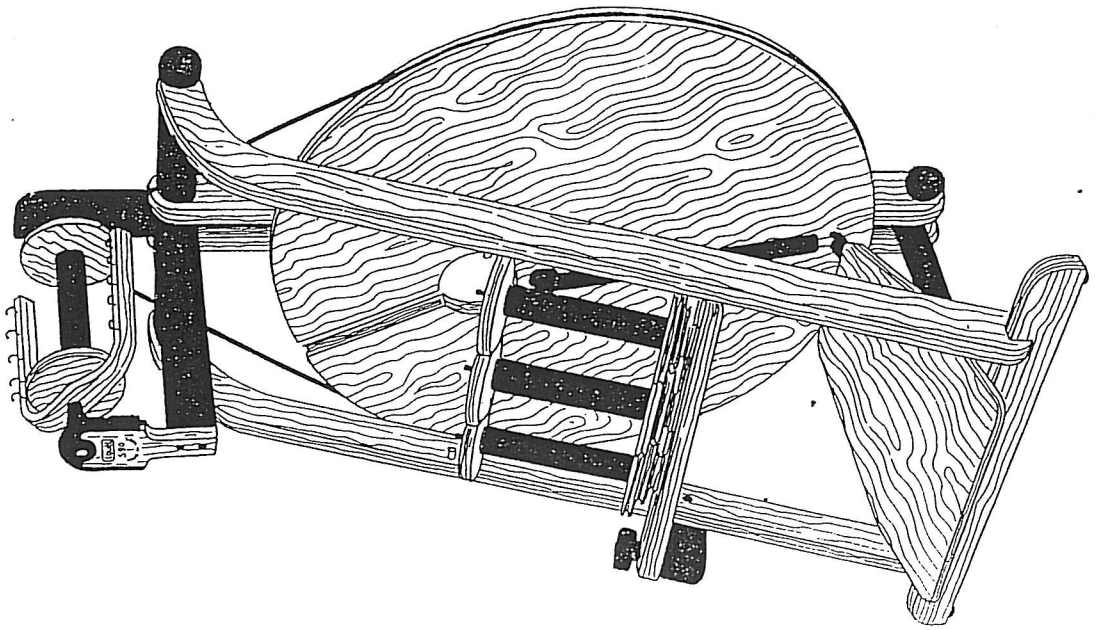
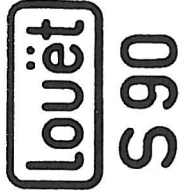


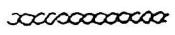
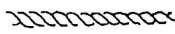
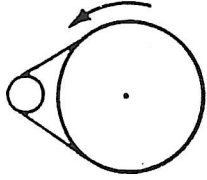
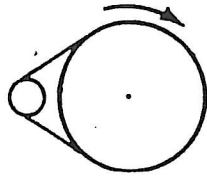
The spinning wheel for the nineties



This design combines all the desirable features that the ideal spinning wheel should have

Instructions spinning with wool

Practice treadling, e.g. while reading a book, until your feet work automatically.



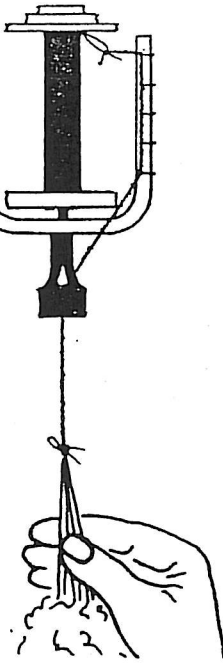
Spinning : Twisting the wool fibres to make a single yarn.

Plying : Twisting 2 or more single yarns together.

Spinning ratios :
 large sheave : 6:1
 middle sheave : 8,5:1
 small sheave : 12,5:1

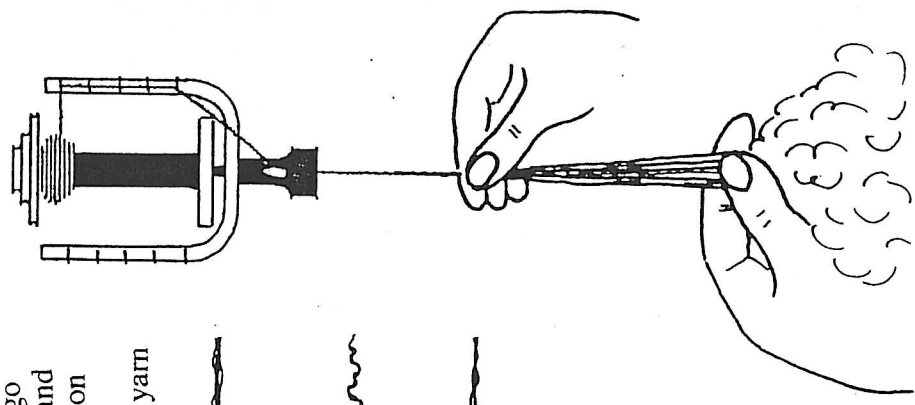
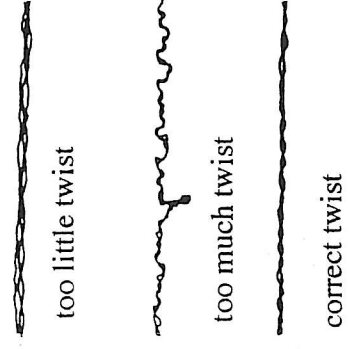


Start with a piece of yarn (aprox. 1m - 1 yard). Twist with your fingers a rough yarn out of the wool and knot it to the start yarn.

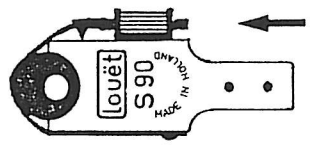


Start with low speed (large sheave of the bobbin) For spinning the wheel turns clockwise. Take the wool loose in your left hand. Pull a bit of wool out of your left hand with the fingers of your right hand in the direction of the orifice, so far as the thickness of the yarn requires Then while treadling slowly and still gripping the yarn move your right hand back towards your left and allow the twist to develop.

Then you can let it go through the orifice and it will be wound up on the bobbin. Test the twist in the yarn



The twist can be corrected by the pull on the yarn.



The knurled nut of the tension strap regulates the pull on the yarn.

The flyer hooks are placed irregularly on the left and the right wing of the flyer to guarantee an evenly filled bobbin. You have to change the yarn every now and then to another hook.

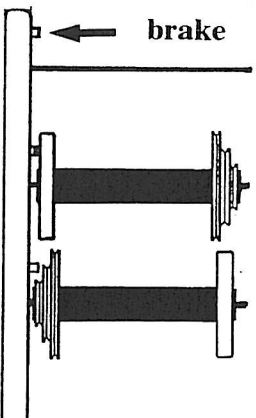
Plying :

It is easy to ply 2 or 3 threads into one thicker yarn if you place 2 or 3 full bobbins on the special bobbin holder.

Take care that the threads lie parallel in your hands before plying. (anti-clockwise)

A built-in automatic brake prevents the bobbins from "running-on" while plying.

In order to make use of this feature, place the bobbins on the lazy-kate with the sheave sides facing up.



What can go wrong

The yarn is too hard and overtwisted.

Possible causes :

1. Your hands cannot keep-up with the speed you are treading.
2. The yarn pulls-in too slowly. Adjust the brake strap a little tighter.
3. The yarn is caught on one of the flyer hooks
4. The bobbin is full.

The yarn breaks constantly.

Possible causes:

1. Too little twist, the yarn is not strong enough for winding on.
2. This can also happen if you want to make a very irregular yarn. The thinner parts need a lot of twist before they are strong enough for winding on the bobbin.
3. The yarn pulls too hard. The tension is too great and must be reduced by the tension nut.
4. Wool of bad quality (too short fibre)

Treading is very heavy.

Possible causes :

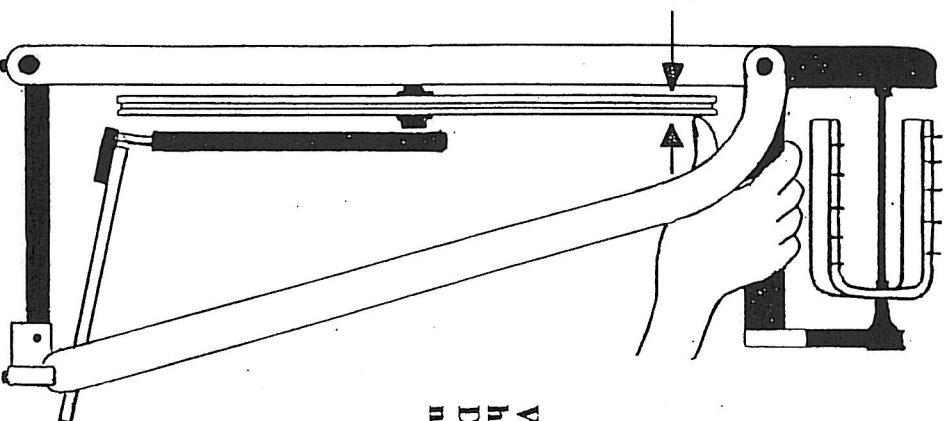
1. More brake on the flyer than you need.
2. The yarn is obstructed by one of the flyer hooks.

3. You spin thick and irregular yarn with too small a sheave. Take a larger sheave of the bobbin.
4. The bobbin is full.

In case the wheel may wobble

Aligning the drive wheel.

1. Let the drive wheel turn freely and find out with your right thumb that place where the wheel wobbles most (see diagram).
2. Push the wheel backwards at this place.
3. Repeat this action until the wheel wobbles no more than 2 mm (1/10 inch)



Wheel flatness has been tested. Deviation does not exceed 2mm.

Folding the wheel

1. Turn the lazy-kate out to the left side.

2. Turn the wheel with the hole upright.

3. Hook the drive-belt onto hooks A.

4. Turn the flyer with the hooks facing up

5. Loosen knob B and turn flyer support down into the wheel hole and frame.

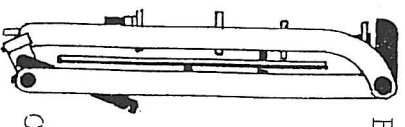
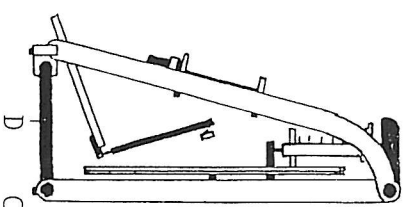
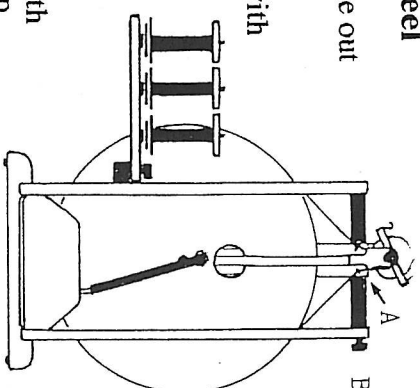
6. Pop-out the footman by turning over the ball-bearing out of the cup in the wheel and lift it up.

7. Loosen knob C and push the front towards the wheel while lifting arm D.

8. Push arm D from the back into the frame and tighten it with knob C.

9. Swing the lazy-kate back in. For unfolding the wheel, you have to reverse these directions

For unfolding the wheel, you have to reverse these directions



Maintenance

Use vaseline for lubrication on plastic bearings. All ball-bearings are sealed and don't require lubrication.