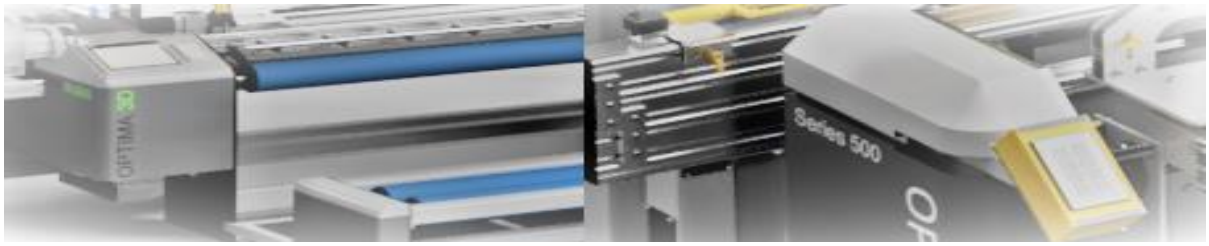


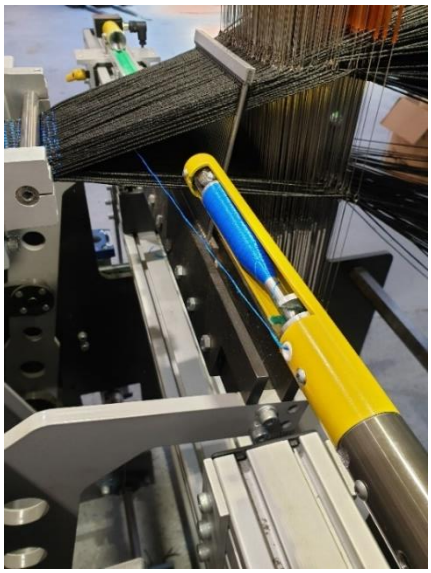
OPTIMA 3D LTD
COMPOSITE WEAVING SOLUTIONS

OPTIMA SERIES "S" LOOM

The **Series S** is a Shuttle loom which can be equipped with either Dobby or Jacquard shedding functions. The primary application is for the manufacture of near Net Shapes, Billets and Para-Beam composite architectures with a maximum fabric thickness of 10cm and nominal weaving width of 50cm. 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.

RIGID GUIDED SHUTTLE & VARIABLE POSITIONING

The key feature of the **Series S** machine is the Rigid Guided Shuttle capsule which can be positioned vertically to attain the optimal shuttle insertion point. As the warp yarn layers increase in thickness, the shuttle insertion point is pre-programmed to follow the vertical movement with a maximum possible thickness of 100mm irrespective of the number of layers. All the primary functions of the machine are individually servo driven, allowing absolute control of each function via the Digital Platform software programme.



TECHNICAL SPECIFICATIONS

Shedding Function: via Dobby or Jacquard.

Reed Function: Oblique Reed motion via eccentric servo drive.

Weft Insertion: Rigid Guided Shuttle via Servos driven linear 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