



Weft thread making machine

Mr. Prabin Kalita



Innovation Brief: Shri Prabin Kalita has innovated a wooden machine, with which yarn can be reeled efficiently for making the weft of Muga cloth. The cotton belt reduces breakage and tearing of threads while processing.

Innovation Detail: Shri Kalita had innovated this machine in the year 2006. Being an employee of sericulture research centre, he was familiar with the tools being used in the institute's workshop. However the machines available were not comfortable to the reeling machine as he had expected. He thought of developing a new machine for reeling the muga silk that resulted in the innovation of this machine. The machine innovated by him is easier to operate than those are available in the market. The machine also has much higher reeling capacity and is cost effective. The market price of this machine is Rs 17000 (Rupees seventeen thousand only).

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The idea came to his mind when he kept on operating the machines in the workshop at his work place. Using the slow and heavy tools being used in the workshop was really tiresome for him. So he thought of developing a new tool of the same kind but with

better productivity and easy to operate. Shri Kalita had to struggle for a few months for making a working machine.

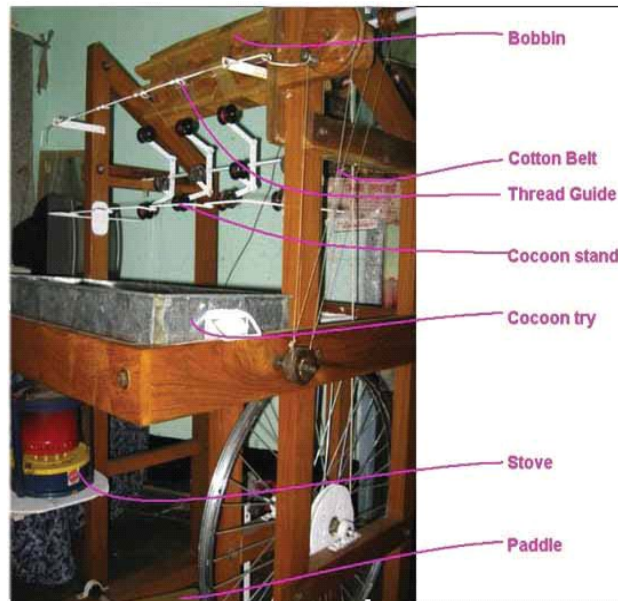


Technical aspects:

The weight of this machine is 50 Kg. It requires following parts to develop a complete set.

- (a) 50 x 50 MS angle = 30 Kg
- (b) Bicycle Ring = 1 Nos

- (c) Rubber Pipe (1/2 “) = 1 meter.
- (d) Nut and bolts (16 mm 3/4”) = 2 Kg.
- (e) Reeling Bobbin (6 “) = 1 Nos
- (f) Wooden wheel (6”) = 2 Nos
- (g) Plastic Bobbins (10”) = 4 Nos
- (h) Cocoon Tray = 1 meter
- (i) Pulley (6”) = 2 Nos
- (j) Peddle = 1 Nos
- (k) Iron Rod = 10 Kg
- (l) Screw = 1 Nos
- (m) Base Plate = 1 piece



Social / Impact / Diffusion:

The machine has been accepted to some extent in Assam. Till now he has sold 8 units in Assam.

Awardee's background:

Shri Kalita, 54 years, has studied upto class 12 and then quit his studies. He is currently associated with the Central Silk Board (CSB), based at Boko under Kamrup district, Assam. Shri Kalita is the son of Late Ananda Kalita of Mirza, Santipur Village.

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