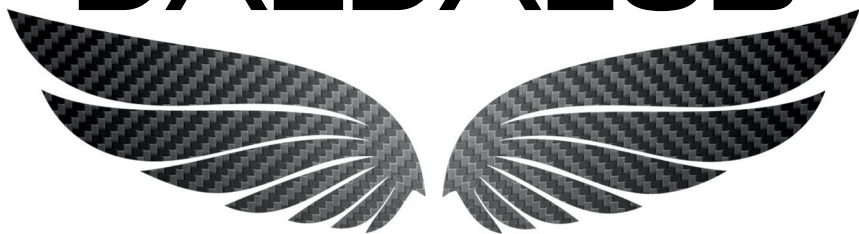
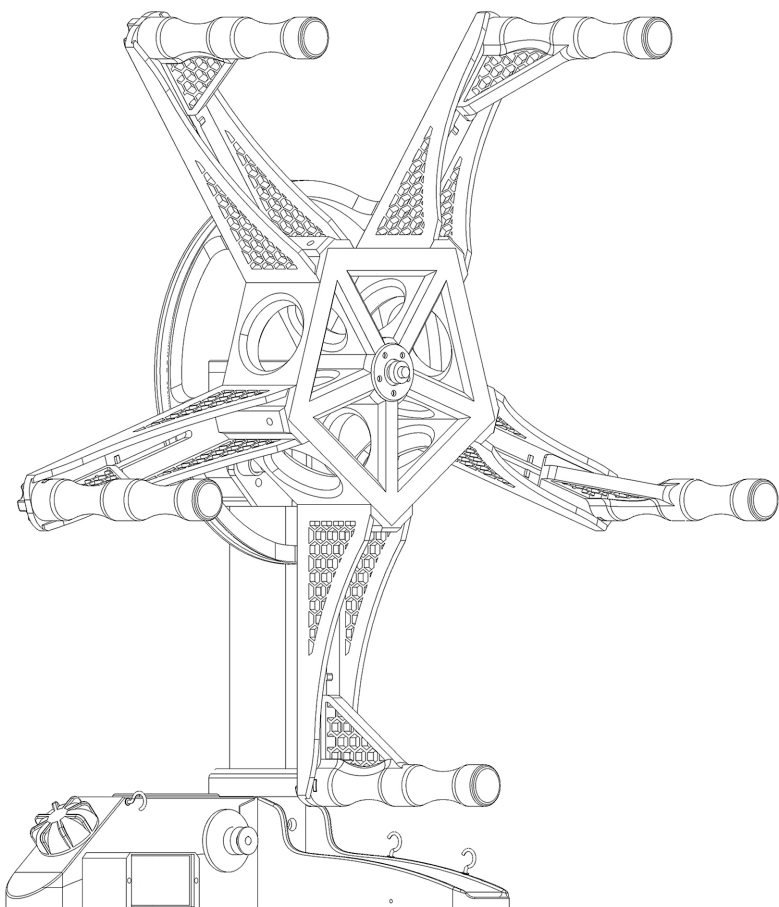


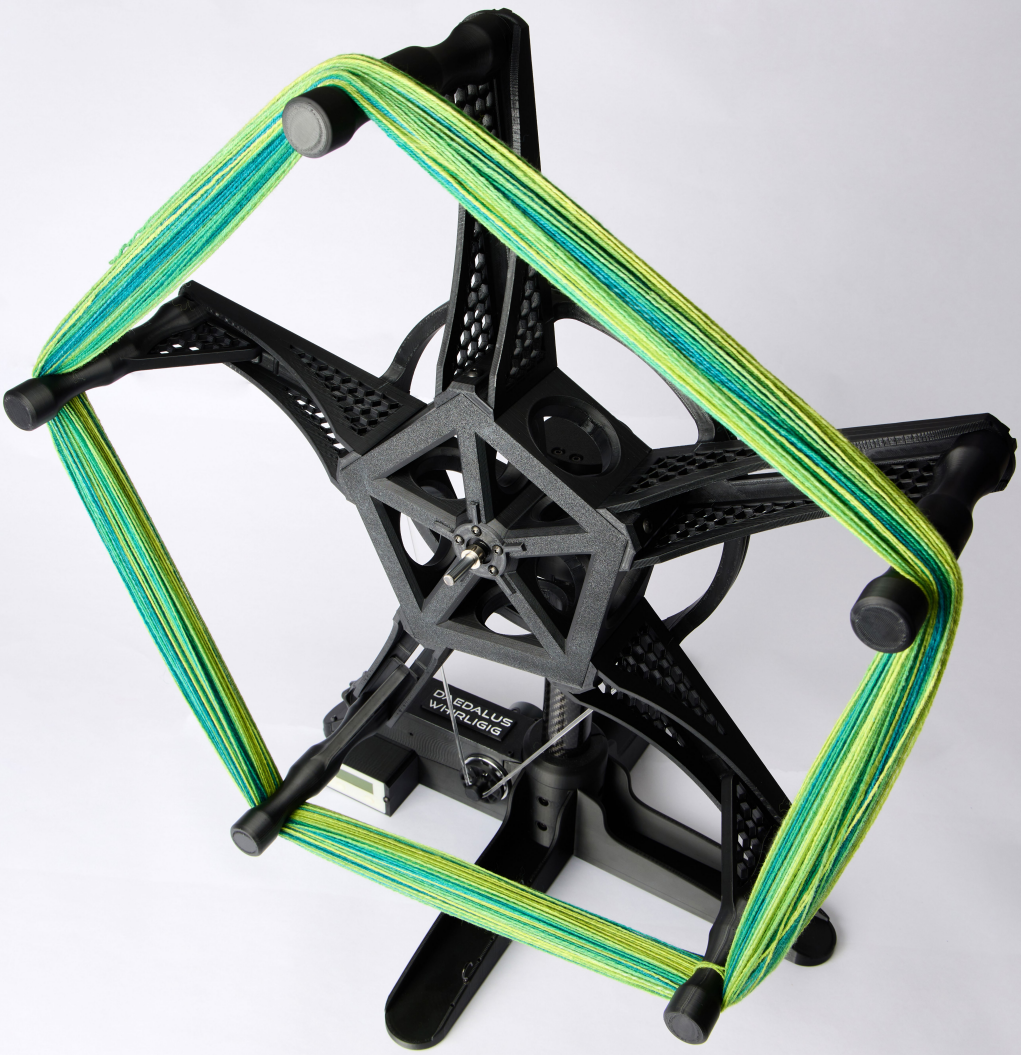
DAEDALUS



SPINNING WHEELS



WHIRLIGIG



WELCOME TO THE FLOCK!

Congratulations on purchasing the Daedalus Whirligig, and welcome to the Flock. We at Daedalus couldn't be more thrilled that you decided to trust us with your fiber tool purchase. The Whirligig was designed as an electric two-skein winder that doubles as a swift with an electric counter. Whirligig is smooth and silent and pairs well with the Roly-Poly electric ball winder. Should you need any assistance in the future with your winder, please do not hesitate to contact us at support@daedalusspinningwheels.com.



WHIRLIGIG READY FOR ASSEMBLY

Wall Power Supply 15V 5 amp, (10) M5x16 Bolts, (5) Arms



Feel free to use your own tools if they are more comfortable for you, but please do not use electric tools. We recommend assembling in a well lit room, and extra light may be beneficial.

(5) Arm Posts, Top Plate



(5) Arm Post Knobs, Axle, (10) M3x30, (5) Whorl Pieces



Rear Axle Spacer
Front Axle Spacer
Lock Ring/Grub Screw



Rubber Feet



3 mm, 2.5 mm, and 2 mm Allen Wrenches, Drive Belt, Tension Belt, Main Leg Assembly



STEP 1 - LEGS

HARDWARE

- (3) M4x8 Bolts
- (3) M5x16 Bolts
- (4) Rubber Feet

3D PRINTED PARTS

- (3) Legs
- Main Leg Assembly

TOOLS

- 2.5 mm Allen Wrench
- 3 mm Allen Wrench

INSTRUCTIONS



Install **Rubber Feet** onto three **Legs** and **Main Leg**.



With the **Main Leg** upside down, place one of the **Legs** next to the **Main Leg** already installed.



Using (1) **M5x16 Bolt** and the **3 mm Allen Wrench**, screw the bottom of the leg to the Main Leg post. Some creaking may occur.



Attach the other two **Legs** in the same manner with the other (2) **M5x16 Bolts**. Bolts should be recessed when tightened.



Once all **Legs** are attached to the bottom, go ahead and return the assembly to the upright position to finish securing the legs from the sides.



Using (1) **M4x8** and the **2.5 mm Allen Wrench**, finish securing each leg into the side holes. If experiencing difficulties threading this bolt, ensure you have screwed the bottom bolts in completely.

STEP 2 - HOOKS

HARDWARE

- (4) 3/4" Cup Hooks

INSTRUCTIONS



On the **Front Leg**, screw in (2) **Hooks**—in the 2nd and 6th holes. These hooks act as yarn guides while skeining with the opening facing toward the center post. Screw (1) **Hook** onto both the **Main Leg and Right Leg**. These hooks will act as tensioning when using the Whirligig as a Swift. Make sure the tension hooks are horizontal, facing away from the center post.



STEP 3 - INSERT AXLE

HARDWARE

- Axle

TOOLS

- 3 mm Allen Wrench

INSTRUCTIONS



Insert **Axle** into the hole in the side of the **Top Plate**. Use your hands to apply even force from both sides to ensure the **Axle** goes in all the way.



Tighten the (4) **M5x16 Bolts** by one full turn in the **Top Plate**, using a **3 mm** Allen Wrench. Tighten down enough so the Axle is secured. The Top Plate will not fit flush the the edges. Tug on the axle to ensure it doesn't move.

STEP 4 - ASSEMBLE HEAD

HARDWARE

- (5) M5x16 Bolts
- (10) M3x30 Bolts

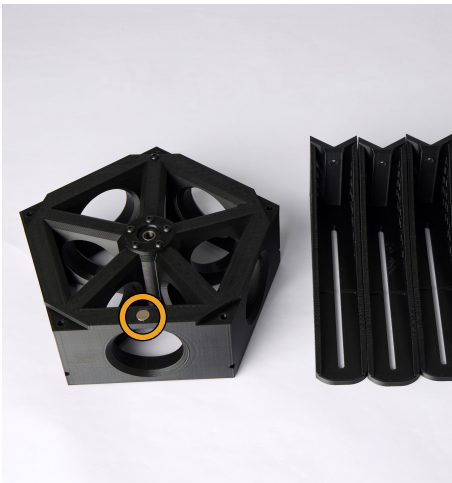
3D PRINTED PARTS

- (5) Arms
- (5) Whorl Pieces

TOOLS

- 2.5 mm Allen Wrench
- 3 mm Allen Wrench

INSTRUCTIONS



Place **Hub** on surface, with **Sensor Magnet** side up.



Place an **Arm** on the **Hub**. Using (1) **M5x16 Bolt** and the **3mm** Allen Wrench, secure the Arm to the back of the Hub.



Using (4) **M5x16 Bolt** and the **3 mm** Allen Wrench, attach the other (4) **Arms**. A small amount of creaking should be expected.



Pick up a **Whorl Piece** and place **M3x30 Bolts** in both holes. Using your fingers, screw the bolts through the piece far enough that they peek out the other end of the hole.



Line up the ends of the **Bolts** on the **Whorl Piece** to holes on the arms at the back of the **Hub**, then screw into place with **2.5 mm** Allen Wrench.



Continue adding **Whorl Pieces** in a circular pattern on the Hub. You can gently use your fingers to make sure each whorl piece is fully secured.

STEP 5 - MOUNT HEAD

HARDWARE

- Lock Ring/Grub Screw

3D PRINTED PARTS

- Rear Axle Spacer
- Front Axle Spacer

TOOLS

- 2 mm Allen Wrench

INSTRUCTIONS



Place **Rear Axle Spacer** with the non-tapered end facing the **Top Plate**. Push spacer on all the way to the **Top Plate**.



Pick up the **Head** and slide it onto the **Axle** with the **Sensor Magnet** and **Whorl** side facing the **Top Plate**.



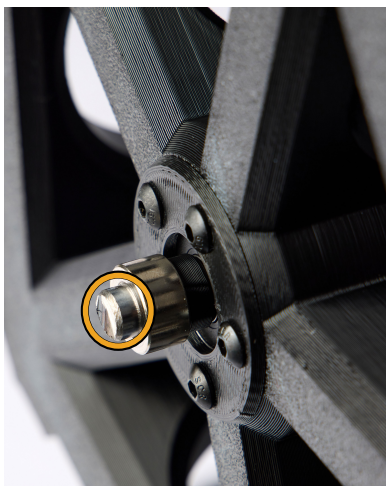
Use both hands to ensure the **Head** is pushed in all the way.



Place the **Front Axle Spacer** onto the **Axle** with the tapered side facing the **Bearing** in the **Hub**.



Place the **Lock Ring** onto the **Axle**. If it doesn't want to go on, ensure the **Grub Screw** is backed out enough. Push the Lock Ring on and secure the grub screw that's already in place using the **2 mm** Allen Wrench.



When the **Axle** has been pushed in all the way and all parts are pushed in fully, there should be about **4 mm** (a bit over 1/8") of extra axle in front. If there is more showing, then the axle is not pushed into the **Top Plate** all the way.

STEP 6 - FINISHING

HARDWARE

- (5) M5x16 Bolts

3D PRINTED PARTS

- (5) Arm Posts
- (5) Arm Post Knobs

TOOLS

- 3 mm Allen Wrench

INSTRUCTIONS



Using (5) **M5x16 Bolts** and the **3 mm** Allen Wrench, finish securing the **Arms** to the **Hub**. (There is one bolt per **Arm**.)



Screw (5) **Arm Posts** onto the ends of the **Arms** using the provided (5) **Arm Post Knobs**.



Shown: **Knob** shown at its furthest location in the Arm's slot, for making a **2-yard skein**.



To create a **1.5-yard skein**, simply loosen the **Arm Post Knobs** and slide them down onto the bump for alignment, and tighten down.



GETTING STARTED

Congratulations! You've finished assembling your new Whirligig and can use it as an Electric Skeiner or a Swift. To learn more about these two options and which one you should use, please see the following pages for more information.

Before operating, we highly recommend reading over the manual and watching our videos on how to use the Whirligig. Simply scan this QR code with your mobile device's camera or go to <https://www.youtube.com/@daedalusspinningwheels>.



SKEINER MODE



When using the Whirligig as a skeiner, install the Driveband over the Motor Pinion and around the whorl. Driveband can be draped over top and moved around the arms to be put into place OR it can be installed from underneath the legs. Make sure the speed knob is turned all the way down (counterclockwise) and then plug in the supplied power cord.



When viewed from the front, the head will spin clockwise, so your yarn source will need to be on your right in order to feed through the guide hooks on the front leg. Although there are multiple holes provided for extra hooks and more finite alignments, you should be aware that adding more hooks will add more potential places for yarn snagging when used as a swift (in the case of accidental backlash or slack in the feed).

Route the yarn through the guide hook and around an arm post. Loop it a couple times through the honeycomb, or use a piece of scotch tape to secure the end of the yarn. (The tape method has been found to provide a very seamless release during full speed finishes. If using the loop method, remove the loops if you plan on removing the yarn in swift mode later.)



Make sure the space around the Whirligig is clear, and slowly turn the speed knob clockwise to set the Whirligig in motion.



Most likely you'll be adding some skein ties in three or four places around your skein and pulling it off the arm posts. Testing showed that you can usually simply slide the yarn off without having to move an arm post to release it, especially if you move the skein over in one or two motions. If it's a huge skein and under heavy tension, feel free to loosen (turn counterclockwise when viewed from the rear) one arm post knob and slide it down the arm. Be sure to move the arm post back in place before the next skein.



With the arm posts fully extended, your skein will measure 2 yards. To create a 1.5-yard skein, simply loosen the arm post knobs and slide them halfway down the arms until they align with alignment bumps. Tighten the posts down before proceeding further.

The yarn counter can be used to precisely measure your yardage. The left button is for power, and the right button is to reset the count. Simply multiply the count result by 2 yards (or 1.5 yards). Remember to power off the Whirligig when done.

SWIFT MODE

To use Whirligig as a swift, simply remove the rubber motor drive belt. Loosen an arm post knob and slide it down the arm. Place your skein onto the arm posts, putting the first one back in place to properly hold the skein. If your skein isn't the full 2 yards, adjust all the arm posts equally to maintain perfect balance (especially important at high speeds).

When using Whirligig as a swift at very slow speeds, resistance is so low that you may need to add some artificial drag (tension). For instance, when using it with our Roly-Poly ball winder at very low speeds, unwanted slack could cause tangling. The solution is to use the supplied nylon rat tail (or your similar belt material) over Whirligig's large whorl. Please do not use Monofilament.

The two horizontal hooks (on left and right legs) are here for this purpose. Tie a loop on one end of the rat tail and affix the loop to the "taut" side hook. Drape it over the whorl and loosely loop it around the "slack" side hook. (Taut and slack sides depend on which way the swift is spinning.)





It is important that this tension belt have some amount of slack so it drapes loosely over the whorl as it does not need very much drag. If using the tension belt when slowly starting a ball on Roly-Poly, you can knock the tension belt off of Whirligig once you have reached a more moderate speed. (This is especially true once you have Roly-Poly at higher speeds, to avoid unwanted tension/overly dense balls.)

TIPS & TRICKS

- Get to know your skeiner and set up at slower to medium speeds before you venture into higher speeds.
- When skeining off a wheel, make sure the flyer is seated on the wheel properly, and remove the tension band.
- When skeining two at a time, make sure yarn sources are kept at least 3 feet apart. We also strongly advise slower speeds to ensure you can stop quickly if a tangle occurs.
- If you are only skeining one yarn, it's easiest to use the outside skeining section of the Arm Post.
- There are a variety of ways you can secure your yarn for skeining. We recommend either wrapping the yarn around the post or using tape. You can also hand rotate the head a couple times to ensure your yarn is secure when you start up the Whirligig.
- When using the Whirligig as a swift, you may find that you prefer to have the yarn coming from underneath the head or coming from above.
- When working with art yarns, it is advisable to remove the guide hooks to prevent the yarn from catching.
- After washing, some skeins shrink while others may expand. Keep this in mind as the max size of the swift is 2 yards.





COUNTER

The yarn counter can be used to precisely measure your yardage. The left button is for power, and the right button is to reset the count. Simply multiply the count result by 2 yards (or 1.5 yards). Remember to power off the Counter when done. (The counter uses a single AA battery, which is easy to change. Using supplied **2.5 mm** Allen key, remove the (2) **M4x8** bolts holding the counter in. Insert the wrench into the slot underneath, and slide the counter out. Slide the plastic battery cover off and replace the battery. Replace the battery cover, push the counter back into position, and replace the two screws.)

MAINTENANCE

As always, Whirligig was designed to be commercial grade. It will never need lubrication or any maintenance. We recommend cleaning your Whirligig on an as needed basis to remove any fuzz.

Even though no maintenance is needed for your Whirligig, should you ever need any assistance, please do not hesitate to contact us at support@daedalusspinningwheels.com.

To clean your Whirligig, please use a lint-free cloth. If needed, dampen the cloth with water only. Please do not use detergents or cleaners. Canned air is recommended for keeping crevices clean of fiber and yarn debris, but be certain to keep the can upright while spraying to avoid damaging the surface of your Whirligig.



JOIN THE FLOCK ONLINE

Facebook Group

<https://www.facebook.com/groups/239274393420200>

Discord Group

<https://discord.gg/Y2uUfDsZhQ>

YouTube & Instagram - @DaedalusSpinningWheels

Hashtags

#DaedalusSpinningWheels #DaedalusMagpie #DaedalusStarling
#StarlingV3 #DaedalusSparrow #DaedalusFalcon #SpinWithDaedalus
#MadeWithDaedalus #TeamDaedalus #DaedalusWhirligig

CONTACT DAEDALUS

Website - <https://www.daedalusspinningwheels.com/>

FAQ - <https://www.daedalusspinningwheels.com/faq>

Shop - <https://shop.daedalusspinningwheels.com/>

Email - Support@daedalusspinningwheels.com

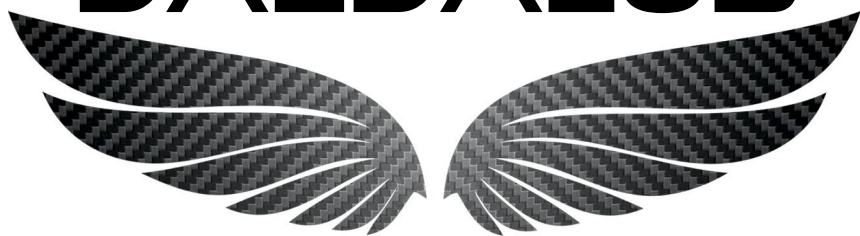
SAFETY NOTES & DISCLAIMER

Whirligig is capable of high-energy speeds. For maximum safety, please keep your winder unplugged from power when not in use. Use away from children and pets.

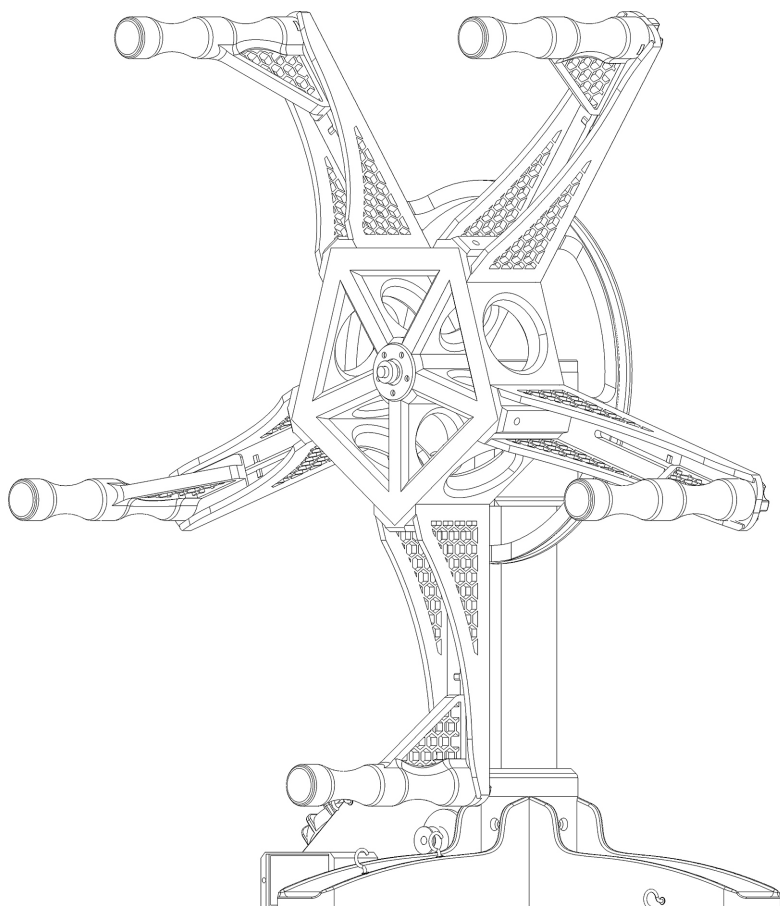
All tools made by Daedalus Spinning Wheels use 15V power supplies. Using anything other than 15V can be harmful to your machine and void your warranty. When using a battery, please ensure it is set to 15V.

Daedalus Spinning Wheels LLC and Spotted Ewe Fibers LLC will not be held liable for any damages incurred to persons or property due to the use of non-approved third-party manufactured components on our products. Doing so will void your warranty. Please email us with any questions regarding modifications or third-party equipment.

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SPINNING WHEELS



WHIRLIGIG