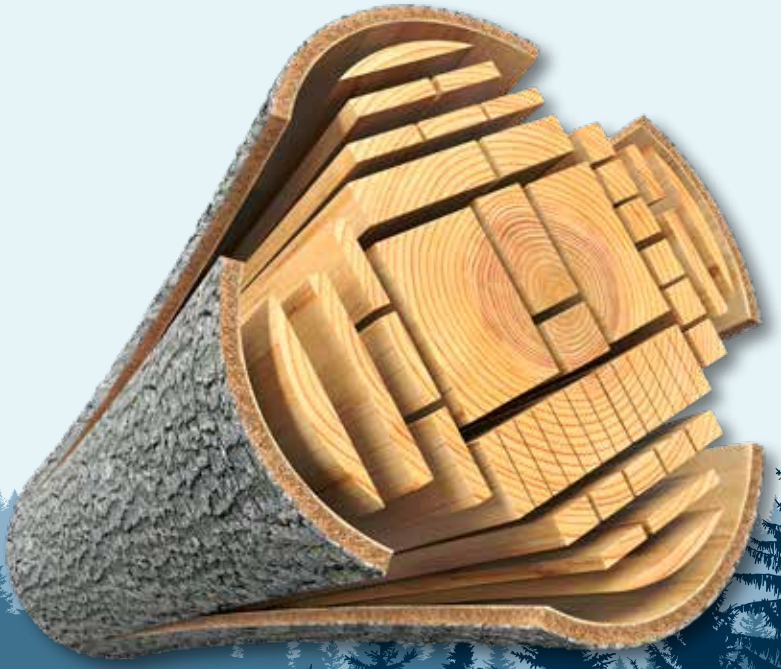
SAWING DECISION MAKER

An efficient tool for production planning



SDM

SAWING DECISION MAKER

PLAN YOUR PRODUCTION WITH SDM

The raw material cost is the single largest expense for a sawmill, let SDM help you to utilize the raw material in the best way possible. The program gives a good overview of the production whether sawing patterns are applied log by log or if the logs are presorted into log classes.

MAXIMIZE YIELD AND CONTRIBUTION MARGIN

With SDM you have the possibility to calculate the economic yield and contribution margin for sawing patterns. You can quickly find which sawing patterns and products that will give the best result.

SHORTEN LEAD TIMES

By using SDM you can quickly get an answer on how to produce a new order of new board dimensions. You can easily build new sawing patterns and find out in which log class they shall be sawn for the best yield.

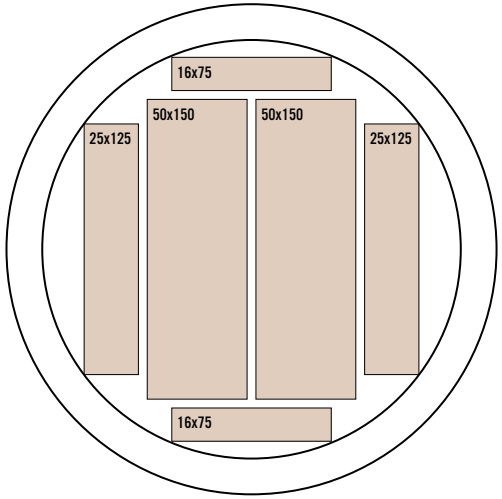
EASY TO USE

SDM is a ready-to-use solution which is quick to get familiar with and is easy to use, several employees within the company can use the program in parallel. Information can easily be exported and imported from and to Excel.

CREATE SAWING PATTERNS

SDM provides the ability to analyze all types of sawing patterns quickly and easily. The log dimensions, diameter, taper, length and heart wood content can easily be varied. For a given sawing pattern the volumetric and value yield are shown along with the contribution margin. These key figures can then be used to compare sawing patterns to each other or to perform more sophisticated analyzes, such as variation in log dimension. Sawing patterns can also be compared to each other with regards to throughput in the kiln and dry sorter.

CONTRIBUTION MARGIN	
TIMBER CLASS	
Top Diameter	210 – 222 mm
Average Length	455 cm
Average Taper	9 mm
Average log Cost	60 € /m³f
PATTERN	
Logs per hour	500
	/m³f
Yield	52,1%
Sawn wood	84 €
Chips	8 €
Dry Chips	0,2 €
Sawdust	0,8 €
Total	93 €
Log Cost	-60 €
CM	**33 €**
Sawmill CM	**3.298,5 €/h**

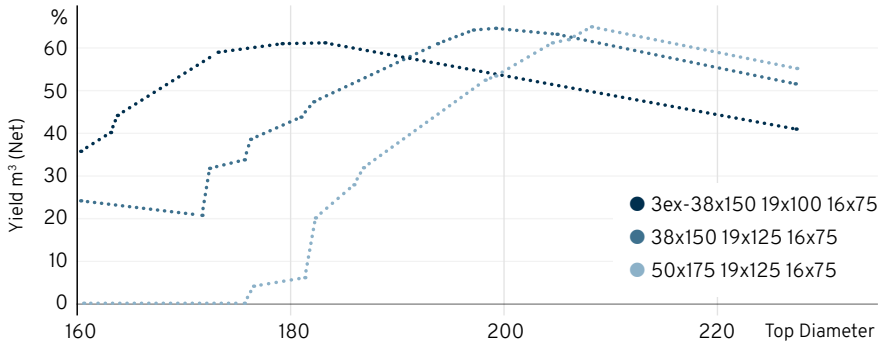


Versowood is Finland´s largest private producer of sawn timber and further processes goods. Annual production amount is 1,4 million m³ of sawn goods, and Versowood uses SDM in all five sawmills since 2018. The beauty of SDM is the ability to dynamically analyze log class diameter ranges as well as the cost/income analysis.

MATTI PERÄMÄKI, Development Director Versowood

COMPARE AND ANALYZE

Existing sawing patterns can be added to a graph where different key figures can be analyzed regarding variations in log top diameter. Several patterns can be analyzed simultaneously and compared to each other. The graph also gives a good indication if and how the logs should be sorted in log classes.



SORTING IN LOG CLASSES

A table with log classes can be created and sawing patterns can then be added to each class. An average for each key figure is displayed. It is also possible to take the log distribution into account when the averages are calculated. This gives and excellent overview over the production.

PRODUCTION BUDGET

Given a log class table and the number of logs processed for a certain period, the complete production of sawn wood can be displayed. One can also see from which log classes a specific dimension is produced.

Product	m³sawn wood	Log Classes	Products
50x150	562	T195	50x150
44x200	740	T250	44x200
44x175	1006	T210, T225, T250	44x175
44x150	65	T180	44x150
38x150W	56	T180	38x150W
32x150	230	T165, T180	32x150
32x125	527	T140	32x125
25x150	132	T165	25x150
25x150W	1046	T165, T195, T250	25x150W
25x125	809	T150, T195	25x125
25x100	340	T165, T180, T195, T225	25x100
25x79	88	T165, T180	25x79
19x125	137	T165, T210	19x125
19x100	102	T250	19x100
19x75	423	T140, T150, T165	19x75
16x125	18	T180	16x125
16x75	325	T180, T195, T210, T225, T250	16x75

Sawn Wood 0 m³ 500 m³ 1 000 m³

	Name	Diameter Range	Taper	Log Length	Logs	Log Cost	Pattern	Logs/h	Active	Yield m³	Value m³	Board yield m³	CM m³	Saw CM/h m³
▶	T140	140-149	8	432	16 827	58,3 €	–	–	–	48,7 %	104,3 €	Boards...	56,0 €	3.249,3 €
▶	T150	150-164	9	430	14 224	58,5 €	–	–	–	48,9 %	104,5 €	Boards...	55,8 €	2.643,8 €
▼	T165	165-179	8	450	11 721	50,9 €	–	–	–	51,0 %	93,0 €	Boards...	51,5 €	3.087,7 €
							t165-2x25-4x19	450	✔	51,8 %	103,1 €	Boards...	61,3 €	3.521,8 €
							t165-3x25W-2x25	450	✔	51,2 %	76,3 €	Boards...	34,7 €	2.000,7 €
							t165-2x32-2x25	500	✔	49,9 %	99,7 €	Boards...	58,5 €	3.740,4 €
							t165-2x38-2x25	500		47,4 %	111,5 €	Boards...	70,7 €	4.512,6 €
▶	T180	180-200	8	440	3 348	55,0 €	–	–	–	51,8 %	90,5 €	Boards...	44,7 €	2.669,4 €

SDM is well suited to do pre-calculations for new sawing patterns. After I have received a new request from the market regarding a new product it just takes me a couple of minutes before I know which log class it gives the best result in and how it compares to our existing sawing patterns.

DANIEL FREDRIKSSON, Moelven Valåsen

We use SDM as a decision support tool in several different areas. For example, to be able to compare gross margin for sawing patterns in relation to capacity utilization is very valuable. One strength with SDM is its user friendliness and structure.

MATTI STENDAHL, Production Manager, Spruce, Setra

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SDM is available in three different languages, English, Finnish and Swedish. As of today, the program is used by more than 50 sawmills in Sweden, Finland, Norway, Estonia, Lithuania and Poland. The program is used by both large sawmills with extensive presorting of logs and sawmills with little or no sorting and individual optimization for each log. Questions like “how should we process this new order of board dimensions?” can easily be analyzed. SDM is a quick and analytical tool for the complete process. The program can be customized to work for both small and large sawmills.

Would you like to know more, call us or visit
sawingdecision.com

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