

BF10

PROP/ROTOR DESIGN SPECIFICATION FORM

ROTATING COMPOSITE TECHNOLOGIES, LLC 49 CAMBRIDGE HEIGHTS KENSINGTON, CT 06037

DESIGN REQUEST

Rotating Composite Technologies, LLC (RCT) requests completion of this prop/rotor design specification. This provides design information to RCT's engineering team to ensure that a thorough preliminary design analysis can be performed.

RCT places a particular emphasis on understanding your vehicle performance goals and program priorities. Good understanding of your program's prioritization of cost, noise, weight, performance, appearance, etc. is critical, so that RCT can engineer a technical solution closely aligned with your program priorities.

All the information you provide will be held in strict confidence. RCT understands that development programs are a work in progress. If your program has grey areas, please provide as much specific information as you can at this time. If the requested information is unknown or "TBD", indicate the ambiguity, rather than leaving blanks. This allows RCT to provide you with our best technical solution.

Completing and returning this form does not commit you to any program expenditure, conversely, it does not commit RCT to participate in any program.

If you have questions, please contact the provider of this form.

1. COMPANY/PROGRAM DATA

Company Name:					
Preparer's Name:					
Title:					
Phone:					
Email:					
Vehicle Model:					
Earliest Need Date:					
Program Priorities (rate sequentially from 1 to 6, 1 is highest priority)					
Performa	ance	Noise			
Cost		_ Durability/Repairability			
Weight		Other:			



2. APPLICATION DATA

Installation Position:	Tractor				
	Pusher				
	□ Lifter				
	□ Other				
	(If this request is for multiple props/rotors, consider providing a labeled 3-view of the vehicle to denote installed positions: 1, 2, 3.etc)				
Drive Engine/Motor:	Make/Model:				
	Rotation: CW CCW (viewed along the shaft axis facing the drive flange side of the prop/rotor If both rotations are required on your vehicle, check both)				
	Drive Attachment: Please provide the attachment drive flange specification, or an interface drawing showing the critical dimensions/tolerances/interface requirements if available				
	Max Continuous: HP RPM				
	Takeoff:	HP	RPM		
	Min Spd (turbines only):		RPM		
Propeller System:	Props/Rotors per vehicle:				
	Diameter (max):				
	Installed Weight (preferred):				
	Polar Moment Limit (if any):				
	Preferred Blade Count (if any):				

Design Conditions : (please indicate engineering units for provided values, you can provide a separate table if you have more design points to include.)							
Condition Name (Takeoff, cruise, etc)	Priority (1=high)	Inflow Velocity**	Altitude	Temp (or ∆ ISA)	Power	RPM	Thrust Target (if any)

**Unless an inflow distribution is provided, RCT reserves the right to choose an inflow or analyze with uniform inflow.



3. ACTUATION AND FEATURES

Actuation:	Fixed Pitch		
	Variable Pitch		
		Feathering	
		Reversing	
	Actuation Meth	Od:(please provide interface details)	
		Hydraulic	
		Mechanical	
Ice Protection:	De-Ice Desired	(Electro-thermal)	
	Anti-Ice Desired (Fluid)		

4. ADDITIONAL NOTES/REQUESTS



