



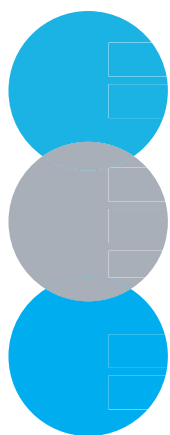
SYNERGEX

Composite Technology Revolutionized

Coats, the world's leading thread and yarn manufacturer, has used its core capability in high performance yarn to develop an innovative patent pending process to produce a range of enabling composite solutions.

Coats Synergex is a thermoplastic composite technology that is the perfect harmony of strength, weight and performance. Compared to more established methods and existing textile technology, Coats Synergex can provide manufacturing and process cost efficiencies, plus help to reduce material waste.

The value of Synergex:



☐ Eliminates the need for resins and autoclaving which can accelerate manufacturing processes providing efficiencies as well as helps to reduce cost and material waste.

☐ Material waste can be reduced from 30%+ to less than 5% by producing material into near net shape rather than cutting a net shape from an existing sheet or roll of fabric.

☐ Components can be optimised due to being able to truly tailor where the reinforcement fibre is required which is also a cost savings.



Fibre to part in four rapid steps

1

Carbon and Thermoplastic Yarn



2

Commingled Yarn



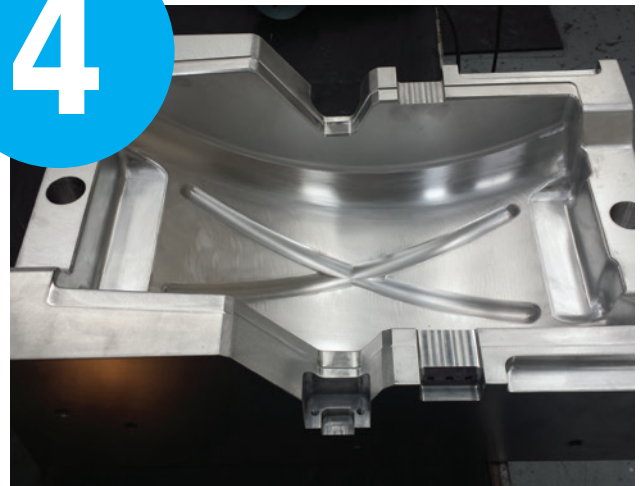
3

Tailored Fibre Placement Preform



4

Pressing



Finished Piece

