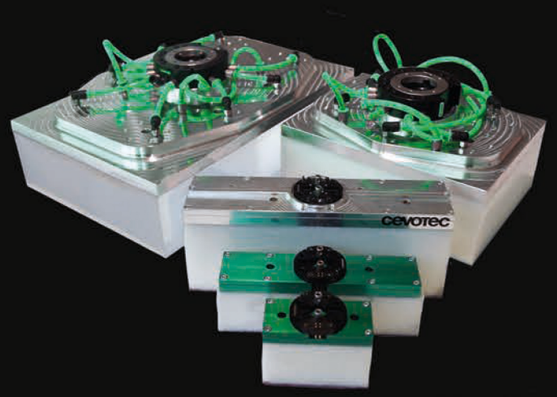
cevotec

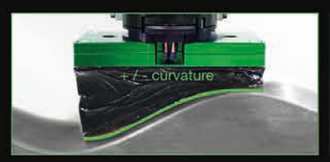
# Overview: Fiber Patch Placement technology

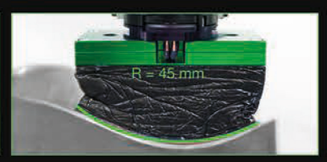


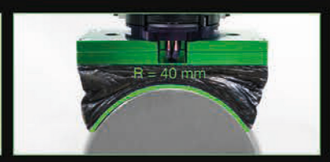

## cevo**Gripper**

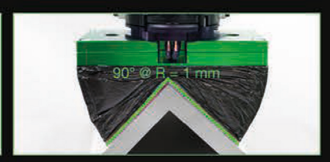
The key to a fast and automated lay-up process for complex shapes is our form-flexible patch gripper. The gripper is available in tailored sizes to perfectly match your product.

The gripper adapts to the most complex surfaces. Even across 90° angles and biaxially curved surfaces, patches are placed precisely and without negative draping effects.




· Available in sizes from 45 mm x 95 mm up to 240 mm x 360 mm
· Automated quick-mount device for fast and easy gripper changing on-the-fly
· Anodized, precisely machined aluminum baseplates
· High mass-flow vacuum stream, powered by pressured air
· Customized body to meet specific compaction requirements
· Optional heating field for dry fiber tape with heat-activated binder

**FPP automation accelerates more than just the lay-up rates. As patches are cut directly from a tape, there is no need for cutting and kitting plys from a cutting table. The placement with controlled high pressure reduces or eliminates time-consuming intermediate debulking steps.**

In addition, the development time of new components is significantly shortened with the support of the FPP-specific CAD-CAM software ARTIST STUDIO. The software generates patches automatically along defined guide curves and also performs a fully automated, offline robot programming.

## Lay-up rates of SAMBA *Series*

Effective lay-up rates result from process parameters and can be customized to applications.
The productivity of all SAMBA machines follows the same simple math for throughput calculation:

$$\dot{m} = \frac{patch\ length * patch\ width * areal\ weight * no.robots}{patch\ cycle\ time}$$