

UPPER CUT ROTARY SAW



ADVANTAGES

- High volume, one man operation.
- Stacked and nested cutting.
- Inkjet marking member identification.
- Cuts very low angles.

System	Member	Qty	Size	Grade	ATT	AST	ASD	ATL	ATR	Overall	Notes	Code
J4	W1	3	1.2	1000	P10	60.6	49.9	41.1	35.6	375.0		
AS1	W1	4	1.5	1000	P10	47.1	55.4	24.6	35.0	148.0		
AS1A	W1	2	1.2	1000	P10	63.2	49.3	40.7	35.0	379.0		
1020001	W2	2	1.2	1000	P10	63.2	49.3	40.7	35.0	379.0		
1020001	W2	4	1.2	1000	P10	53.8	36.2	1000	11.6	1109.0		
1020001	W3	4	1.2	1000	P10	47.5	44.4	22.2	35.0	1075.0		
1020001	W3	6	1.1	1000	P10	42.9	44.4	10.2	35.0	695.0		
1020001	W3	1	1.8	1000	P10	61.2	28.9	61.2	35.0	1899.0		
1024001	W2	1	1.5	1000	P10	67.5	67.5	90.0	35.0	627.0		
G11	W1	1	1.2	1000	P10	60.0	67.5	67.5	35.0	380.0		
G11	W1	1	1.2	1000	P10	67.5	67.5	90.0	35.0	288.0		



creating the advantage

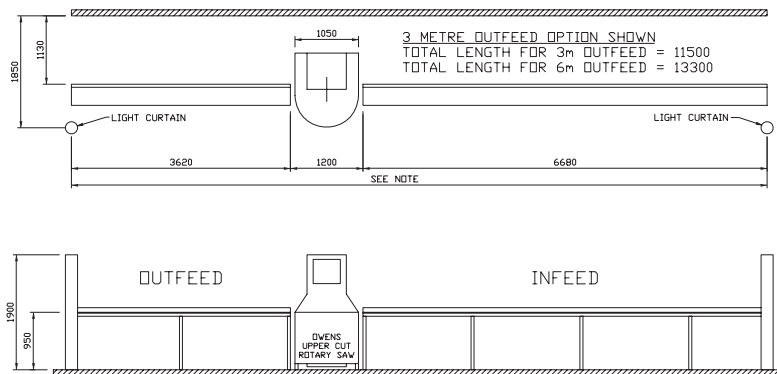
UPPER CUT ROTARY SAW

Description:

The Upper Cut Rotary Saw is a high volume single operator, truss component saw. This versatile saw is ideal for cutting both webs and chords and uses highly efficient optimising techniques to maximise saw productivity including stacked board cutting, and nested 'negative waste' cutting. This flexible system allows low angle cuts down to 3 degrees, and the servo controlled movement and strong timber clamping combine to ensure accurate cutting. The Upper Cut Rotary Saw touchscreen interface is simple to use so even novice sawyers can quickly become productive.

Features:

- Optimising software for cutting multiple members from a single stock length, with shared cuts for 'negative waste' cutting.
- Board stacking up to 3 boards high, with 3 sensors to accurately record cutting progress.
- Combining of like members for optimal board stacking.
- Low angle cutting to zero degrees and short members down to 30mm. Long, low angle cuts are achieved in multiple aligned cuts.
- Ink-jet marking of truss & member ID on top face of stack eliminates hand marking.
- Simple, rugged, low maintenance construction.
- Servo controlled movement and pneumatic timber clamping for high cutting accuracy.
- Multiple integral dust extraction ports (dust extractor optional).
- Two hand control and perimeter light curtain guarding protects the sawyer and other operators.
- Easy software options for re-cutting selected member or manually entered one-off members.
- Touch screen operation for scrolling through and entering information into the software.
- Generates .PRD file feedback for optiflow production monitoring.



Specifications:

Operation and Performance:

- Cutting operation requires the sawyer to operate two hand hold-to-cut controls.
- Typical output 90-100 parts per hour. Productivity varies depending on type of members cut, optimisation settings, and flow of materials to and from the saw.

Machine:

- Blade: Custom blade, 540mm diameter, 72 teeth, 4mm kerf.
- Motor: 5.6 kW with failsafe mechanical brake, run to stop in under 10 seconds.
- Configurations: Right or Left Hand (Right hand shown in diagram).
- Controller: Industrial PC with LCD Touchscreen, Win XP, LAN and USB connections.
- Automation Type: closed loop DC servo motor.
- Data File Format: MiTek .MME file.

Cutting Capabilities:

- Member types: Webs and Chords (up to 3 cuts per end, no compound mitres).
- Cut angles: 0° to 180° (Long, low angle cuts achieved using multiple cuts).
- Cut offset: 0 - 140mm.
- Timber width: 70 to 190mm.
- Timber thickness: 30 to 105mm.
- Timber stock length: 600 to 6000mm.
- Stacking: up to 3 boards high subject to blade angle limits (refer table).

Installation Requirements:

- Electrical: 415V, 3-phase, 20 Amps.
- Compressed air: 690kPa (100 psi), clean, dry air.
- Floor: Level concrete floor in good condition.

Options:

- Right hand or left hand input.
- Saw dust extractor.
- Spare saw blade.
- 3m or 6m outfeed.

Maximum Stack Height at Low Angles:

Timber Size	Max Stacked Boards	Angle
70 x 35	2	3°
90 x 35	2	3°
120 x 35	2	5°
140 x 35	2	5°
190 x 35	1	12°#

#Lower angles achieved with multiple cuts

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