

Majacraft Aura Mechanics

Description of Aura Tensioning

How to use the tensioning system on your new Majacraft Aura.

Because this wheel has a different tensioning system with a huge amount of options, it requires a rethink about how to tension for spinning. There are two words that will help it all make sense: Strength and Speed.

Strength refers to the "Strength of the Pull"

Speed refers to the "Speed of the Pull"

Strength

The Strength of the Pull is determined by the tension adjust knob on the side of the head. If the tension adjust is screwed right in and the bobbin (white) drive band is loose, the pull is very soft to no pull at all. If the tension adjust is screwed right out and the bobbin drive band is tight, the pull is very hard and quite simply 'there ain't no way you are going to stop it'.

A **strong pull** is needed when making a yarn that is very shaggy (boa-like tailspun), has big add-in's or any other high-drag texture. The strong pull will tug these elements around corners and through guides so you don't need to hand-wind the bobbin. At the same time, if your speed is slow, it allows you to get enough twist to keep it all together.

A **soft pull** is good for yarns or sections in your yarn when there is very little texture to give resistance or drag.

Speed

The Speed of the Pull is determined by the difference in size between the groove the bobbin (white) drive band is in and the groove the flyer (green) drive band is in. If they are very similar size then the yarn will pull in slowly. If they are very different then the yarn will pull in quickly.

From here you can think about what you would like to achieve as the Aura will allow you to produce similar effects in different ways.

A **fast pull** is handy when making extreme novelty yarns that need little twist or have sections that don't, or when spinning long fibres that may not need a lot of twist, such as silk.

A **slow pull** comes in handy when "building a yarn", such as when you stop, add things in, or create a specific effect in an isolated spot and you need time to do it without the yarn getting yanked out of your hand. Slow pull is also good for light and fluffy yarns such as mohair or boucle where you want to spin slow and create textures as well as add twist. Lace-weight yarns require a slow pull too.

Mix and Match!

The best way to open the creative doorways with this wheel is to experiment. Try a strong-pull with a slow speed, for example, and be amazed at the super chunky shaggy yarns that it will make with ease! Want a super thin silk yarn with beads? Try a fast pull with medium-soft strength. The possibilities are endless! All it takes is a little bit of experimenting to find the proper combination to suit your specific fibres and ideas.

Examples

Adding a lot of twist to a yarn

Solution 1

Strength=STRONG

Speed=SLOW

The yarn will pull in strongly and relentlessly and slowly so there is plenty of time to get twist in the yarn.

This will help you to have a very consistent yarn because the Aura will keep on pulling at the same speed.

Solution 2

Strength=STRONG

Strength=WEAK

Speed=FAST

The yarn will pull in weakly so you can hold it back as you wish and even though the Speed is fast, the yarn can be held back.

This solution would be good for fine yarns as the flyer will be spinning fast and because the Strength is weak, you can hold the yarn to put as much twist in as you wish.

How to Adjust Aura Tensioning

Start by taking off the green drive belt.

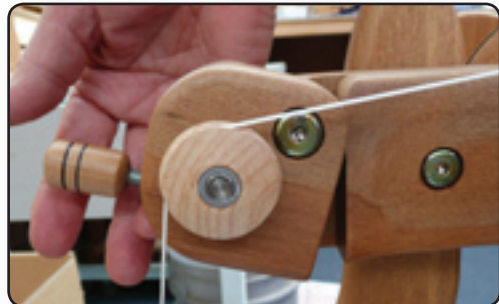
Turn the tension adjust knob at the side of the spinning head until it is about half full tension.



Loosen the jcb bolt from behind the spinning head. Move the head up in the slot until the white Dacron belt is tight and then, using the 4mm allen key provided, and working from the rear, tighten the head into position. This will be approximately at the central location in the slot.

Replace the drive belt on to the groove that is most suitable for your purpose. It is the juxtaposition of the belts that give you greater or lesser speed of pull.

Now you can turn the tension adjust knob inward or outward to create the strength of pull that you require.



For everyday spinning of sportweight yarn, use a medium pull and a slow pull.

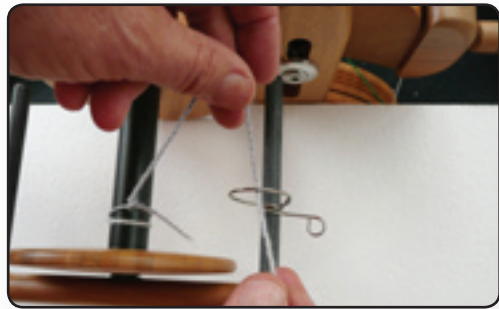
For making lace weight yarn, use a weak pull and a slow pull.

For bulky yarns, use a strong pull and a fast pull.

We will make short video clips and other useful information available on our website from time to time.

How to Thread the Aura Flyer

Pass the yarn through the large flyer hook on the flyer arm.



In an anti clockwise direction, take it through the guide at the side of the flyer.

If you are spinning fine yarn then take the yarn over the orifice close to the flyer bar, so it sits in the v shaped angle, underneath, up between the v and the circular part. Take the yarn in an anti clockwise direction and fit it through the circular front part.



If you are spinning yarns with add-ins or very bulky yarns, just miss the v shaped part of the orifice and take it straight through the circular front part.

