

Fresh Cut

WOODWORKING PROJECT

2 • 2010

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News from Logosol Inc

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HATTESBURG, MS
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A mayor with double Log house moulders

PAGE 14

Free hand milling in Ecuador

PAGE 7

Meet the Swiss pine carpenter

PAGE 8



Profit promotes Scottish forestry

PAGE 16



Started up the M7 in the Caribbean

PAGE 4



LAKS inventor visited the US

PAGE 5

MESSAGE FROM THE PRESIDENT

As you will read in this issue of FRESH CUT, Logosol is on the move! No, we are not physically moving our offices, but we are moving our company forward. There are lots of exciting things happening that are driving this movement of Logosol, Inc. The biggest right now is the successful introduction of the latest Logosol Planer/Moulder, the PH360. We have several of these in operation in the US, with more shipping this month, and the feedback we are getting on this new moulder is outstanding! Bigger capacities, smoother operations, faster milling – these are all words we are hearing from these new PH360 customers. The word appears to be out on this new moulder, as we have not been able to catch up with production on this money-making machine. Right now, the US is the number one seller of this machine in all of Logosol worldwide, and we expect this situation to continue.

ANOTHER EXCITING SUCCESS story for Logosol is the introduction of the LAKS Frame Saw in the U.S. We recently hosted the inventor of this unique saw-

ing machine here in the states, and Kalle Laks had good things to say after visiting our LAKS US installations. "There is nothing else like it on the market and we expect 2011 to be "the year of the LAKS" in North America," Kalle said after he returned to Sweden.

YOU WILL READ in this issue about new Logosol co-operations, including our expanded offerings with our outstanding tooling supplier, Toolbox. With this expanding product line we hope you utilize Logosol for all your woodworking and milling needs.

OUR GOAL WITH LOGOSOL, as always, is to be a supplier you can rely on, and enjoy working with. I hope you will enjoy this issue of FRESH CUT, and that you will become as excited as I am about the forward progress of Logosol.

Janne Engvall

President Logosol Inc.



Logosol Electronic Newsletter

Delivers More Than Just Product News

If you haven't joined the monthly Electronic Newsletter that is available from Logosol's website you are missing out!

Each month we have interesting articles that cover a lot more than just Logosol product news.

The newsletter provides the latest information about new Logosol products, notices about current and upcoming specials available on our website, and first alerts

about pre-owned machinery for sale.

We also have articles about how our equipment is being used around the world.

Now we are able to provide even more information to our readers about working with wood. Logosol has recently formed an alliance with the WoodWorkers Guild of America(WWGOA) to provide our readers with expanded information via our electronic newsletter.

WWGOA is an innovative organization, dedicated to improving your woodworking knowledge. Logosol's recent col-

laboration with them resulted in a video clip that quickly became the #1 viewed clip on their website (WWGOA.com) and on their YouTube channel. The clip featured Logosol's Woodworkers Mill cutting lumber.

Along with Logosol's own articles about equipment use, we are including articles from this innovative organization in our upcoming electronic newsletters. This one-two punch of information is sure to help you get the most out of your sawmill and the lumber you produce with it.

Already in the works is an article about building nested tables from natural-edged planks, and an article about how to handle big pieces of wood in your shop. Look for this and more in upcoming issues of our electronic newsletter.

Join over 15,000 readers of this informative online publication. Just click on the "Newsletter" button at the top of our website home page (www.logosol.com).

Then look for new and informative articles, product news, and sales info every month from Logosol in your email in-box!

Fresh Cut Woodworking Project

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Special thanks all Logosol friends who help us make Fresh Cut/Woodworking Project better!

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JOY

You become proud and happy when creating by working with wood. Standing in the sun sawing or planing; feeling the scent of sawdust; processing a log into something lasting - building that sauna, terrace or house you have dreamt of – what an amazing feeling!



FELLOWSHIP

As a member of Team Logosol, you are part of a fellowship. We belong to a large group of people that share dreams of working with wood. You have access to experience, tips and ideas through our customer magazine Fresh Cut and our website, but also through personal contact with members round the world.

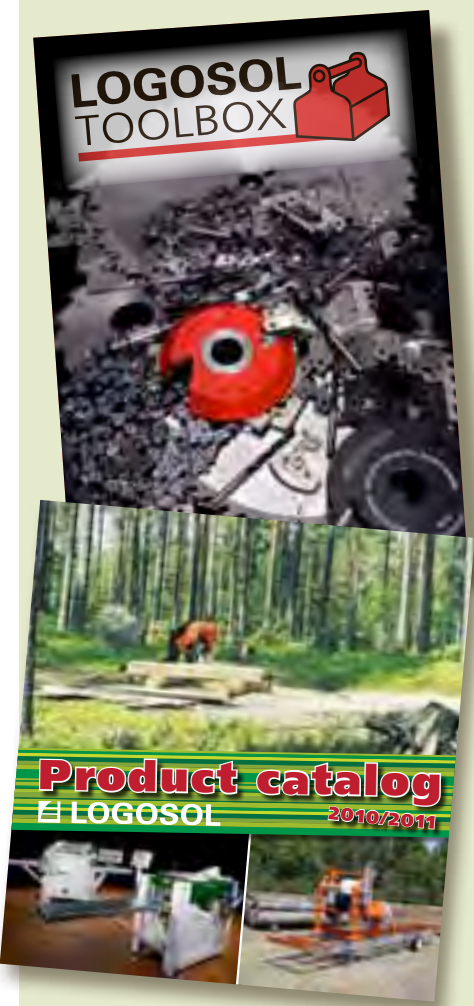


PROFITABILITY

You can for a small investment start to process your own timber. No matter whether you are processing timber for personal use or for running a business, this is a profitable occupation. You have the opportunity to make use of all kinds of wood, and create exactly what you have dreamt of.



• Mattias Byström, Logosol.



The New Logosol

Logosol is a company on the move! With a new president at the helm, this innovative Swedish company is taking steps that will expand the range of products offered and bring new Logosol products to the marketplace.

Logosol's CEO, Malte Frisk is looking for Logosol to become a full-range supplier for woodworkers with Logosol's unique products at the center of Logosol's machinery lineup. "This company has a history of innovation," he stated recently. "We are now focusing on leveraging Logosol innovation in all areas of woodworking."

Logosol recently expanded their Research and Development staff with new highly qualified individuals, and Logosol's Product Director, Mattias Bystrom, is busy with the staff on several, new, engineering projects. The staff is tasked with adding new accessories for existing Logosol products, as well as developing new products

that provide solid solutions to customers' ever expanding needs. Logosol products are sold in a multitude of countries, and some of the new products address needs and provides adaptations of Logosol products for different types of applications in other areas of the world.

EXCITING PROJECTS
Bengt-Olov Byström, the Founder, Inventor, and former CEO, is now the Chairman of the Board for Logosol AB. Bengt-Olov says "this new position makes it possible to engage myself much more in exciting projects, and together with our customers develop new machinery. I had almost forgot how fun it is to participate with my bare hands in finding new solutions and ideas."

Another area Logosol is expanding is its cooperation with other suppliers. Logosol is together with long time Swedish partner Toolbox, introducing a new product range labeled Logosol-Toolbox. It is a full range line of tooling for moulders, planers, and jointers. The line includes brands like CMT, SafeSaw and the new Logosol brand

LOG21. Logosol will from the start be marketing this expansive woodworking tooling lineup worldwide. "We now have a full range of woodworking tooling, including an expanded line-up of shaper heads, knives, router bits, and solid body cutter heads," said Janne Engvall, Logosol, Inc. (USA) President. "This greatly adds to the tooling options available to our existing customers, and makes Logosol products relevant to a wider group of woodworkers," he added.

COMMITMENT TO CUSTOMERS
All this adds up to a company on the move, both in product development and marketing, as Logosol continues to bring innovative woodworking solutions to the market and bring quality woodworking tools to its customers worldwide. Look for new products in Logosol's future, and take advantage of this unique company's commitment to customer satisfaction and solid woodworking solutions.

COMING UP 2011...

Look for a new and expanded Logosol Product catalog to be released early in 2011. The new catalog will feature the full lineup of Logosol products as well as the NEW Logosol 4-Head Planer/Moulder, the PH360. Several other NEW Logosol products and accessories will also be included. Call Logosol at 1-877-564-6765 to reserve your copy.

Also, be on the lookout for the NEW Logosol-Toolbox catalog that brings all of Toolboxes line of cutter heads, router bits, and other tooling accessories into one big catalog. This catalog is sure to be an exciting resource for the serious woodworker and milling expert. Expected release date is early 2011.

Logosol will also be debuting their new brand LOG21 in 2011! This exclusive brand will feature new milling technologies from Logosol-Toolbox in an exciting format.

Logosol is doubling its range

Logosol is now a complete supplier of tools for machine-based woodworking. The number of items kept in stock is being doubled.

This is a two-part investment. Firstly Logosol has signed a worldwide sales agreement with CMT and its long-time subcontractor Toolbox, and secondly a proprietary, high quality and value for money range has been developed under

the brand name LOG21. At the time of writing, Logosol is producing a 150-page tool catalog in addition to the normal catalog. This agreement and the own brand LOG21 represent a major step forward for Logosol as a complete supplier of tools for machine-based woodworking for both industrial and handicraft purposes. The extent of this development is illustrated by the number of items kept by Logosol being doubled in one fell swoop. Thanks to this in-

vestment, Logosol can now offer a comprehensive range of planing bits, cutters, blades, router bits and other wood-cutting tools. The venture is described in more detail on page 10.

• Logosol is investing in the widest range of router bits. Amongst other types of equipment.



M7 IN THE CARIBBEAN

Logosol recently was invited to St. Vincent to provide training for the St. Vincent & The Grenadines' Ministry of Agriculture, Forestry and Fisheries. The Ministry had just purchased a Logosol M7 Sawmill. They wanted to be sure and get started correctly with the sawmill, as there were few mills on the island and not much training available in the way of milling lumber.

St. Vincent is the largest island in this small Caribbean country, with a population of 110,000. The Ministry was looking for the best way to mill thinnings from older Caribbean pine plantations, and from non-native hardwood species such as Blue Mahoe.

The first day was devoted to putting the sawmill together and then putting on a demonstration and press conference. The press conference was scheduled at 2 in the afternoon and the Head of the Ministry of Agriculture would be there! The mill hadn't been assembled yet, so the pressure was on. I had about 25 people helping me put together the sawmill, and their enthusiasm for the project was inspiring. We had several groups working together under the shade of an almond tree, and before long the M7 began to take shape (albeit, we did put it together 2 or 3 times before it was the right shape).

DEMONSTRATION CUT

We got a log on the mill and began our first cut right when the TV cameras showed up and the Head of the Ministry of Agriculture, Forestry, and Fisheries was ready to start the press conference. We had a quick press conference during which the Minister expressed his optimism for the project and told of other projects in the Grenadines that he thought the Logosol sawmill would be helpful for. After that, we made a demonstration cut with the cameras rolling and the sawdust flying. I gave a few interviews with the local TV stations and then we finished off the logs and got ready for the next day.

The second day, we positioned the M7 in the back of a 4 wheel drive diesel Toyota pickup and headed up into the edge of the rainforest. The Ministry had some 40 year old Caribbean pine plantations that they were interested in thinning, and we would be making some test cuts in one of their

plantations. About 4 or 5 vehicles went up there, with me in the pickup with Franklin, who was the best driver in all of St. Vincent. Negotiating the traffic in St. Vincent was an everyday adventure, and Franklin was the best at this, thankfully for me.

As soon as we arrived, the rain started, but that didn't slow us down. We set up the M7 in the rain, and they dropped a pine tree and pulled the log out of the forest and onto the mill. Once we got the log situated, we began to make some nice cuts on the mill, with everyone there taking a turn. We got in some good training that day, in spite of the rain. The mill proved it could handle the Caribbean pine easily. At the end of the day, we loaded the mill, lumber, and people in the back of the trucks and went back down the mountain.

BLUE MAHOE

The big test for the sawmill would be the next day, when we went up to the edge of the rainforest to mill some Blue Mahoe. Blue Mahoe is a non-native hardwood that has found a home in St. Vincent. It is a very desirable hardwood, with beautiful grain patterns and a variety of coloration within the wood. It will range from reddish to bluish coloration to white within the same log. It makes for some very interesting furniture. The Ministry is interested in harvesting this species and making the wood available to local craftsmen to use in furniture production.

Blue Mahoe is very hard, and grows to impressive sizes quickly in this environment. The log we had waiting for us about a half mile into the rainforest was around



• A little rain doesn't stop the training in the St. Vincent Rainforest!

30 inches in diameter. Officials with the Ministry expressed their doubts as to whether the sawmill could successfully mill this species.

NATIVE PARROTS

We toted the sawmill and equipment in to the site, which was completely inaccessible by mechanized machinery. We selected a log and began to take it apart using the M7 sawmill. The employees of the Ministry were impressed and again everyone there got a chance to cut a board. The lumber in the Blue Mahoe log was beautiful and board after board began to stack up as the day went on. We also had local craftsmen there to see the milling and they also got a chance to try out the Logosol sawmill. At the end of the day, everyone carried out a plank.

St. Vincent is absolutely beautiful. During our breaks back at the trailhead, we were able to see native St. Vincent Parrots flying above the trees of the mountainside. The rainforest was very impressive, with many unique species.

LOVE OF THE RESOURCES

It was a joy to work with the employees of the Ministry of Agriculture, Forestry and Fisheries in St. Vincent. The employees and local craftsmen were very enthusiastic and eager to learn. I was very impressed with their love of their resources and their ongoing efforts to maintain it. I am hoping the M7 will become an integral part of their operations.

By Charlie Griffin

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• The St. Vincent Rainforest Milling Crew.



• M7 Trainer Charlie Griffin with a premium Blue Mahoe wide plank cut during training St. Vincent. (However, it wouldn't fit on the plane!)

LAKS Comes to the US.

Kalle Laks, inventor of the LAKS Frame Saw recently came to the US to visit a couple of our recent LAKS installations.

We first visited Tim Hemphill in Pennsylvania, where Tim has implemented the LAKS to help him keep up with demand for his unique cabins that he builds out of lumber he mills himself. When we drove up to the milling site, we could see stacks of lumber all around. "We've never had this situation before," Tim said as he pointed out the stacks of lumber. "This machine is turning out the material for us!" he added. Tim cuts his cants for his buildings on another sawmill, and is supplementing his lumber production with the LAKS. "It's working out great!" Tim said of his LAKS.

Later in the week, we went down to Cajun country in southern Louisiana, where Rusty Savant has a LAKS 330 Frame Saw in his shop. "I've found that this saw is perfect for cutting quarter sawn material when you match it with another sawmill." He told us. "This speeds up making quarter sawn lumber considerably!" he added. Rusty has developed a method of sawing a log on his sawmill where he takes apart the log into cants that fit nicely on the LAKS 330 frame saw. He makes a few cuts on his traditional band mill, and then transfers the cants to the LAKS for it to do the rest of the work. "It takes the rotating part of making quarter sawn material out of the process – this is much faster!" Rusty said.

Kalle enjoyed his trip through the U.S. and seeing the ways the LAKS is being utilized here. "We have machines in over 32 countries worldwide," he told us. "It is the same everywhere the LAKS is used. People learn that this sawmill really produces a lot of quality lumber quickly." He added.



• Rusty and Kalle start a long leaf pine cant through the Logosol-LAKS Frame Saw in Louisiana.



Quarter sawn Longleaf Pine flooring blanks produced on the LAKS.

LOGOSOL IS BACK ON THE ROAD

Logosol recently attended two major sawmill shows in the US. We went to the Paul Bunyan Show, "The Original American Forestry Show", October 1, 2010, in Cambridge, OH with the Logosol M7 sawmill, and milled lumber for 3 days at the Guernsey County Fairgrounds.

The mill was really well received, with lots of people stopping and checking out the cut on the boards and asking for information on the sawmill. We cut 10 logs at this show, producing around 800 bd.ft. of lumber!

Later that month, we also attended the Sunbelt AG Expo in Moultrie, Georgia, where the crowd was estimated at 90,000 attendees from around the world. We were set up in the sawmill section, where we milled 8 logs and produced 600 bd. Ft. of lumber during the show. We also had the PH260 in operation at this show, and we ran demos for whoever stopped to look. We made some decking boards with a round-over pattern out of oak and pine.

People were very amazed at the sawmill at both shows, with comments like: "that's amazing" and "it just don't get any better than this!" After each cut, people would come up to check out the cut and to make



• A show visitor just has to stop and read the latest FRESH CUT. operation at the Paul Bunyan Show.

sure they had just seen a chainsaw make a perfect board.

The weather was perfect for both shows. It was great to be out and milling lumber in the middle of all the other sawmills that were at the show. We had some of our Logosol equipment owner friends to stop by and tell whoever happened to be in earshot how they liked their equipment. One sawmill owner stopped by, and he was one of the first people to buy a mill from us at



• The M7 Woodworkers Mill in operation at the Paul Bunyan Show.

a show years ago! "I've gotten a lot of use out of my sawmill over the years," he said. "I still use it whenever I need to get some lumber."

We fit right in at the Paul Bunyan show. Their mission statement reads: "...provide access to current knowledge and technology which enhances the quality of life and

market competitiveness of individuals, families, industries, and communities." That sounds like a description of Logosol and our equipment!

We hope to do more shows next year, so keep a watch on our website and make plans to see us at a show near you!

Shooting tower disguised as a moose

For many years Hälge the Moose has been a cartoon character in Nysågat magazine (swedish Fresh Cut.)

We owe him an apology. The Logosol sawmill is now used for the series production of towers and hides for moose hunts.

Manufacturing takes place in Hassela. The cartoonist Lars Mortimer also lives in Hälsingland. If there is a real Hälge out there somewhere, then he is running around in these woods.

It all began a few years ago, when Jussi Juselius visited Hassela in his capacity as a representative of a major Finnish company; his purpose being to sell the area's Plyfa plywood factory. It ended up with he and his wife owning the factory.

"Jussi is very busy whenever we are here, but I wanted to have something to occupy my time in Sweden," Tuula tells us.

A TASTEFUL TOWER

At home in Finland she runs a design company called Secto Design which makes lighting fixtures. Its products are sold all over the world.

On a visit to Åland, she had seen a moose tower in the shape of a moose. The artist Juha Pykäläinen was of the opinion that normal moose towers looked more like the guard towers in prisoner of war camps.

So he came up with a tower in the shape of a 12 ft high moose. Around 20 were made, which today are located all over the Ålandic archipelago.

There were just two problems. The first is that Juha Pykäläinen wants to work as an artist, not a moose tower manufacturer, and the second is that on Åland there isn't a single moose to hunt!

Suitable raw materials were available at Plyfa in Hassela, in other words top quality spruce which is turned into plywood.

The residual material is round heartwood which would otherwise be made into chips and used as biofuel. When split, the heartwood instead forms the ideal material for moose towers and hides.

FAST SAWMILL

A new company was started up for the project, Älgpasset Hasse AB. Tuula runs the business assisted by two other people: Eva Ekvall takes care of the administration side and Michael Högdahl alternates between making hunting hides and working as a churchyard warden.

Shooting towers and hunting hides are items that are usually put together in the woods. The results reflect this. As time is becoming an ever more precious resource, the demand for finished products is increasing. This generally means food but should



The company's more conventional hunting hides.

also encompass shooting towers and hunting hides in construction kits. To start manufacturing products quickly and cheaply, a Logosol sawmill with bandsaw was purchased. It has a single task, to quickly split round heartwood.

"It takes hardly any time at all and the results are good," says Michael, who has used Logosol machines before.

APPEALING VIEWING TOWERS

The split heartwood is used to build the moose hides called Femettan and Alert. Both resemble the Hälsinge model that appears in the Hälge cartoon strip, but are of considerably higher quality with well-thought-out functions to make life easier for the marksman.

Standard timber, however, is used to make the show model Hasse, the moose-shaped tower. This model has received a great deal of attention and is paving the way for the company's other products. The moose tower recently became the first product of its type to receive European utility model protection. The tower had already received protection in Sweden and Finland. Norwegian utility model protection is pending.

"Juha Pykäläinen has improved the view of hunting in a sympathetic way, so that it even appeals to people who don't hunt," says Tuula Juselius.

It wouldn't be too far off the mark to say that the moose tower will become just as sought after for use as viewing towers and conspicuous signage. That's how it's used on Åland, in the absence of moose.



You can find out more about the Hasse moose hide and the company's other products at www.algpassethasse.se.

An artist's version of a shooting tower.



"It takes hardly any time at all to saw and the results are good," says Michael Högdahl, who makes shooting tower construction kits using a bandsaw on a Logosol sawmill.



"Juha Pykäläinen's design even appeals to people who don't hunt," says Tuula Juselius, who has begun building the moose-shaped tower in the background.

TIMBERJIG in Ecuador

Jim Birkmeier of Timbergreen Farm from Spring Green, Wisconsin recently contacted Logosol about a project he was working on with the Kallari Cooperative in Ecuador.

He was planning a training trip down to the cooperative, and wanted to include a Timberjig and a 36" Picco bar and ripping chain in the mix of equipment he would be using to train the cooperative members. As you may know, Jim has a successful flooring business in Spring Green, using the Logosol PH260 as the principle moulder for his finished products. He also is a successful sawmiller and a forester, so he knows his stuff when it comes to milling. But, for this trip, he had to leave his big sawmill behind, so he turned to Logosol to help with the technology for this area where there were no sawmills in place.

MILLING FOR YEARS

The Kallari Cooperative in Ecuador had been milling lumber for years, but it was all done by freehand milling with a chainsaw. Jim was going into territory where they "knew their stuff" when it came to chainsaws.

Here are some of the comments he recorded on his first day there:

- "There has never been a sawmill here – Your stuff is all wrong for here....."
- "We all just saw logs with a chain saw – our men are very professional....."
- "It will overheat the engine, you need to break off all the rakers...."
- "I could do that much faster the way I always do it..."
- "That is just firewood, we throw that all away...."

STARTED HIS TRAINING

Then Jim started his training. After the first big slabs began to be sliced off of logs that had lain in the forest for years, Jim began to get their attention. When he put the 36" picco bar and ripping chain Logosol had sent with him on the big Stihl, and the saw began to move faster through the log, they really got interested. And when they began to slice boards out of scrap pieces of wood

with the Timberjig, there were hooked. Here is what the cooperative Director had to say afterwards:

"A couple years ago I thought it was impossible for us to create these large slabs of wood from old logs, I couldn't comprehend how to create value from something just laying in the forest. I never imagined it would be this easy – we needed so little to get started. We did not have the vision to use our scrap wood and make it into something valuable like furniture. I could see the finished product in books or internet, but didn't understand how to make it from our trees. Now I feel like my eyes have been opened with this lesson, as if we have woken up from our slumber and can now initiate a new woodworking facility."

ALTERNATIVE INCOME SOURCE

"Our families have a small income and wood is something that will contribute to their overall family earnings, it still makes a difference for our village/community members."

It helps us rest at night as leaders, because our job is to find a way to create alternative income sources to the deforestation and contamination."

"I also want to thank the companies that donated the equipment and Timbergreen Farm for donating the chainsaw. These tools will serve as a cornerstone for the future woodworking business of Kallari."

(Elias Alvarado, Production Director: Kallari Cooperative in Tena, Ecuador)

PROUD PARTNER

Jim had this to say about the experience:

"It is rewarding to see the many changes this cooperative is making," said Birkmeier. "We have been sharing ideas for 6 years. Elias will stay in our home for 5 days in November, and he will be able to see and try many new things. What he will value and take home to his people is hard for me to predict, but we will have some fun working together."

Logosol is proud to be a part of this ongoing effort by Timbergreen Farms. Thanks, Jim for a job well done and for including us in this project!



• Making planks from discarded cutoffs with the TimberJig in Ecuador.



• A great combination: The TimberJig and a 36" picco bar and ripping chain making a test cut in Ecuador.

THIRD GENERATION FEEDING

One of the finishing touches on the new bandsaw mill, the Logosol Norwood LM Pro MX34 is the smart feeding unit. You can control the sawing from one location, and the unit also removes the newly sawn timber.

There were previously two types of feeding unit for log bandsaws. The simpler variant is an auxiliary motor that is controlled from the saw unit. The saw operator walks with the saw unit. This is how feeding worked with the old LM40, with the addition of an automatic return.

On the more advanced models, the saw unit can be driven, raised and lowered from the operator's station. The saw unit is run forwards and backwards until the logs or cants have been cut. Some also have a log return. These are complicated, and therefore expensive designs.

When we were developing the LM Pro, the issue of smarter feeding that also helps lift the timber was raised. The solution pro-

ved to be simpler than anyone could have imagined.

This is how the new feeder for the Logosol LM Pro works: The saw unit is controlled from the operator's station at the end of the sawmill. When the log has been sawn, two solid flaps automatically drop behind the band. When the saw unit is backed up, the plank or board is carried with it. The flaps protect the sawblade from damage.

The saw operator receives the timber, and can offload it onto rollers or place it on a stack. It is also possible to construct some form of table which the timber is pushed on to. The height of the saw unit can then be adjusted in one quick action and it is then ready for the next cut.

The automatic feed was demonstrated at Logosol's DIY trade fair at the beginning of October. Several hundred visitors were able to see, with their own eyes, that the unit is smooth and does a better job than both of the previous models.

NOTE: This unit is only available for electric versions of the LM Pro.



• Logosol's designer Jonas Höglund demonstrates the new feeder for the LM Pro bandsaw mill. Inserted image: Flaps that drop behind the sawblade.

Interview with Swiss pine carpenter Konrad Kreitmair:

"I make beds for Austria with a Swedish planer from Finland"

Konrad Kreitmair is a genuine lover of solid wood. He comes from an old family of carpenters, and since the founding of his own company he has worked exclusively with Swiss pine as a master carpenter and graduate interior and architectural designer. Fresh Cut talked to him about his work and his most important assistant, the PH260 4-side planer.

• **Why do you only work with Swiss pine?**
Konrad Kreitmair: "According to folklore, Swiss pine has almost mythical properties. One of the most important is that you sleep much better in a Swiss pine bed than you do in a conventional bed. I like the soft, fine-grained and earthy-red wood, where there is a marked distinction between the light colored sapwood and the darker heartwood, although there is no difference in quality. Firmly embedded knots are a special feature of this wood. Along with the typical, slight smell of resin, these are the distinguishing characteristic of Swiss pine."

• **What do you like about your work?**
Kreitmair: "As an ecologically conscious craftsman I only use certified wood, and I only treat the surface with natural oils and waxes - or I finely sand the surface by hand and leave it untreated. The individually designed bespoke furniture is largely handmade using traditional methods, and with great attention to detail. In this way, every piece is timeless and unique, with the highest quality craftsmanship."

• **Why is the PH260 so useful in your work?**
Kreitmair: "I use the 4-side planer to plane and surface the unplanned strips on at least two opposing sides, which are then glued together to form wide boards. Therefore, I can now combine what used to be two stages of work into one. This saves time by at least 50 percent. But the planing process is not the only thing that counts. With the two work stages I not only had to handle the strips twice, I also had to transport them from one machine to the next."

• **What advantages does the PH260 offer in comparison with other machines?**
Kreitmair: "This plane can handle even relatively large pieces, up to 10 inch wide, and plane them on all four sides in one pass. In addition, I cannot afford most of the new machines. Even old, used carpentry machines, which also take up a lot of space and are very heavy, are often still very expensive in spite of being 30 or 40 years old. On the other hand, the Logosol PH260 is within my price range, handles the sizes I need, and is a relatively small machine that only takes up a small amount of space because of the possibility of mounting it on two wheels. In addition, I can gradually upgrade the machine with various routing tools and accessories."

• **How did you find out about the PH260?**
Kreitmair: "Wood enthusiasts like us like to gossip about our hobbies and vocations. By coincidence, I was talking about planing to my wood chip supplier, and he told me: 'I



• *The Swiss pine carpenter Konrad Kreitmair from Painten, near Regensburg, with his Logosol PH260 4-side planer.*

bought a Logosol PH260 at an exhibition in autumn to plane boards or log profile planks for my summer house as a hobby. It can do everything!" On Saturday morning I took a look at the machine. After that the PH260 was the only machine for me."

• **Did you buy the PH260 used or new?**
Kreitmair: "While I was looking for a used machine I got a surprise: anyone who has a PH260 never lets it go. It is very rare that you find one on the used machinery market – and if you do, someone usually gets there before you. Finally I found one. In Finland! So now a Swedish planer from Finland planes wood in my workshop to make beds for customers in Austria."

• **How do things look after 18 months?**
Kreitmair: "The investment in the planer was one of my most effective and economical investments for a long time. The planer paid for itself within a very short time. It is a machine whose power you neither see nor expect. Many people have been astonished at what this little machine can plane. In addition, it is entirely mechanical, with no electronic parts that can break. With a few tools, skill and understanding, and the right spare parts I can make small repairs myself."

• **Do you have any criticisms about the PH260?**
Kreitmair: "There are always things to criticize on any machine, or rather: wishes. For example, I wish that the width adjustment could be a bit faster. Although you can make coarse adjustments quickly, the machine reaches its limits with fine adjust-

ments, possibly due to the deliberate lack of electronics, but fine adjustments are possible. Adjustable surfacing heights on the lower shaft are only possible by inserting or removing shims. I would like to see a quick adjustment here. Chip removal on the right hand vertical blade head can only be adjusted by adjusting the side stop. It would often be practical to quickly take off one or two millimeters more and then quickly reduce the chip removal again."

• **Your conclusion?**
Kreitmair: "The PH260 is a brilliant machine, which has never let me down. The simple and robust technology can be mastered by anyone. Anyone who wants a little more now has the choice of the new PH360. I already have my eye on this machine. With this, most of my wishes have been realized, to make planing even more fun – at least for me."

Interview by Christine Edel



• *Just like this Swiss pine bed, each piece of furniture made by Konrad Kreitmair is timeless and unique, and of the highest quality craftsmanship.*

FAKTA: Swiss pine (Pinus Cembra)

In places where it is far too cold for most varieties of trees, the Swiss pine copes with snow and extremely hard frosts in winter, and intense sunlight in summer. Pinus Cembra has adapted itself perfectly to the mountain climate. It grows at altitudes between 1300 and 2500 meters. It is a truly pioneering tree. According to folklore, this antibacterial and moth-repellant wood is said to have wonderful properties: you sleep much better in a Swiss pine bed than in a conventional bed. Extensive research by Austrian scientists confirms this phenomenon. "If you sleep in a Swiss pine bed, the

number of nocturnal heartbeats is reduced by about 3600," reports Prof. Dr. Max Moser from the results of an EU study. The essential oils in Swiss pine obviously have a beneficial and soothing effect on sleep. A further effect is revealed by the optical laboratory: Swiss pine reflects light with a warm, fiery color. This light especially protects the sleep hormone melatonin, which is responsible for the human diurnal rhythm. "Swiss pine medicine" is also a great product for the palate and the stomach. Swiss pine schnapps and Swiss pine liquor are made from the cones of the Swiss pine.

The PH260 Spins Straw into Gold

I LOVE to make what others consider Waste wood into high-value beautiful long lasting wood products that earn me a good income.

Worthless logs – the wood that should be harvested first in good forest management are small diameter, curved logs, unwanted species, and dead timber - normally used for firewood or pulpwood. We have developed our business to do annual harvests that improves the forest and pays a good logger and timber grower an excellent wage. We earn 100 to 1,000 times the traditional market value paid to forest owners for these low value trees.

UNLIMITED PRODUCTS

We make and install custom blended hardwood flooring, cabinets, countertops, & furniture – selling our products direct to local homeowners. We use what the forest gives us and make things other people need. Our Custom Blended Flooring is an expression of our natural forest.

A woodworking shop in our 100 year old dairy barn transforms low value lumber into high value products. Basic tools – a table saw, a shaper, chop saw, one sided planer, and our Logosol Molder are used to make unlimited products.

Flooring is our main output. We use the PH260 to make our tongue and groove flooring symmetrical – usable with either side up. This saves a lot of wood, but you have to think when you install it to show the prettiest side of the board.

LUBRICATE THE SURFACES

I sawmill lumber 1 1/16th inch thick which comes out of the solar heated kiln at about 1". We skip plane the boards to 15/16th inch with a one sided planer to remove the band sawblade ridges, and any thick portions of the board on one face. This makes the pass through the Logosol smoother, producing a better surface on our floor boards and millwork. We wax the bed of the Logosol frequently with paste wax, to clean and lubricate the surfaces that touch



the wood – keeping the boards flowing efficiently through the machine.

Higher value products like Cabinets, Wood Countertops, and Furniture earn us 5 times the value per board foot of lumber. We use the PH260 to S4S wood strips for glue ups.

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Every purchase you make is a vote for the future of your local economy – Every Vote Counts!

By Jim Birkemeier,
Spring Green, Wisconsin

• Jim Birkemeier (Left) shows Josh Manaugh how to turn dead oak trees into high value flooring. "The market value for our floor boards is about \$3 sqft. By simply nailing the board to the customer's floor, we earn another \$3/sqft. Sanding and varnishing earns another \$3/sqft. Installing our flooring in our customer's homes earns us retail prices, making the whole forest to finished flooring system profitable."



• Mixed Species Custom Blended hardwood flooring allows Timbergreen Farm to sell the natural output of their forest direct to customers at full retail prices. Happy customers refer friends for more sales.

How to cut Monster Logs 101

Peters Valley Craft Center's Woodshop, as part of their summer series of wood programs, hosted a Big Mill demonstration on August 7, 2010.

Sponsored by Logosol, the demo started off on a beautiful sunny day with a crowd of twelve that grew steady as the day progressed. Peters Valley allowed the demo to be set up directly in front of their woodshop learning facility with enough room for all attendees, cars and equipment.

Gary McNabb, running the big mill portion of the demo, arrived with his big Mill, ramp and plenty of examples of different types of wood that can be slabbed up.

The milling started off with the knurliest walnut log that could be found. Most of the folks didn't realize the joy of cutting open a log like this. There was a debate started as soon as they saw the



• Gary poses for a photography class that invaded his Big Mill demonstration at Peters Valley.

grains and the most unbelievable crotch feather. Questions like, "Who is going to get that piece?" and "who is going to get this one along with all the others that followed?"

The first cut was used as a hand out table and soon forgot. The

demo went along smoothly until the 385 husky threw it's roller bearing and for a while it turned into a demo how to repair your saw and how to be prepared with spare parts to fix your saw in the field in case this happens. When the saw was fixed the demo went very smoothly.

A lot of time was spent explaining drying, stacking techniques, different types of curly, and crotch woods along with the different types of cuts, plain, rift and quarter sawn.

Peters Valley Craft Center had a hand out rating the demo for future consideration and the attendees rated it great success. All said they would come back next year even though they worked hard all day as they rolled all the logs with cant hooks and stacked all the milled lumber. They did, however, go home with some really nice walnut and other wood.

Peters Valley Craft Center is a national center for fine craft education in New Jersey.

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GLOBAL COOPERATION

Logosol has entered a global sales agreement with Toolbox, a subcontractor for many years.

"The cooperation means that, together with Logosol, we can invest more in product development," says Toolbox Managing Director, Martin Lindqvist.

The immediate effect for Logosol's customers is a significant widening of the amount and types of products available from Logosol. The companies have cooperated since the mid-1990s, but this previous cooperation related only to cutters and knives for Logosol's planers and moulders.

"We hope to get involved earlier in the development of new machines and contribute to the process with our extensive knowledge of woodworking and tooling manufacturing," says Martin.

UNIQUE PRODUCTS

Toolbox's core competence is planing and moulding knives. In addition to planing and moulding tooling, the company has an effective range of sawblades, shaper heads and router bits for standard woodworking equipment and dovetailing units. In addition, Toolbox has its own unique product, Safesaw System which converts an angle grinder to a multi-sided tool for woodworking.

Toolbox is focusing on Logosol's planer/moulders and joinery machines. This can be seen in the company's own joinery workshop, where new tooling is tested.

The machinery installed in Toolbox's workshop is the four-sided planer PH260, the format saw PS315 and the vertical milling machine, MF30.

"There is nothing else like the MF30 on the market, and it has inspired us to create new tools," says Martin.

He shows a completely new set of moulders for producing insulated glass windows. By changing one knife and one counteracting knife, the appearance of the profile is changed. Using a special knife, you can create unique windows at a reasonable cost.

Solid body shaper heads and router bits have been a weak area for Logosol. The global sales agreement allows Logosol to offer possibly the widest range on the market.

The manufacturer is CMT and any type of tooling not available from this manufacturer is probably very difficult to get hold of.

GREAT BENEFIT

In addition, the agreement means that Logosol can offer high-quality products under our own brand. The name of the new brand is LOG21 and covers high quality tools for all types of woodworking.

Logosol's CEO Malte Frisk has great hopes for the cooperation:

"This will be of great benefit to our customers and a real step forward in our work to become a comprehensive supplier with unique products for woodworking"

Logosol deepens its cooperation with Toolbox and takes over exports and marketing of the brand worldwide. Martin Lindqvist shows a new 120 mm high sidecutter for Logosol's four-sided planers.



TOOLING TALK...

When you purchase knives from Logosol for your planer/moulder, you can expect consistent quality, ease of use, and industry standards.

"All Logosol knives use the same type of head, which means that you don't have to change the setting when changing knives," says Martin Lindqvist at Logosol's supplier, Toolbox.

Toolbox has produced knives for Logosol ever since the first three-sided planer was launched almost 15 years ago. The company has changed owners along the way, but still retains a reputation as a leading authority on knives and other tools used for woodworking.

There is a little bit of a specialist language concerning tools for woodwork, for example HSS, corrugated metal back knives and carbide. What is what, and what is good for what? Martin Lindqvist helps to sort out the terms.

DIFFERENT TYPES OF KNIFE

- Tool (high carbon) steel or carbon steel Often used in industrial planers and to grind profiles. The knife wears relatively quickly, but is easy to sharpen. Starts out sharper than other types of knife, but the sharpness is lost quickly.

- HSS, also called high speed steel. The name is misleading as it relates to an alloy that maintains sharpness for longer. The hardness makes it more difficult to grind profiles with good results. Therefore, Logosol's moulding knife is produced using a method called Electrical Discharge Monitoring (EDM).

- Carbide. An alloy of several metals including tungsten carbide and cobalt as the main ingredients. Extremely hard, but also extremely brittle. Stays sharp for longer, but is difficult to sharpen. The brittleness means that the knife can break if you drop it, or run into a hard inclusion in the wood.

BETTER THAN THE INDUSTRY

"Logosol's standard planer knives are produced using HSS and are also available in carbide," says Martin. "The HSS planing knives for Logosol are now all made with 18% tungsten, which gives them the ability to withstand greater heat when planing and to last longer," he added.

At the same time he shatters the widely held understanding that big industry uses different, better knives. "The same steel is used for both," he explains. If there is any difference it is that the Logosol planing knives are of better quality, to avoid having to sharpen them so often.

For softer woods such as spruce and pine, HSS is the best alternative. Carbide tooling is an option for planing and processing large quantities of harder woods, such as oak, hickory, or exotic hardwoods.

The next mystery is the TB90 and corru-



Maria Linder checks some knives after EDM. The entire process is extremely precise and fully computer controlled.

gated metal back knives. TB means Toolbox and is the most common type of cutter for planers and moulders in Europe.

The knife is held in place with pins and a wedge. This means that the knife is indexed into the head ending up in exactly the right place every time. Since Toolbox uses the same head for all knives, the knife can be changed without having to change the head settings in the machine.

The TB90 cutter has now gained a bigger cousin, the TB92. This is 120 mm (4 3/4") high and handles knives of up to 130 mm (5 1/8"). This has been developed for the new Logosol PH360, but also fits the PH260.

Knives for the TB90 cutter are available in two thicknesses, 4 and 5.5 millimeters. The thicker knife allows a four millimeter greater protrusion or depth of cut, 25 mm (1") instead of 21mm (3/4").

Bigger protrusions require thicker knives

and a different type of cutter. To accomplish this, the knife is held in place using grooves or corrugations made in the back of the knife, hence the name corrugated metal back knife.

The thickest profile cutter knife from Toolbox is eight millimeters (5/16"). The benefit using the same base however, is lost. A corrugated back cutter head must be used to hold these knives. These heads do not use the indexed tooling system, so setup time is increased for this type of tooling system.

THE SAME EVERY TIME

All Logosol knives are produced individually, both standard and special, using EDM. Very basically, the knife is cut using electricity and high temperatures in a water cooled environment.

Production is fully automatic and starts by loading a CAD file on one of the four computer-controlled machines.

"The quality is exactly the same for standard knives and special knives," says Martin.

30 per cent of knives produced for Logosol are specially produced according to the customer's specifications. All CAD-directions are saved. If the customer orders any more knives, these will be exactly the same as the old ones.

The biggest advantage of the Logosol sawmill:

Rough sawn surfaces in a class of their own

What is the advantage of using a Logosol sawmill compared to other types of sawmill? A sawing surface to surpass all others.

Almost two years ago, Logosol's product manager and his family bought a wooden cabin a stone's throw from the High Coast Bridge in North Sweden.

The cabin had been used as a ceramics workshop. The timber frame was fine, but otherwise the cabin needed a complete renovation to convert it to a summer cottage.

All interior and exterior timber, panels and load-bearing beams, were sawn using a Logosol sawmill. All except for one board, which was sawn using a bandsaw. The interior walls consist of three-sided planed timber with the rough sawn side facing outwards.

"The band sawn board is different from the others," says Mattias showing it.

All the timber from the Logosol sawmill has an almost planed surface. No raised grains, just a smooth surface.

The band sawn board looks hairy close up. The fibers have lifted and will probably lift even further when the wall is painted white.

"We need to sandpaper this board down before painting it," notes Mattias.

Why does the Logosol sawmill give such a noticeably improved surface than a bandsaw, and much more so than a circular saw?

Mattias answers:

"I think that it is because the bandsaw

blade has a blunter cutting angle. The chain, is quite simply sharper.

The chain cuts off the fibers, while the bandsaw blade, with its blunter cutting angle, seems to lift the fibers slightly before they are cut off, which can give a hairy or fuzzy surface.

As most users have experienced, the fibers are even more obvious when painted. This problem can be avoided by sawing with a chain.

— This is an observation made in a lot of customer feedback to Logosol: If you want timber with the best surface, choose a Logosol sawmill.



"The Logosol sawmill gives a much smoother surface than other types of sawmills," comments Mattias Byström, during renovation of his summer cottage.



PH360 Is The Maine Planer/Moulder

"My planer guy really likes it!" said Melvin Yoder of Yoder Sawmill in Corinna, Maine, when I asked him about the new ph360 he recently installed. Melvin was one of the first in the US to install and use the PH360, the new LOGOSOL 4-head Planer/Moulder.

He says it is "easier to set up than the PH260," and likes the fact that "the top head moves up and down instead of the whole planer table." And he likes the bigger rollers on the feed system. "The feed worked well," he added.

Melvin is no stranger to Logosol planer/moulders. Yoder Sawmill was one of the first companies to install the PH260 when it was first introduced over 8 years ago in the USA. He remembers he received one off the second container to be shipped here. "There is no telling how many feet of material we have put through that machine," he said of the PH260, as he fondly reminisced about those first years of working with the machine. "That machine just keeps going," he added. When he heard about the new PH360, he quickly ordered up a new machine.

Yoder Sawmill takes material from the

log to the finished product, cutting the logs and drying the lumber on site, and then making it into what his customers order. He has 3 full-time employees and some part time help. He primarily works with white cedar, and produces a lot of 5/4 decking. This decking is all run through the moulder with corner ease knives installed so a rounded plank is produced that is perfect for decks. He also makes a lot of T&G V-matched siding and paneling. The product is beautiful in white cedar. "I sell a lot of this material," he notes.

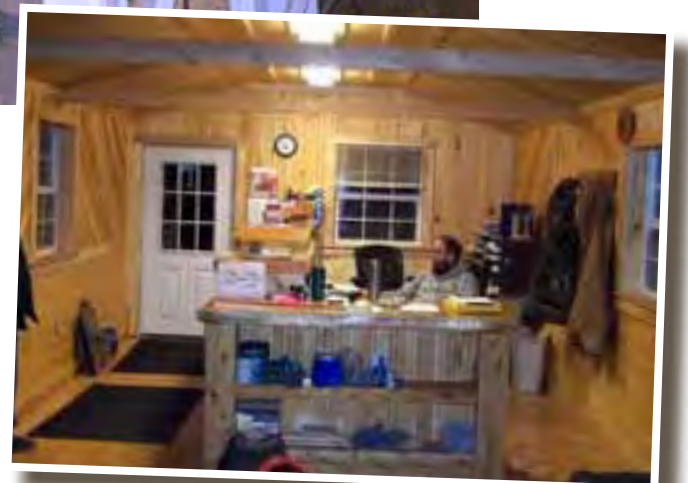
He has taken advantage of the new wider capabilities of the PH360. "I had one order for some 14" material and it worked well," he said. He is able to get a premium price for this material as it is hard for anyone else to produce. "The stronger motors on the top head and the big feed system really help with this wider material," he said. He recently finished up an order for 10,000 linear feet of lap siding.

When asked about the PH260, he said, "we plan to keep it in operation alongside the PH360, using it for short run orders." It's still working and ready to continue to be a productive part of the Yoder Sawmill, but Melvin's happy that he has the PH360 to take the brunt of the workload.



• Melvin Yoder with his new PH360 in his Maine shop.

• The Yoder Sawmill office, where customers can easily see what the PH360 can produce!



BETTER than air-drying

Tree biology is the explanation for fewer cracks and less warping



"With the Sauno method, the timber dries in the same number of weeks as years are needed to achieve the same moisture ratio with air-drying," say Leif Mattsson and Svante Larsson. Left: the difference between air-dried and sauno-dried timber (bottom).



Air-drying works well if you are going to use the timber to build a house. But you can't rely on the spring winds to dry it enough for use in furniture.

"It's the biology that means furniture timber has to be dried artificially," says Svante Larsson, who together with Leif Mattsson came up with the Sauno dryer.

Svante is one of the owners of the company Plano System, where Leif works. In a past life he was a high-school chemistry and

biology teacher.

When Leif showed him the newly built Sauno dryer, he used his knowledge of bio-

logy and woodworking to examine it closely.

ONLY ALIVE ON THE SURFACE

"The principle is far from new and was used by furniture makers as long ago as the 19th century," says Leif.

The difference is that today science can explain how the process works and why the results are so much better.

"The answer lies in the physiology of

the tree," explains Svante.

Trees are only alive on the surface, between the bark and a few millimeters into the tree. The rest is dead wood with an automatic function that transports water to the treetop and keeps it in the cells (vessels and tracheids) in a drought. The mechanism continues to work even when the tree has been felled and sawn into pieces.

"A cubic meter of raw, newly sawn timber can contain 66 gallons of water," says Svante.

Air-drying can't remove all that water. The dead wood reacts just as it would in an extreme dry spell and shuts the water inside it. It doesn't matter whether you saw it into thin sheets.

OPENS THE PORES

The solution is to change the cells so that they can't shut the water inside. This is why the Sauno method begins the process by adding water and heat. The water vapor that is formed then permanently opens the ring pores of the cell. The actual drying process then begins under low heat and since the pores are open, it takes much less time and achieves better results than air-drying.

"The drying time is counted in the same number of weeks that air-drying in heated premises would take years. Drying pine to a 7-9 percent moisture level for use in furniture takes between 3 and 4 weeks. It would take 3-4 years to get the wood down to the same moisture ratio with air-drying," says Leif.

PROVEN METHOD

Since the pores are open during the drying process, there is less tension, which leads to fewer cracks. Often there aren't even end cracks in a Sauno dryer.

As previously mentioned, the method is far from new. It was used in the 19th century but was forgotten when industrialization required faster flows. At the large sawmills, drying with moisture and heat has come back into favor, in order to reduce the drying damage.

"Unfortunately the industry uses the method to bring the drying times down too, which doesn't give the very best quality. That is achieved by doing the drying yourself following the Sauno method," summarize Svante Larsson and Leif Mattsson.

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• This is the lumber stock urt Blaser gathered for building his rustico at an altitude of 970 meters.



• The short distance from the felling location to the M7 was covered by his daughter's horse.



• Kurt Blaser's first cuts with the M7.



• The new rustico under construction, with the chestnut ridge beam.

Kurt Blaser builds a rustico in the Tessin Alps

A helicopter and an M7 CAN MOVE MOUNTAINS

In 2007, Kurt Blaser came up with his great plan to build a rustico – a rustic Italian-style house – at an altitude of about 1000 yards, when he bought a plot of land from his neighbor. The neighbor's house, which had also been a rustico, had burned down and the the owner himself was seriously ill. To realize his plan, Kurt Blaser just needed a Logosol M7, which he had flown by helicopter up to Monte Colmo, above Loco, in the Onsernone Valley in Tessin, Switzerland.

"First of all, I cleared the surrounding trees, and it made me think about the chestnut and birch wood that resulted," says Blaser about the first steps towards his new rustico. A few years earlier he had restored a similar "Tessin house" and had bought chestnut beams, which he had to have flown up the mountain by helicopter. This time he wanted to use local wood.

"I heard from my power saw dealer that Logosol had a machine that was suitable for my unusual project," remembers Blaser. Without any hesitation he ordered an M7, since its functionality had quickly impressed him. He picked up his new machine himself in Bad Saulgau, the German Logosol branch, and was also taught how to use it.

The M7 was transported up the mountain in its packaging by helicopter. "It only took me a day to assemble the M7, which somehow reminded me of IKEA," grins Blaser, talking about his new Swedish purchase. As well as the M7, he had also ordered a Logosol jack to lift the massive logs. "Without it, I would never been able to get the trees onto the saw, because chestnut is very heavy," says Blaser.

Kurt Blaser is sure the M7's 2200 lb load capacity was fully taken advantage of while the rustico was being built. Transporting the heavy chestnut logs from where they were felled nearby was an additional problem that had to be solved. The 50 yard distance to the M7 was finally achieved the traditional way: with lifting gear and

his daughter's horse. Finally, it was time to make the first trial cuts. The trees on the mountain do not grow as straight as one might wish. "Sometimes the first cut was straight, but on the second cut the wood warped so badly there were differences of almost an Inch," explains Blaser.

Finally he managed to cut the 12" x 12" chestnut ridge beam and all the 10" x 10" lintels for the doors and windows, which were then built into the house. He also managed to save material: with the M7, he was able to cut the rafters to size from existing old beams.

Now, the enthusiastic rustico builder, who cannot stop working with his M7, has bought an old walking excavator he can use to lift the wood onto the M7 – a great relief for everyone involved, including the horse.

"It's so fun and very satisfying to use wood you have felled yourself to build your own house. I have never regretted buying the M7," says Blaser, now that the work is finished. He will be able to enjoy his new home for a long time, since this type of rustico built from chestnut usually lasts for several centuries.

Christine Edel

"Here you can see real forests without end, where you can walk for days without seeing anyone but another walker. Here you feel the spirit of ancient times. Here there is still the breeze from the first days of creation."

From an ode to the Onsernone Valley, author unknown.

A mayor building 'climate-smart' with a double LM410

France is a country built from stone, brick and, in recent years, concrete. Raymond Herberteau intends to change all that. He may well be a mayor, but he's going to achieve this change using his own sawmill.

Raymond Herberteau is mayor of the small village of Les Ventes de Bourse just outside the town of Alençon in Normandy. His wife comes from Belarus, and he has drawn inspiration on how to build climate-smart and energy-efficient housing from the same country.

"The log houses in Belarus are fantastic," he says enthusiastically.

That may be true, but how does such a style fit in with the French building tradition? The houses along the country lanes, including the mayor's, are all built from natural stone walls. On the other hand, the Belarusian style of construction does suit both the surrounding countryside and our shared environment much better.

BETTER FOR THE CLIMATE

"One of the French government's aims is to increase the number of wooden houses," explains Raymond Herberteau.

There are two reasons for this. Firstly, trees bind carbon dioxide and by building out of wood you could say we're imprisoning the greenhouse gases in the walls. Secondly, wood is an excellent material for building low-energy housing.

The inspiration from Belarus caused a few problems. Ready-to-use timber cannot be bought in France, but this was not something that would deter Raymond. He is a practical man, and counts among his possessions a fully equipped carpentry workshop that has been put to good use over the years. The solution was to buy a sawmill and start making timber from trees felled in local forests.

"In this neck of the woods, there's a lot of Douglas spruce, which is ideal for timbering. And there's also a fair amount of oak," he says, pointing to a healthy pile of 30-ft-long logs.

The plan is to build 2-3 fairly large timbered houses for year-round occupation

on the property, for rent and for sale. The houses will be made from 5-inch lumber and the inside of the walls covered with cellulose insulation. They will be passive houses that only need additional heating on the coldest days of the year.

"What's more, an insulated timber wall suppresses noise better than a stone or concrete wall," declares Raymond Herberteau.

The project started in early 2009 with an assessment of the market's small-scale sawmills. A lot of thick and long wood needed to be sawn. The best option was a band sawmill and he found the Logosol LM40 on the internet. This sawmill met all his requirements and Logosol also offered the LM410 log molder, which Raymond Herberteau thought was very good value for money.

DOUBLE MOLDER

In the spring of 2009 he traveled to Härnösand so he could take a proper look at the sawmill and log molder. He liked what he saw and it was a done deal.

There is now an impressive setup installed in a newly built machine room in Les Ventes de Bourse. Bolted securely to the concrete slab floor is the sawmill with a 36-ft-long rail, plus a double LM410 log molder.

"One side is set up for straight planing and the other for molding. It saves a lot of time," explains Raymond Herberteau.

He believes the LM410 to be an unusually well-priced piece of machinery. He also bought two special handheld machines for making the corners. They cost more than the molders.

The sawmill is not alone; the machine room also boasts a Logosol PH260 4-sided planer. Originally this was used to make dowels, round battens, for the timbering. Its next task will be strips and panels for the houses.

THE HIGHEST PRECISION

When Nysågat visited him, Raymond Herberteau was in the middle of aligning his setup, helped by Gérard Doucet, who is assisting with the project and will be building a timbered house for himself as well.

The timber looks like a cross between the Swedish version with tongue and groove



• Using two Log house Molders LM410, is a real time saver. One is for planing and the other one is for profiling. "This saves much time", says Raymond.

and the American D logs.

"I made a sketch of the profile shape during a trip to Belarus and sent the drawing to Logosol, and they made up the right sort of steel," he tells us.

This is a profile with a push fit that requires high precision when molding. Which is why the 36-ft-long sawmill is equipped with a precision molder guide on each crossbar along the entire length of the rail.

Once everything is set, log after log can be sawn and molded on a conveyor belt.

"I've always been interested in wood. For me this is both a real pleasure and a business project. The result will be genuinely attractive houses," says Raymond Herberteau, with Gérard Doucet echoing this sentiment.

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• Gérard Doucet is checking the result of the milling. "The accuracy is perfect", says Gérard and Raymond Herberteau.

Scottish Wood came into being by chance

The profits are used to promote forestry in Scotland

Maggie and Jim Birley started a sawmill more or less by chance.

They bought a disused coal mine in order to build a house.

The result was Scottish Wood, a growing company with nine employees.

The old coal mine, a restored opencut mine, is situated outside Oakley, north-west of the Scottish capital Edinburgh. The couple bought the land to build themselves a home, and since 25 hectares of forest was included in the deal, they invested in a sawmill for their own use.

"The idea was it would be a one-man band with a single trainee," says Maggie, who is a physicist by trade.

Jim has a background in forestry management and as the work progressed, the house build grew into a project with the aim of changing Scottish forestry as a whole. For several hundred years now, the United Kingdom has primarily been a large clear-felled area and the forest that does exist has an undeservedly poor reputation.

STARTED A FOUNDATION

Rather than cultivating the forest there is in the UK, large quantities of timber are imported, including from Sweden.

"What we are lacking in Scotland is knowledge of how to cultivate and improve the forest," says Jim.

That's not completely true. Extensive replanting is carried out and there are a handful of pulp mills here, but this is mainly for pine forests which have been planted to become paper pulp. Felling and replanting of the traditional hardwood species, primarily oak and beech, has only taken place to a limited extent for building and carpentry. But Maggie and John Birley are well on their way to changing that.

The method they are using is quite similar to the Swedish Forest Society's work in Sweden a hundred years ago. Together with other like-minded people, they have started the foundation Dynamic Woods, which owns the sawmill, and the network Association of Scottish Hardwood Sawmillers with some 30 members, all small-scale wood processors.

"The foundation uses the profits from the sawmill for various projects in order to promote sustainable forestry in Scotland," explains Maggie.

DESIRE FOR CHANGE, NOT GROWTH

The foundation's work includes doing publicity for the Scottish forest, particularly in concert with the Forest Commission, arranging furniture-making competitions using Scottish raw materials and developing a forestry training programme in Scotland. They have also come up with the forest certification scheme Scottish Working Woods. This label guarantees that the product comes from sustainable forestry in Scotland.

The work is beginning at such a slow pace to ensure success. The Scottish forest is no longer uniformly condemned as useless, and the consumers are becoming increasingly positive when they see that the management of Scottish forest land also creates new jobs.

For Maggie and Jim, the most important thing is to improve and raise the profile of



• "The idea was the sawmill would be a one-man band with a single trainee," say Maggie and Jim Birley who, together with their nine employees, run Scottish Wood behind their home.

forestry in Scotland. The sawmill that they originally started by chance has been a vital tool in this work, but the end in itself is not for the sawmill to grow.

"For several years we've said that we won't get bigger, but demand is increasing all the time, and soon we won't have room to grow any more," says Jim.

THE FIREWOOD CUTTER IS FANTASTIC

It's an impressive piece of equipment that this couple have where other people would normally create a garden. Behind the family house there is a business that grows pile of wood by pile of wood, timber dryer by timber dryer. The heart of the business consists of two bandsaw sawmills and a 4-sided planer, the Logosol PH260.

"The 4-sided planer is a very good machine. We've had it for six years now and it's used every single day. Logosol is very important for small-scale sawmillers. There aren't that many other companies that develop new technology for small-scale firms like ours," says Jim Birley.

You can find more information on the network of small-scale hardwood sawmillers in Scotland at www.ashs.co.uk. The Scottish Wood sawmill has its own website, www.scottishwood.co.uk.



• Logosol's PH260 4-sided planer is an important part of production at Scottish Wood.



• "Logosol is very important. There aren't that many other companies that develop new technology for small-scale wood processing," says Jim Birley.



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