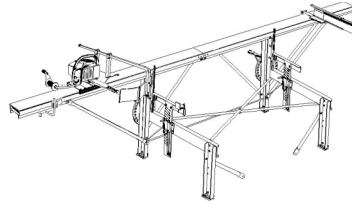


## To help you decide...



# LOGOSOL

### **HERE ARE SOME FREQUENTLY ASKED QUESTIONS ABOUT THE LOGOSOL SAWMILL.**

**Q: What is the maximum length I can saw?**

**A:** There is no limit to the size of the logs you can turn into planks with the Logosol sawmill. The standard sawmill with a 16" guide bar, handles logs up to a length of 16 feet and a diameter of 20". The sawmill can be extended to any length, as the length of the tree sets the limit. As a matter of fact, in May of 1998 in Madison MS, a plank was sawn with seven Logosol sawmills connected together. This plank measured 2X4X113ft, 4" long.

**Q: What diameter can be sawn?**

**A:** The diameter sawn depends on the length of the guide bar. Generally the diameter of the log can be 3" longer than the guide bar itself, as the slab is cut off when forming the block from which planks are sawn off.

**Q: What is the maximum log weight that can be sawn with the Logosol sawmill?**

**A:** The standard Logosol sawmill is approved by the National Machinery Testing Institute to handle logs of up to 1100 lb. When you want to saw heavier logs, you can add extra equipment to the standard sawmill and this will turn it into a reinforced version(HD).

**Q: What kind of wood can be sawn?**

**A:** All kinds, including hard wood can be sawn. It is therefore possible to obtain handicraft wood not available on the commercial market.

**Q: How do I operate the sawmill?**

**A:** The same as with other sawmills. You first produce a block from which you then saw off planks in the desired dimension.

**Q: Should I take logs from the ground?**

**A:** Of course you can place the logs on the ground in front of the sawmill, but that is not a very good idea as soil and sand easily get stuck in the bark. Besides, the logs become difficult to roll and lift and your working position becomes inconvenient and uncomfortable. We recommend instead that you build a ramp in front of the sawmill that makes it easier to load the logs on the sawmill. The easiest way of constructing a loading ramp is to place four logs in a square. This will give you a comfortable working position and you will be able to move the log without too much effort when sawing. Most lifts are actually made while turning the log during the sawing.

**Q: How do I adjust the dimensions?**

**A:** Set both supports to the same height. The distance between the two diagonally adjacent holes is 1/4". This is also the minimum thickness that can be sawn. The distance between two vertically adjacent holes is 1". Raise both log supports to the desired thickness and make the cut. Proceed in the same way with the other cuts.

**Q: Isn't it better to buy lumber already cut?**

**A:** If you think it is worth the money and if you are satisfied with the quality, then of course, it is more convenient. However, with the Logosol, you can cut lumber that if you could find that quality of cut at the lumber yard, it would cost you much more than what you normally would pay.

**Q: How long does it take to learn how to operate the Logosol sawmill?**

**A:** "It takes just minutes to learn, but a lifetime to master." Already, at your first try you will produce planks and lumber of high quality.

To learn how to get the most out of the log may take years. It depends on your

own experience and how much you use the equipment.

**Q: Can I use the sawmill for anything else?**

**A:** The Logosol sawmill is very flexible, and can cut a log in many different ways. One example is to produce signs. This is done by lowering one of the log shelves and cut off the plank.

There are different attachments for the Logosol sawmill. With the timbering attachment you produce round timber that can be used for a log cabin. Or you can extend and upgrade the sawmill for extremely long or thick logs.

**Q: How is the log secured?**

**A:** When you begin to cut the chain pulls the log towards the log fence in front of the guide rail. In that way the log is automatically secured. Furthermore, the log is secured by a spiked bumper (dog) in one end and by the two limit stops on the log shelves.

**Q: How safe is the sawmill?**

**A:** The Logosol sawmill is European Certificate approved(CE). It has been inspected by the Swedish Board for Occupational Safety and Health(SBOSH) and is approved for professional use. The National Machinery Testing Institute report states: "In our opinion sawing with this type of sawmill is less dangerous than, for example, with circular saw"

**Q: Doesn't circular or band saw perform better?**

**A:** The final result with the Logosol sawmill is as good as with any other saw. The advantage with the Logosol sawmill is that laths, boards, planks and beams can all be produced even in dimensions which are not commercially available. The largest part of handling the lumber is transporting it to and from a mill -

now you can save time by sawing it yourself.

**Q: What problems am I likely to encounter?**

**A:** You may run into problems if there are tensions in the wood, regardless of what sawmill you use. The solution is to cut the log into short trunks or turn the block a quarter of a turn for each cut, thus gradually releasing the tension.

**Q: What is the capacity of the Logosol sawmill?**

**A:** Logosol owners report that they saw between 800 - 1300 board feet ready made lumber per 8-hour shift. The output depends on what saw you use and how well the work is planned in advance. It takes about 20 minutes to cut a normal log. The National Machinery Testing Institute has come to the same conclusion.

**Q: Does the mill produce much waste?**

**A:** The kerf of 1/4 inch is hardly wider than on a circular saw and the cut surface is clean and smooth. If you know what you are going to use the lumber for, you can reduce waste substantially by cutting the correct length from the start. Short logs are also easier to handle.

**Q: Why do I use a crank mechanism to move the chainsaw?**

**A:** Logosol uses the crank mechanism for two reasons; first, it makes it easier to carry out the cutting operation. Second, SBOSH's Regulation requires both hands to be occupied during operating to keep them away from the saw chain.

**Q: What chainsaw do I need?**

**A:** You need a chainsaw with at least 60 cc(4.0 cu. in.), which has two collar studs and two sprocket cover nuts. Today most larger chainsaws on the market are of good quality. We sell Stihl 066, Husqvarna 288 or Stihl 046 with the Logosol mill.

**Q: How do I move the Logosol sawmill from one site to another?**

**A:** The sawmill weighs only 50 kg or 110 lbs. It can easily be transported on the roof-rack of your car and due to its low weight, be carried to the tree to be cut up.

**Q: How do I sharpen the chain?**

**A:** Sharpening a chain with a file is done so the file is set with 1/10th of its diameter protruding the top plate. Owing to the varying cutter sizes for the various chain pitches, different diameters are necessary in order to obtain the specific side and top plate cutting angles. To obtain the best result, the correct filing angle should be 10 degrees. There are different file holders to match the various chain types and pitches. You sharpen the chain in the same way as with a standard chain. For the Stihl PMX chain a 4.0 mm file is recommended.

**Q: When does the chain need sharpening?**

**A:** Whenever it becomes more difficult to perform a cut or the cut becomes ragged. Every second time you refill with gas. If there is sand in the bark you may need to sharpen more frequently.

**Q: Is it better to cut fresh or dry wood?**

**A:** Normally you saw when the logs are freshly cut(green). These logs are easier to process and the wood, has not yet cracked. It is also possible to cut dry wood, but it will reduce the speed and the cutting equipment will wear out faster.

**Q: What quality do I get?**

**A:** Most Logosol owners argue that the final result with the Logosol sawmill is as good as with any other sawmill, if not better. The cut surface is clean and smooth. The chainsaw rests on a carriage, which is moved along the log by a smooth, running crank mechanism and cable on the 16.4 ft. long guide beam. The chain moves in the same position and ensures high cutting precision.

**Q: Is aluminum strong enough?**

**A:** Yes, it is no coincidence that

aluminum is used in aircraft constructions. The alloy which the Logosol sawmill is made of is very strong. So far, no Logosol sawmill has been destroyed in normal operations. The only incident happened when a Logosol owner accidentally ran over the Logosol mill with his tractor. Aluminum also moderates vibrations, while steel reinforces.

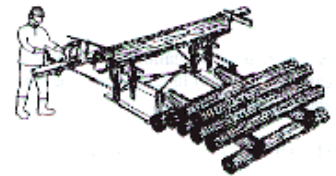
**Q: How do I store the Logosol sawmill?**

**A:** As it is built of rustproof aluminum, it is really durable. With normal use and maintenance, aluminum should last a lifetime. If you have little storage space, it is possible to disassemble the sawmill and store it indoors.

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