

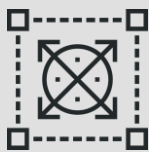


FibreMOVE

2D composite ply pick and place gripper

By using a configurable array of gripper modules it is capable of taking the shape of a wide variety of ply patterns, from rectangles to door or window frame panels.

This system is aimed at, but is not limited to, sorting and kitting applications where composite plies are transferred from a cutting table or conveyor to a sorting and ordering system.



FLEXIBLE

Capable of handling a wide variety of ply patterns from rectangles to window frame panels.



POWERFUL SOFTWARE

Capable of reading CAD data and automatically generating an appropriate gripper configuration.



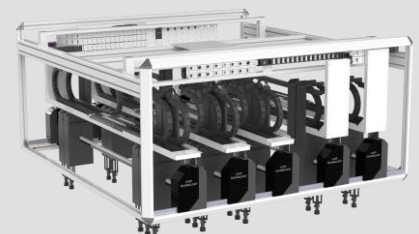
EASY TO INTEGRATE

Can be mounted on a robot or gantry system and take ply shape data from a camera system or cutting table controller.

How does it work?

Designed to be mounted on a robot or gantry system, FibreMOVE works by taking ply shape data from a camera system or cutting table controller in order to calculate an even distribution of grippers within the ply boundary.

Grippers are then automatically driven to these locations and the fibre is lifted. This allows automated pick and place of complex 2D shapes which can be presented in random order and orientation.



Software Interface

A powerful software interface is supplied with the system allowing both automatic and manual control of the gripper. Built into the interface is a recipe editor capable of reading CAD data and auto generating an appropriate gripper configuration.

At runtime, commands can be sent to the controller either specifying a Recipe and Ply ID in which case the gripper will configure to its saved geometry or alternatively listing the required x, y locations of each cup.

Technical Specification

| | |
|--------------------------|--|
| Overall Footprint (X/Y) | 1780mm x 1690mm <i>variant sizes available</i> |
| Pickable Area | 1530mm x 1725mm <i>variant sizes available</i> |
| Gripper Technology | Vacuum cup, Bernoulli or cyclonic (<i>max diameter 75mm</i>) |
| Positional Repeatability | < +/- 1mm |
| Total Mass | 250kg including support frame |
| Operational Plane | Horizontal |



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