

Engineering Services

- Leverage HFW's integrated aluminum factory model

Design For Manufacturing

- Ensures clients maximize HFW's unique capabilities such as FSW complex, aluminum structures
- Product Requirements
 - Material
 - Dimensions, tolerances, preparation, properties
 - Process
 - Material input/output, throughput, process timeline, tooling, material handling

Conceptual Product Designs

- Process development to define material properties (if needed)
- Initial design and trade off analysis per FRS
 - Evaluate tooling (lowest risk, highest rigidity, minimize distortion)
 - Evaluate products at the component, sub-assembly, and structural module level
 - Integration strategy to streamline products into manufacturing facility
 - Reduce scrap, labor, and time



HFWSOLUTIONS

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