



Internal Mandrel

This 3D printed part is an internal mandrel tool which is used to create a composite pipe. The internal mandrel tool was printed on the Neo450s using Somos® DMX-SL 100 resin. This resin can withstand high temperatures utilized in the autoclave process for composites manufacturing maintaining its flexural strength, elongation and tear resistance. These unique properties allow, at a certain temperature, for mandrels to be removed from complex and convoluted geometries through a “dry removal” process which is unique for a solid mandrel. The composite pipes used on vital components of cars such as break ducts or engines require a specific type of manufacturing method that retains good internal surface in order for the tool to be extracted from the pipe.

Industry	F1
System	Neo®450s
Material	Somos® PerFORM and Somos® DMX-SL 100
Build Time	Somos® PerFORM Tool - 18h 50m, Somos® DMX-SL 100 Mandrel - 8h 34m

ISO 9001:2015 Certified

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