

REINFORCED **WING SPAR** DEMO TOOL

The co-cured reinforced skin panel, or wing spar, is a demonstration of how Smart Tools that act as bladders can be used as stringers to reinforce skin panels.

SMART TOOLS AS BLADDERS

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HOW IT WORKS

Carbon fiber pre-preg is placed into the lower half of the female cavity of the cure mold. Next, prepreg is placed onto the rigid Smart Tool and placed into the female cavity and a layer of prepreg is placed over top.

The mold lid is placed and vacuum bagged for cure. After the cure cycle, the now elastic Smart Tool is removed from the composite with low force, and reformed in the reforming mold.



Cure Mold with Smart Tool Smart Tool Reforming Mold







Engineering & Technician Support 

Standrd Operating Procedure



Step by Step Video Instructions



VKS Digital Work Instructions

PRICING

\$ 1,000 Cure Mold \$ 500 Noodle Tool \$ ### Smart Tool*

*Exact prices per Smart Tool are dependant on resin type, which is specificed by the customer





REINFORCED WING SPAR

TOOLING DIMENSIONS & DESCRIPTIONS

