Vortex Serving Spinner

Instructions and guidance for use

The Vortex serving spinner is a device to work specifically with the Beiter Serving Winder to allow serving your string to be drill operated. This produces a far more efficient process than hand serving, reducing serving time up to 10 times and the even rotational momentum gives a more consistent wrap around the string.

The Vortex spinner comes assembled and ready to go. In the box is the CNC machined wooden spinner and the drill attachment wheel that will fit into a 13mm (½") chuck battery operated drill. We recommend up to 1700rpm maximum variable speed drill.

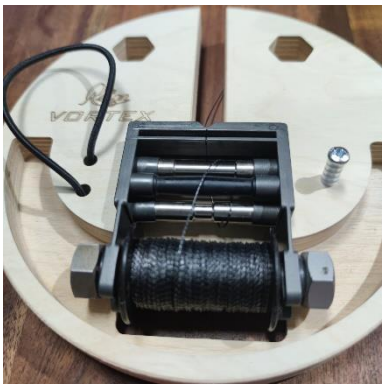
Do not use a mains operated drill with this device.

Fitting the Drill Attachment Wheel

The drill attachment wheel comes with an M8 screw, tightened with a nylon locking nut. Insert the exposed M8 thread into the drill chuck and tighten the chuck **ensure that the attachment is tightly secured in the drill before operating**. A test of the drill will show you if the attachment is installed straight.

How the Beiter Winder fits in the Vortex Spinner

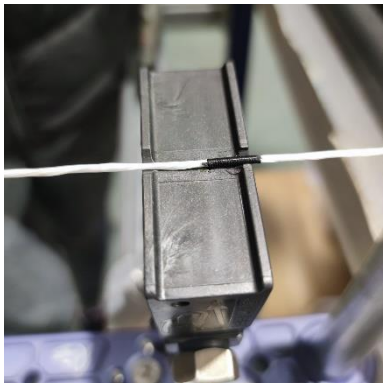
The Vortex Spinner is CNC machined to fit the exact shape of the Beiter winder. Depending on tolerances of manufacture, this may be a slightly tight fit at first but will loosen up naturally with use. The Beiter Winder into the Vortex Spinner as illustrated below.



The correct orientation is to install onto the Winder from the trailing side (left side for left to right serving, right side for right to left serving) and with the exit hole of the serving on the winder nearest to the spinner.

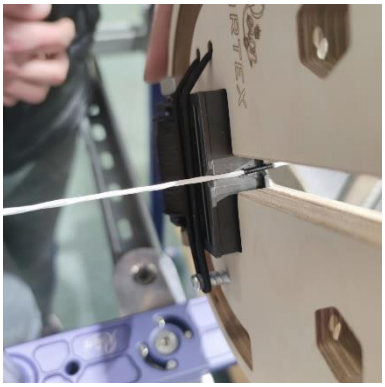
The elastic retaining cord fits over the winder and onto the post on the opposite side to ensure that the winder and spinner cannot separate during operation. **Do not operate the device without the retaining cord fitted.**

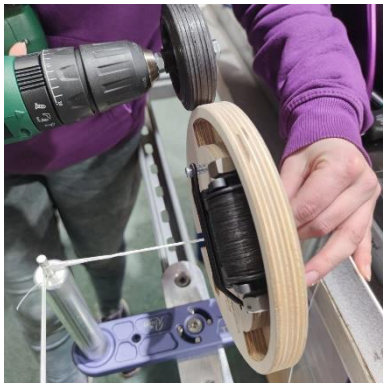
Using the Vortex Spinner



Firstly, start your serving by hand as normal without the spinner attached.

Attach the spinner to the jig by feeding through the open slot and fitting into the serving jig cut out. Make sure to fit the retaining cord.

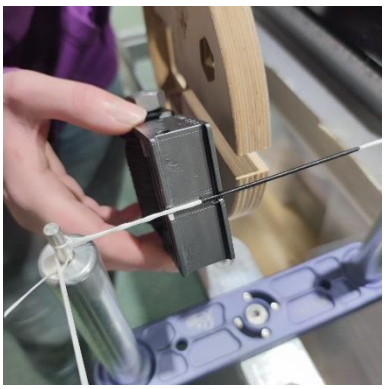




Using the drill attachment wheel, operate the spinner until you reach the desired location.

As a tip, imagine the spinner like riding a bike; the slower you operate it, the less control you have. The drill attachment wheel will increase the speed of rotation of the spinner more with additional pressure. We find that applying a small degree of hand rotation of the spinner and applying the drill attachment wheel whilst activated in a steady increase of contact is the most efficient way of operating.

Once you have reached your desired location, remove the retaining cord, detach the spinner from the serving jig and slide off the string.



Weight Distribution Cutouts

The Vortex Serving Spinner has 2 machined hexagonal cutouts to act as a weight distribution system.

Use of the Beiter Winder Heavy model and/or aluminium/brass serving spools can add additional weight to the bottom and cause excess 'bounce' of the spinner as it spins around the string. These cutouts are machined to accommodate both the 9mm and 15mm stainless steel Beiter knobs which can be screwed in to even the distribution of weight and eliminate bounce. These are available as an optional extra.

Troubleshooting

In 99% of cases, if you've followed the instructions, the Vortex Serving Spinner will operate without any issues at all. These guides are for any problems you may experience

Spinner has horizontal wobble when spinning	Ensure the Beiter Winder is set with the serving exit slot towards the spinner.
Spinner has 'bounce' when spinning	String material is wound around the jig too loose, pinching or pushing on the string to remove slack may help
	The weight distribution of the Winder in the spinner may need compensating, refer to "Weight Distribution Cutouts" section
Beiter Winder and Spinner jump off the string when spinning	Serving tension on the winder is too loose, increase the serving tension
	Spinner is being operated too fast for the serving tension, slow the drill down or decrease contact pressure between the drill attachment wheel and the spinner
Drill attachment wheel has uneven spin	Ensure the wheel is correctly installed into drill chuck
	Loosen nylon locking screw holding the wheel on the thread and then retighten it to centralise

Warranty and Disclaimer

The Vortex Serving Spinner assembly is guaranteed against defects in workmanship for 1 year from purchase date. As a CNC Machined Beech Ply material, cosmetic imperfections may naturally occur and are somewhat unavoidable. All Vortex Serving Spinners are checked to ensure that no cosmetic imperfections affect the usability of the product and as such, are not warranted. Breakage of the spinner due to misuse, dropping or any other action outside it's normal use is not warranted.

Common sense safety measures should be adhered to, The Vortex Serving Spinner will operate at approx. 600RPM based on a 1600rpm drill. Ensure that hands and clothing do not come into contact with the spinner or drill attachment during use. Never operate without the elastic retaining cord fitted. Never operate without the drill attachment wheel secured correctly to the drill. No responsibility will be taken for any injury or damage caused through use or misuse of this product whatsoever.