



FibreKIT

Ply storage and kitting systems

When optimal ply utilisation is a priority, Loop Technology can design, manufacture and install fully integrated composite kitting systems using their expertise in automation and composite material handling as the foundation.

These systems offer a comprehensive automated composite ply handling and management solution starting from automated carbon fibre ply feeding to a cutting table, through to the fully kitted stage where composite plies can be presented in prescribed order for immediate assembly.



FULL TRACEABILITY

Fully programmable RFID system can be used to track contents including Kit IDs, missing plies and ply life data.



PORTABLE

Portable models are available with simple and highly accurate positioning systems.



EASY TO INTEGRATE

Our system can be run fully automated or operator assisted to suit your needs.

The system can include:

- Raw material roll feeder
- Cutting table
- Drawer or roller-based ply storage (FibreSTORE)
- Ply tracking
- Vision system-based ply location capability





FibreSTORE

Ply storage systems

Our ply storage systems are designed for use in combination with one of our robot or gantry mounted deposition systems. Nested plies of carbon fibre can be picked from the cutting table or conveyor and sorted into discrete kits in reverse lay-up order.

Flat Ply Storage

Compatible with FibreFORM or FibreMOVE



- Standard system for a 20 drawer store, 2m x 1m kit placement area available, or we can custom tailor to suit your needs
- Each drawer can hold up to 100kg material, 20mm thick
- Portable with transport assistance
- High-contrast to assist camera visioning
- Safety mechanism to allow only one draw open at a time under manual operation
- Guiding system ensures repeatable positioning to ± 1 mm

Rolled Ply Storage

Compatible with FibreROLL



- Lengths between 1.3m – 5.0m
- 4 roll storage
- Up to 235mm diameter
- Individual, self-aligning, pinch arm for each roll (to hold the material on the roll and prevent unwanted unravelling)
- Compact design with minimal footprint achieved with lift actuators driving individual roll storage to pick/place position, enabling rolls to be stored closer together

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