What kind of hub would you need for a Catto Variable pitched prop? Discussion on VOBA.

On 8/16/2018 11:10 AM, Michael J BARON (Mbaron@myhomesolution.net) wrote:

What’s the model of McCauley hub would I need? I’m planning on purchasing the catto blades and would love to start searching now

Sent from my iPhone

On Mon, Aug 20, 2018 at 5:13 PM, David Orr (David@CanardFinder.Net) <mailer@mail2.clubexpress.com> wrote:

*View/reply* [*online*](http://VOBA.clubexpress.com/content.aspx?page_id=2161&club_id=495146&item_id=814392&message_id=2035383)*Reply to forum at* *forum@velocityowners.com*

I followed up on the question of McCauley propeller hubs.

First, I went to Santa Monica Propeller, which refurbishes props - I worked with the founder as a well respected litigation expert in the 1980s; one of his top people took over the business - Mr. Pedro Perades - who was very helpful with the question of which McCauley hub you will need for Catto - I've included his card and the pages from the manuals he thought most descriptive.  I wrote the current new price and his speculation on the usual "used" prices.  I'm sure Catto will tell you his needs when the time comes, however.  Pedro pointed out that a prop strike accident is ruled out by McCauley for used prop hubs.   There are Continental and Lycoming versions on the 3 blade page, one with a 4" extension and one without extension built in for each engine brand.  Further, the 2 blade page has only non-extension hubs, one for each engine brand.  Santa Monica Prop refurbishes and die penetrates the hub (if I got the right term) for about $400, he showed me one in process (photo).

Talking with Dave Ronneberg I learned that if you send a used hub to Catto, he sends it to a Sacramento area prop repair station and charges more for refurbishment.  The other odd thing is that the McCauley page doesn't show any 6" extension propeller hubs - and Dave and Dick Rutan both have that length extension.  (No page in the manual for that size.)  Dave extended his cowl and Dick's for the longer extensions.  Dave should be testing a Catto prop (with 6" McCauley hub) for his Berkut soon...

I don't think you can apply our experience with 8" extensions on the light weight props, in other words 6" might not be better than 4" extended hubs.  I wonder if you will have enough clearance for cowls, etc. with non-extension versions shown for 3 and 2 blade hubs and whether the blades might be too long on the 2 blade hubs.  I don't know if our well built Saber extensions can be added with these prop hubs - although one of the reasons we in Long EZs went to 8" was the assurance that the engines on twins could handle the gyroscopic forces, particularly as our props were so light.  I'll put a note to Saber....

David Orr

**Got this note back on Catto/McCauley prop system.  If you get a short hub, you can get a good Saber extension:**

David,

We make prop extensions for constant speed props ( Hartzell, McCauley, MT and Hoffman) up to 6" long depending on the weight of the prop. A constant speed prop hub will move the prop forward a minimum of 1.75". **(I suspect he's thinking Tractor aircraft there. I'd think of a Saber 4" or 6" extension on the short McCauley hubs.)**

Thanks

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