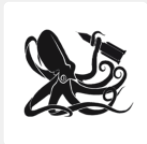


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[1.1.3] K.R.X Kerbal Rotor Expansion 0.31.1

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58

By Eskandare, June 30, 2016 in [Add-on Releases](#)

[mod](#) [helicopter](#) [engine](#)

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Posted June 30, 2016 (edited)

[Report post](#)

Eskandare Heavy Industries



Members

+ 1,102

1,314 posts

Location: Sitting in my chair.



Need More Rotors?

Apart from Firespitter and KAX, I felt there wasn't enough rotarywing parts. This mod is my attempt to answer that.

Introducing K.R.X. (Kerbal Rotor Expansion).



[DOWNLOAD](#)

From
SpaceDock!

Videos:

➤ [Reveal hidden contents](#)

Included in this release:

- Heron: coaxial rotor
- Sparrow: 3 blade rotor (left and right rotating versions)
- Osprey: 3 blade tilt-rotor style (left and right rotating versions)
- Seagull: 6 blade super heavy rotor
- Tail Rotors: 3 Blade, 6 Blade, and Fenestron

Issues:

- Some tuning and balancing is still needed.
- Co-axial rotor (Heron) has a problem with one of the rotor switch/prop-blur, a limitation of firespitter. I'm working on a fix.

Recommended Mods:

- [Throttle Controlled Avionics](#): For single rotor use 'unbalanced thrust' on the main rotor and 'manual' on the tail rotor. For intermeshing, tandem, or quad, etc. configurations, use 'thrust'.

Change Log:

Version 0.31.1 Minor Update

- Fixed Crash Tolerance on Fenestron tail rotor
- Fixed Spelling Error on Osprey rotors
- Increased torque compansation in Osprey rotors

Version 0.31:

- Added Fenestron tail rotor
- Corrected the direction of the Osprey rotors
- Increased the thrust of the Osprey rotors

Additional Credit:

- Snjo and RoverDude: for [FireSpitter](#) (*.dll Packaged with K.R.X.)
- Keptin: The sounds were made by Keptin (tweaked by me) and for much of the inspiration of this mod.



This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](#).

Edited August 11, 2016 by Eskandare
Update



Quote

You, JeffreyCor, EpicSpaceTroll139 and 42 others like this



Eskandare Heavy Industries

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Helping with [KerbinSide - New Bases For Planet Kerbin](#)

Deimos Rast

Senior Rocket Scientist



Members

+ 555

Posted June 30, 2016

Report post

mighty fine looking; any tails or just mains?



Quote



1,380 posts

DownHereInChile

Fighter Designer



Members

+ 20

81 posts

Posted June 30, 2016

Report post

Awesome! Do they work well with FAR, or do they end up being overpowered?



Quote



Check your staging



Beetlecat

Sr. Spacecraft Engineer



Members

+ 574

1,613 posts

Posted June 30, 2016

Report post

Outstanding!

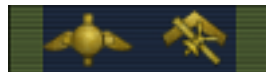
Thank you.



Quote



Onward!



Qwarkk

The Clock is Running



Members

+ 47

131 posts

Posted June 30, 2016

Report post

Nice work, this looks awesome. Time to manually recover pods!



Quote



Eskandare

Eskandare Heavy Industries

Posted June 30, 2016 (edited)

Report post



Members

+ 1,102

1,314 posts

Location: Sitting in my chair.

On 6/30/2016 at 6:34 PM, Deimos Rast said:

mighty fine looking; any tails or just mains?

I'm currently making tail rotors in 6 blade and 3 blade, and also a 4 blade rotor and tail.

On 6/30/2016 at 7:11 PM, DownHereInChile said:

Awesome! Do they work well with FAR, or do they end up being overpowered?

May be overpowered, I don't know yet. I'm planning a FAR patch in the future.

Edited July 1, 2016 by Eskandare



Quote

DownHereInChile likes this



Eskandare Heavy Industries

- [Check out my mods](#)

Helping with [KerbinSide - New Bases For Planet Kerbin](#)

martinezfg11

Kerbal Atmosphere Program



Members

+ 317

470 posts

Posted July 1, 2016

Report post

You beat me to it. This is exactly the type of project I've been wanting to tackle.



Quote



[AoA Tech - Aviation Parts](#) | [IVA Everything](#)



Atatra

Constantly Tired



Members

+ 12

64 posts

Posted July 1, 2016

Report post

this looks incredible, made me so excited when it popped up on spacedock, need to get this installed as soon as possible!

do the osprey rotors have any kind of tilt function currently or planned, or are you recommending we use infernal robotics with them?



Quote



Eskandare

Eskandare Heavy Industries



Members

+ 1,102

1,314 posts

Location: Sitting in my chair.

Posted July 1, 2016

Report post



On 7/1/2016 at 4:12 AM, Atatra said:



this looks incredible, made me so excited when it popped up on spacedock, need to get this installed as soon as possible!

do the osprey rotors have any kind of tilt function currently or planned, or are you recommending we use infernal robotics with them?

I recommend Infernal Robotics, the engine is just the stack engine part, intakes and nacelle sold separately. : D



Quote



[Eskandare Heavy Industries](#)

- [Check out my mods](#)

Helping with [KerbinSide - New Bases For Planet Kerbin](#)

evileye.x

Dreaming of Space



Posted July 1, 2016

Report post

So no tilting/gimballing for pitch/yaw control? We have to rely on reaction wheel for that?



Members

+ 210

448 posts



Quote



[The best KSP videos. Ever.](#)



Eskandare

Eskandare Heavy Industries



Members

+ 1,102

1,314 posts

Location: Sitting in my chair.

Posted July 1, 2016

Report post



On 7/1/2016 at 8:55 AM, evileye.x said:



So no tilting/gimballing for pitch/yaw control? We have to rely on reaction wheel for that?

I was going to put a gimbal in but wasn't sure on the behavior, I'll probably add that next update, and the rotor has a reaction wheel representing the nature of a rotor's gyroscopic rigidity in space.



Quote



[Eskandare Heavy Industries](#)
- [Check out my mods](#)



Helping with [KerbinSide - New Bases For Planet Kerbin](#)

StevieC

Resident Slacker



Members

+ 183

649 posts

Location: 42° 56' N, 85° 38' W

Posted July 1, 2016 (edited)

Report post



are these rotors hingeless, or articulated? (articulated rotors have hinges to let each blade swing up and down which makes it unsafe to perform zero-G aerobatics if the rotor is articulated)

Edited July 1, 2016 by StevieC



Quote



"How hard can it be?!" - Jeremy Clarkson



"That's not gone well!" - also Jeremy Clarkson, about ten minutes later

martinezfg11

Kerbal Atmosphere Program



Members

+ 317

470 posts

Posted July 1, 2016

Report post

On 7/1/2016 at 1:22 PM, Eskandare said:

I was going to put a gimbal in but wasn't sure on the behavior, I'll probably add that next update, and the rotor has a reaction wheel representing the nature of a rotor's gyroscopic rigidity in space.

I'm not sure if gimbaling would produce accurate rotor behaviour, I would think that the thrust vector should move along the rotor disk depending on "cyclic" input. Then again this may not be possible without a custom plugin. I'm not sure how firespitter makes rotors behave, because I know that cyclic position is shown in rotors.



Quote



[AoA Tech - Aviation Parts](#) | [IVA Everything](#)



Eskandare

Eskandare Heavy Industries



Members

+ 1,102

1,314 posts

Location: Sitting in my chair.

Posted July 1, 2016

Report post

Well... because it is KSP, they'll behave like rigid rotor masts, as apposed to the articulated rotor mast.

On 7/1/2016 at 1:33 PM, martinezfg11 said:

I'm not sure if gimbaling would produce accurate rotor behaviour, I would think that the thrust vector should move along the rotor disk depending on "cyclic" input. Then again this may not be possible

without a custom plugin. I'm not sure how firespitter makes rotors behave, because I know that cyclic position is shown in rotors.

Some components of firespitter are "broken" so unfortunately that won't be happening soon. I figure putting a 2 to 4 degree gimbal will be as close as we can get right now.



Quote



Eskandare Heavy Industries

- [Check out my mods](#)



Helping with [KerbinSide - New Bases For Planet Kerbin](#)

Kottabos

Rocketeer



Members

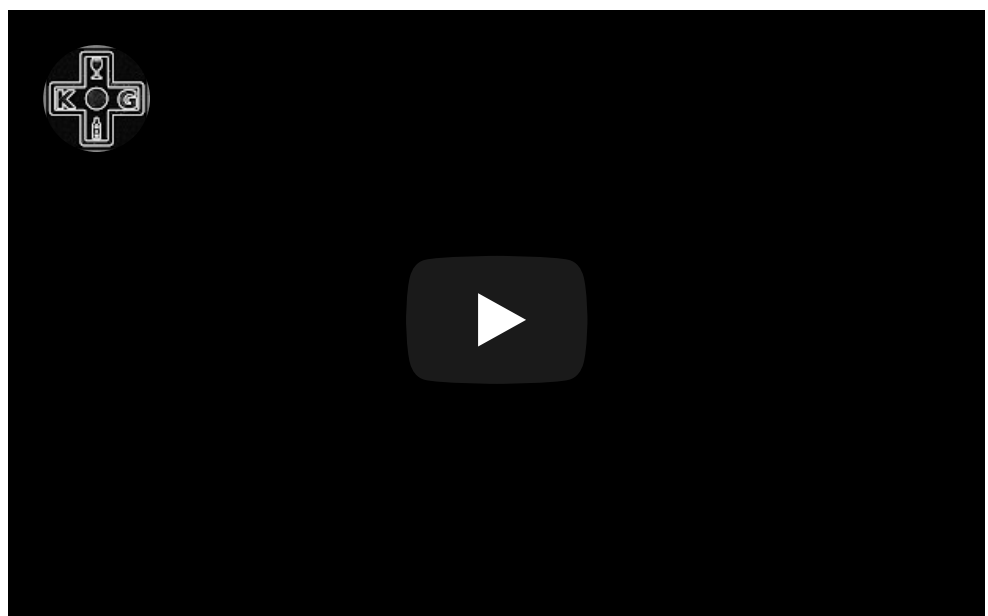
+ 69

53 posts

Posted July 1, 2016

Report post

Just posted a spotlight of this mod on my channel, and I gotta say I really love the work you've done here. great models, animation, sound design and on top of all that I can actually fly with these parts unlike other helicopter parts I've tried lol. I can't wait to see how this mod moves forward.





Quote

ThiccRocketScientist, Pappystein, colmo and 4 others

like this



My Youtube Channel:

<http://www.youtube.com/KottabosGames>



StevieC

Resident Slacker



Members

+ 183

649 posts

Location: 42° 56' N, 85° 38' W

Posted July 1, 2016

Report post



On 7/1/2016 at 1:33 PM, Eskandare said:



Well... because it is KSP, they'll behave like rigid rotor masts, as apposed to the articulated rotor mast.

Good. I actually prefer rigid-rotors (even though calling them 'rigid' is a misnomer, they're properly called hingeless, since they rely on allowing the blades themselves to flex in order to serve the same function that the led/lag and flapping hinges fulfill on an articulated rotor-head) because they allow a rotorcraft to reach higher airspeeds and are more responsive to control-inputs.



Quote



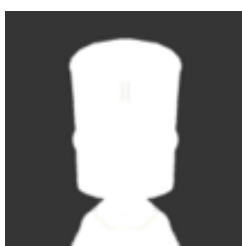
"How hard can it be?!" - Jeremy Clarkson



"That's not gone well!" - also Jeremy Clarkson, about ten minutes later

drhay53

Bottle Rocketeer



Members

+ 204

402 posts

Posted July 1, 2016

Report post



awesome! always wanted more rotors in KAX.



Quote



BigNose

Sr. Spacecraft Engineer



Members

+ 122

361 posts

Posted July 1, 2016

Report post

Ohhh interesting, going to follow this for sure! 🤖



Quote



Lemons are love, lemons are life.



theonegalen

Senior IVA Designer



Members

+ 871

1,499 posts

Location: Houston area

Posted July 1, 2016 (edited)

Report post

Oh *this* is what you've been working on!

Between AirplanePlus and this mod, the venerable KAX and her NRE spam may not be needed at all anymore. 🤖

Edited July 1, 2016 by theonegalen



Quote



Musician, Teacher, Science Enthusiast, Nerd, Christian

Working on custom ASET IVAs for stock and mod cockpits:

[Warbird Cockpits!](#)

Current WIP: Stock Mk1Inline (F-15A), Mk2Inline (Blackbird/Retro), and Mk1Pod (Mercury) cockpit,

maranble14

Rocketry Enthusiast



Members

+ 18

64 posts

Posted July 1, 2016

Report post

Now we just need an implementation to allow crafts to hover.



Quote

SpaceBadger007 likes this



Geschosskopf

Director of Shanghaing
Operations



Members

+ 5,903

6,885 posts

Location: Lousy Anna's armpit

Posted July 1, 2016

Report post

Oh cool. I'll have to give these a try with Throttle-Controlled Avionics (which is the only way I can fly helicopters 🤖)



Quote



-Geschosskopf -- NIHIL INIQVIVS QVAM ÆQVITATEM
NIMIS INTENDERE

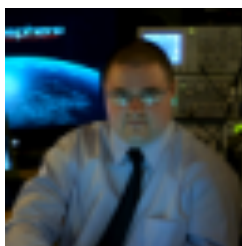


I am a Kerbero

[Tutorial on Flotillas](#) -- [Paydirt! A Tutorial on Finding the Best](#)
[Open - Tutorial on Communications Networks in 1.0](#)

AdmiralTigerclaw

Sr. Spacecraft Engineer



Members

+ 261

740 posts

Posted July 1, 2016

Report post

@Eskandare

Have you taken a look at the 'experimental' tweakable rotors that come with Firespitter at all?

I've been considering using them as a base template to create a rotor mod of my own centered around rotors powered by separate turbine engines instead of building the 'engine' into them.

What makes it more interesting is that the rotors utilize some kind of alternate 'power' production and consumption module that actually affects their RPMs. If I can split that out and make turbines, it would make helicopters more interesting to build.

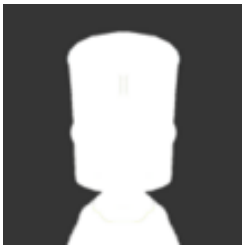


Quote



StevieC

Resident Slacker



Members

+ 183

649 posts

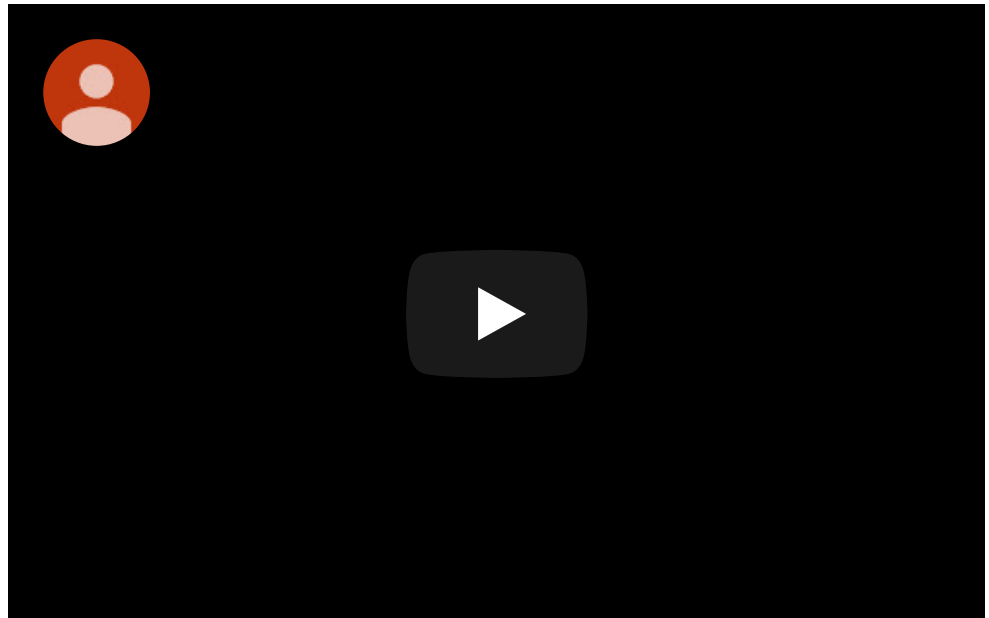
Location: 42° 56' N, 85° 38' W

Posted July 2, 2016 (edited)

Report post

Surprised nobody is challenging/disputing my claim that hingeless rotors are superior to articulated, as making that claim on other fora has sometimes accidentally triggered flame-wars.

Here's part of why I assert that hingeless rotors are superior.



Edited July 2, 2016 by StevieC



Quote

Raptor9 likes this

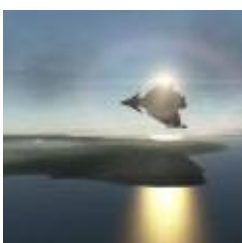


"How hard can it be?!" - Jeremy Clarkson

"That's not gone well!" - also Jeremy Clarkson, about ten minutes later

colmo

Modder's muse



Members

+ 140

Posted July 2, 2016

Report post



On 7/1/2016 at 5:51 PM, maranble14 said:

Now we just need an implementation to allow crafts to hover.

I thought Firespitter still had this capability, and so any rotor using it also could?

1,161 posts

[@Eskandare](#), thank you for providing these toys for the most Kerbal of all aircraft.

Here's a chopper I flew to KSC2 back in 0.15 - the Heron is the spiritual successor of the Damned Aerospace coaxial rotor:



Quote



[First helicopter to KSC2](#) | [KSP gallery \(Google\)](#) | [KSP gallery \(Steam\)](#) | [KSP legacy craft](#)

[Discussion thread - BD Armory dogfighters AI tournaments](#)

Eskandare

Eskandare Heavy Industries



Members

+ 1,102

1,314 posts

Location: Sitting in my chair.

Posted July 2, 2016

Report post

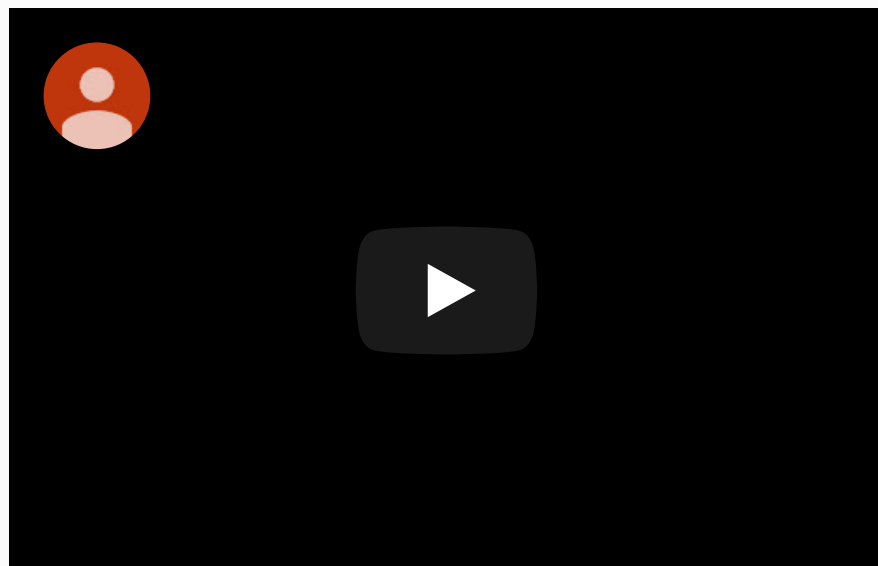


On 7/2/2016 at 1:44 AM, StevieC said:



Surprised nobody is challenging/disputing my claim that hingeless rotors are superior to articulated, as making that claim on other fora has sometimes accidentally triggered flame-wars.

Here's part of why I assert that hingeless rotors are superior.



The only problem with rigid rotor masts is that once the blades slightly damaged or times out in accordance with the maintenance manual, the whole rotor head must be

replaced, as it is one single piece this can be very expensive. Otherwise, they are great. As I understand, it doesn't have lead or lag like the fully articulated, instead it flexes.

On 7/1/2016 at 1:50 PM, StevieC said:

Good. I actually prefer rigid-rotors (even though calling them 'rigid' is a misnomer, they're properly called hingeless, since they rely on allowing the blades themselves to flex in order to serve the same function that the lead/lag and flapping hinges fulfill on an articulated rotor-head) because they allow a rotorcraft to reach higher airspeeds and are more responsive to control-inputs.

Teetering hinge, fully articulated, semi rigid, and rigid are the terms used in the industry. I'm a certificated airframe and power plant mechanic with specialization in rotary wing.

On 7/2/2016 at 5:54 AM, colmo said:

I thought Firespitter still had this capability, and so any rotor using it also could?

@Eskandare, thank you for providing these toys for the most Kerbal of all aircraft.

Here's a chopper I flew to KSC2 back in 0.15 - the Heron is the spiritual successor of the Damned Aerospace coaxial rotor:



That it is. I miss that rotor. I had to make my own.



Quote

theonegalen, colmo and Raptor9 like this



Eskandare Heavy Industries




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