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Propellers design and production
Design organization EASA AP148

QUESTIONNAIRE

for the calculation of propeller design

Please fill the form out and complete it than send it to AMS Aviation. Tthank you.

1. Airplane:

Date: _____

Type of Airplane:* _____ Contact info:

Name, Make, Model: _____ (Name) _____

Manufacturer: _____ (Email) _____

Max. T.O. Weight: lbs or kg _____ (Phone No.) _____

Wing Area: ft² or m^2 _____

***** (aircraft, motorglider, selflaunch glider, sustainer glider, autogyro, trike, drone, etc.)

2. Engine:

Name, Make, Model: _____

Take-off power / maximum HP-RPM: HP _____ RPM _____

Max. continous power: HP _____ RPM _____

No. of cylinders: _____

Drive (direction drive or reduction drive): _____

Gear Ratio / Reduction Drive (if applicable): _____

RPM restrictions: _____

3. Airplane performance:

Flown or calculated: _____

Max. horizontal speed, at Sea Level:** kts _____ RPM _____

Max. horizontal speed, at _____ ft:** kts _____ RPM _____

Cruise Speed: kts _____ RPM _____

Best Rate of Climb (S.L.): ft/min _____ kts _____

Vne: kts _____

****** (level flight, max. continous power)

4. Desired propeller:

Fixed Pitch or Ground adjustable: _____

Stackless (No Folding) or Folding-Forward or Folding-Back: _____

Configuration, Tractor or Pusher: _____

Max. propeller permissible Diameter: inch _____ mm _____

Number of Blades (two bladed propeller is the standard design for folding propellers):
(ground adjustable propellers can be of three or four bladed as well) _____

Rotation (view in flight direction):*** _____

Principally designed for (Climb, Cruise, Allround, Aerobatics): _____

Engine Flange type - bolt pattern (Rotax, VW pattern, SAE-1, SAE-2, etc.): _____

Engine flange Bolt size: _____

Assembly on prop.Shaft, with or without adaptor Spacer, distance **A** or **B** (look next page): inch _____ mm _____

******* (Lefthand or Righthand)

5. Already tested propeller (if):

Type: _____

Fixed Pitch or Ground adjustable or Constant Speed: _____

Stackless or Folding-Forward or Folding-Back: _____

Diameter: inch _____ mm _____

Pitch: _____

Static RPM at full throttle: RPM _____

6. Spinner design (if):

Spinner diameter, E: inch _____ mm _____

Engine Flange position, A or B: _____

Distance to Flange, **C, if**: inch _____ mm _____

Distance to engine hood, **D**: inch _____ mm _____

Trim Angle: ° _____ at the Position: _____

Spinner length, F: inch _____ mm _____

Nose form, pointed or round: _____