

Each intelligent and smart machine transmits in real time to the 'Cloud' the process data of each log and the operating state of each machine element.

Big-Data Cloud by FINEGA

- The Finega **CloudMill** collects and stores the volume of data transmitted by the different smart machines, the 3D scanner, the optimizer, the sawmill PLC and the VisioScan video.
- Access to the CloudMill Data through friendly using interface.
- Several different dashboard programmable by the sawmill manager.



e-reporting

Reporting on the sawmill Smartphone or computer of the production data, analysis of the recovery, follow-up of the orders in progress, predictive maintenance, etc ...



**4.0 SAWMILL... Smart intelligent sawmill,
100% automatic, 100% optimized & 100% connected**

FINEGA Service Team
VisioScan Data Center

Finega service team connected to the CloudMill
The guarantee of an optimal Sawmill operation



Patricia FOREST - System Service Manager - 25 years experience at EGA



Xavier BRUZEAU / SEGEM
24 ans expérience en design office

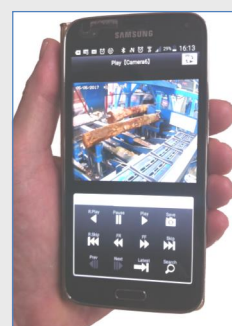
René VICHERAT
Chef Feeter senior MEM expert

Didier BEUNE / MEM Expert
28 years experience at MEM

VisioScan

Intelligent VisioScan system built in IP cameras linked with the 3D scanner and the PLC controls the Workflow, the operating state of each machine and the efficient production of the sawmill.

- Real-time recording of the videos and data to the big-data storage of the « CloudMill ».
- Email alert sent automatically by smart machines to the mill manager.
- Live display or recording display of the production on the sawmill Smartphone.



MasterTwin & ProfilMaster 4.0



**New !
4.0 Smart Sawmill**

Thanks to 50 years worldwide experience in producing **MEM** end-doggers Teletwin and Telecant+ **FINEGA group** introduce the new 3D full automatic range of end-dogger **MasterTwin 3D** & **ProfilMaster 3D** controlled by an **innovative robotized infeed table** and a new **360° Rotary log scanner**.

Depending on the maximum diameter of the logs, 2 technologies are offered:

- Double headrig band saw (Twin) with wheels 140cm (55"), 160cm (63") or 180cm (71").
- Double arbor Twin circular saws for logs up to 60cm maximum diameter.

The **MasterTwin 3D** is equipped with a Canter and a bandsaw or circular-saw Twin.

The **ProfilMaster 3D** is equipped with a Canter, a Twin (bandsaw or circular-saw) and a Profiler built with 4 independant chipper heads removing the wany edge of each optimized slide boards depending on the instruction of the 3D scanner.

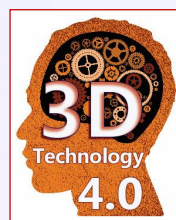
This combined machine includes an automatic log quarter turner system and a bed resawing function for splitting center cant into 2 or 3 pieces.

Prior to the sawing line, each individual log is scanned by a **360° rotary full shape scanner**, the powerfull real time optimizer calculates in a few seconds the best sawing axis in the 3D space, the best 3D orientation of the log and the optimal cutting pattern taking into account the \$ value of each final lumber and the real shape of each log.

A new 100% automatic robotized infeed table loads the log inside the dogging carriage of the machine after angular orientation and optimal squewing of each individual log as per the instruction of the 3D scanner.



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MasterTwin ProfilMaster

After dogging the log along the optimal 3D cutting axis, the overhead truck carries the log inside the machine though the **Canter** heads wich reduce the slabs into chips, then though the **Twin saw** (Bandsaw or circular saw) for sawing each side boards and finally through the **Profiler** wich reduce into chips the wany edge of each optimized boards as per the 3D scanner instructions.

Thanks to the quater turner device integrated into each dogs combined with the bed resawing function included inside the machine, several cutting sequence with logs ¼ turning make possible the complete sawing of each log.

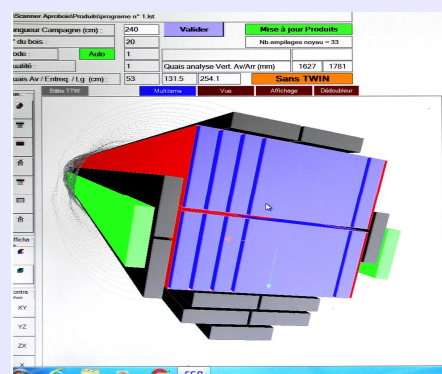
The **%all-in-one+3D MasterTwin** or **3D ProfilMaster** from FINEGA Group is the more flexible et productive sawing line on the market with the fastest return on investment.

Prior to the sawing machine, each individual log is scanned by a new generation **360° rotary full shape scanner** linked with a powerful 3D real time optimizer which calculates in a few seconds the best sawing axis in the 3D space and the complete cutting pattern taking into account the \$ value or each final lumber and the real shape of each log.

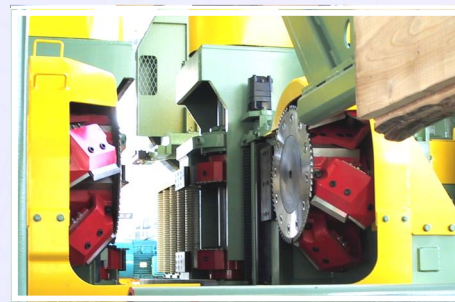
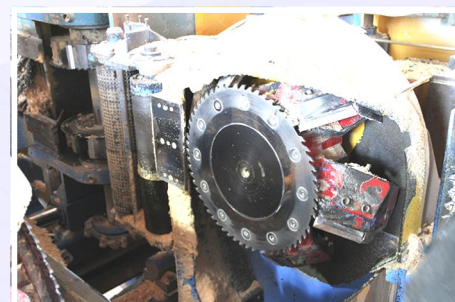
Thanks to the robotized 3D infeed table which set the log in the optimal 3D space position before dogging the **MasterTwin** and **ProfilMaster** are **100% 3D optimised** and **100% automatic**.

No operator needed, less building space, less investment and best recovery compare to a traditional sawing or canter line.

In addition, a full automatic resaw machine and/or rip saw can be linked with the 3D MasterTwin for resawing the center heart in different direction in order to increase the total productivity of the line without any additional staff.



3D real time Optimizer



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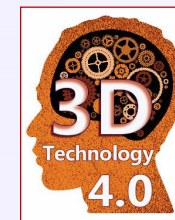
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New !

4.0 SAWMILL

100% Optimized

100% Automatic

Free operator

Sample of 4.0 Sawmill already running

Softwood Sawmill producing construction and pallet lumber,
Log diameter : 25 cm (10" to 65cm (26").

Description of the sawing line :

- 3D new generation 360° rotary scanner linked with a robotized infeed table for optimal squewing of each log before cutting.
- Automatic End-dogger MasterTwin: canter + twin bandsaw.
- Twin resaw with automatic « reverse » function and outfeed table for separating the different type of lumber.
- Full automatic mecanization between the machines.
- Circular rip saw (gang machine) with automatic feeding.
- Automatic boards edger linked with an horizontal resawing machine.

High productivity :

- More than 2 logs per minute totally sawn, 3D optimized in a random diameter production. (no diameter classification).
- Maximum recovery > 60%.
- Only one supervisor for the all sawing line.

AVANTAGES

High productivity and flexibility

Random log sawing, no log classification

3D real shape scanning of each individual log

Intelligent and smart machines

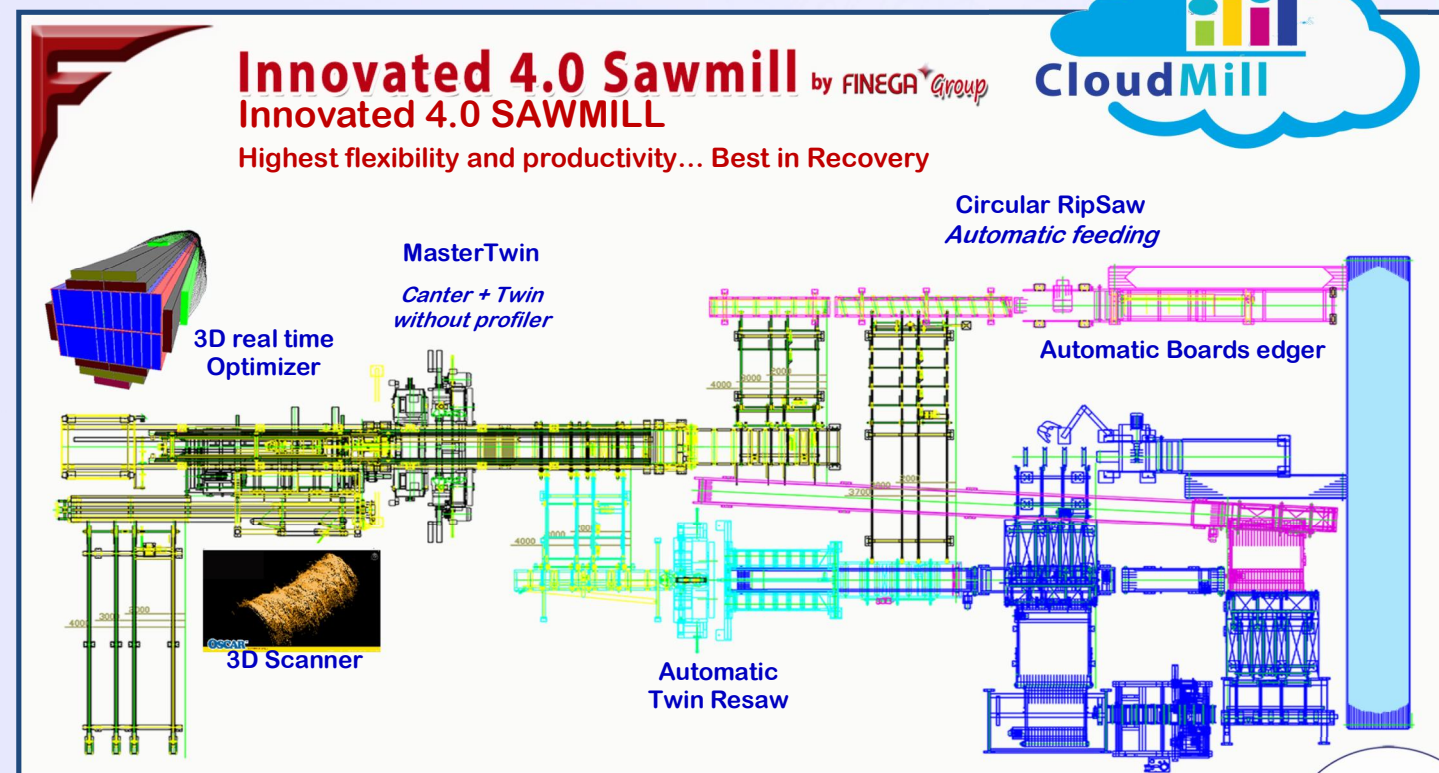
Computerized management system

Automatic monitoring by « VisioScan »

« E-reporting » analysis and control of the production.

Sawmill conncted to the iCloudMILLbig data.

Real time assistance and predictive maintenance though the CloudMill.



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