



Request for Quote

King Air B300C Tail Cone 3D Scanning *PM24-018*

Log of Revisions

Rev.	Effected Page(s)	Description	Date
IR	All	Initial Release	7/24/24

Introduction

Triangle Aviation Solutions (TAS), hereafter referred to as “Buyer”, requests a quote from Mimic 3D, hereafter referred to as “Seller”. Buyer requests a quote providing firm fixed price cost and delivery schedule for the scope of work defined within this request for quote (RFQ) document.

Background

Buyer needs to develop a 3D Solidworks model of the Textron/Beechcraft maritime strake installation on a King Air B300C aircraft. The 3D Solidworks model needs to be a fully featured model that will support to follow-on objectives. First, will be to provide the model to a vendor to be mated with their existing B300C model for the purpose of completing a computational fluid dynamics (CFD) analysis of the aircraft with the installed maritime strakes. The second objective is to use the full featured model to take highly accurate measurements of the strake installation for comparison to installation drawing to assess the accuracy of the installation.

In order to deliver the required 3D Solidworks model, Buyer is requesting a 3D scan of the King Air B300C tail cone area around the maritime strake installation. The scanned information shall be used to develop the required 3D Solidworks model deliverable outlined within this RFQ.

Assumptions/Constraints

Below are the assumptions and constraints on which to base the quote. If any of these assumptions are incorrect or the constraints cannot be adhered to, it is the Seller’s responsibility to clearly communicate the noncompliance.

1. Buyer will have intellectual property rights to all drawings, reports, installation instructions, models, or any other data or materials developed in support of this effort and under this contract.
2. This effort will be quoted as a firm fixed price proposal (FFP).
3. All 3D models developed in support of this effort shall be compatible with and able to be ingested by Solidworks version 2023.
4. Solidworks 3D model files shall be deliver in “.stp” or “.step” file format.

5. All 3D scanning work shall be performed at the Buyer's facility located at Johnston County Regional Airport (KJNX). The physical address is 3463 Swift Creek Road Smithfield, NC 27577.

Buyer Furnished Equipment/Information

This is a complete list of the Buyer furnished equipment and/or information that will be provided in support of this request. Any items **NOT** listed below are considered Seller furnished.

Buyer Furnished Information

1. Buyer will provide 3-4 measurable reference points to include in the scanning area.

Buyer Furnished Equipment

1. Aircraft King Air B300C S/N FM-4 located inside Buyer hangar

Scope of Work

1. 3D scan the tail cone of King Air B350C aircraft

1.1. Travel

- 1.1.1. Seller will travel to Buyer facility to perform 3D scan

1.2. Aircraft Configuration

- 1.2.1. Aircraft will be on jacks and/or access will be limited to required personnel to limit movement of aircraft during scan.

Deliverables

1. Deliverables

- 1.1. Solidworks 3D Model of King Air B300C S/N FM-4 Tail Cone

- 1.1.1. File format shall be ".stp" or ".step"

- 1.1.2. Model shall fully define the tail cone and maritime strake installation as defined in Appendix A of this RFQ.

- 1.1.3. Model shall have all features of the tail cone and maritime strake installation fully defined enabling both visual feature recognition and detailed measurements within Solidworks. These features shall include but are not limited to fasteners (rivets or screws), skin laps, externally mounted brackets, access panels, strakes, etc.

Contact Information

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Appendix A: King Air B300C Tail Cone & Maritime Strake Scan Area

