

OPTIMA 3D LTD 
COMPOSITE WEAVING SOLUTIONS

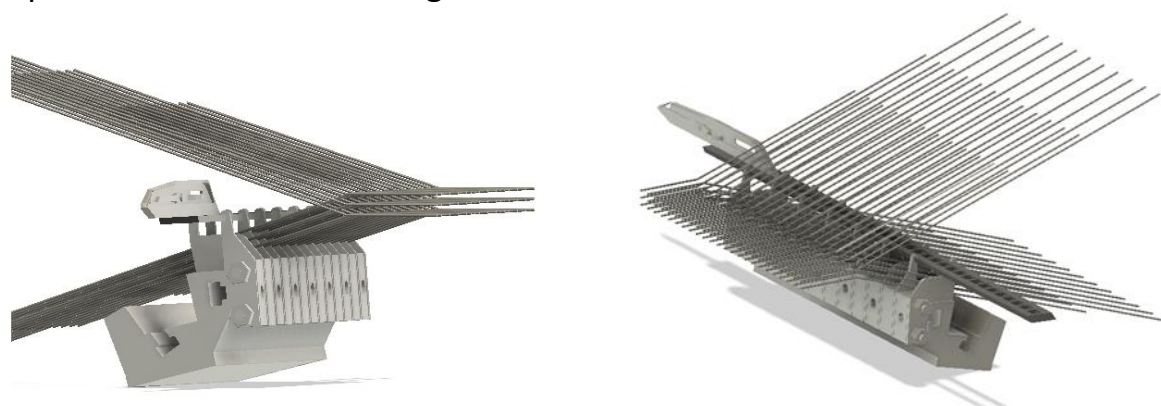
OPTIMA SERIES "R" LOOM

The **Series R** is a flexible Guided Rapier loom which can be equipped with either Dobby or Jacquard shedding functions. The primary application is for the manufacture of multi-layer composite fabrics with a maximum fabric thickness of 2.5cm and nominal weaving width of 120cm. Optima's range of looms all deploy cutting edge drive & control technology offering excellent versatility via Optima's Digital Platform. The Digital Platform is accessed via the onboard touchscreen where all machine and pattern settings are performed.



FLEXIBLE GUIDED RAPIER

The key feature of the **Series R** machine is the Guided flexible Rapier which is controlled by a series of polished guide plates. Set on a lateral track, the guide plates allow the warp yarn layers to pass on either side, resulting in a reduction of possible cross fibre damage to warp yarns by the Rapier elements. The single Rapier motion moves from right to left.



TECHNICAL SPECIFICATIONS

Shedding Function: via Dobby or Jacquard.

Reed Function: Oblique Reed motion via Synchronous Cam box drive.

Weft Insertion: Flexible Guided Rapier via Synchronous Cam box drive.

Fabric Take Up: Electronic drive & control of either Surface Roller or Linear Table.

Warp Delivery: Electronic drive & control of single or multiple warp beam, or Creel with optional electronic single or multiple warp delivery roller system externally mounted.

Optima offer a custom build service which is based on variants and options from the standard specifications listed above. Optima can also supply various ancillary equipment resulting in a complete **Turnkey** package.

For further information please contact: sales@optima3d.co.uk where we will be happy to discuss your individual requirements. www.optima3d.co.uk