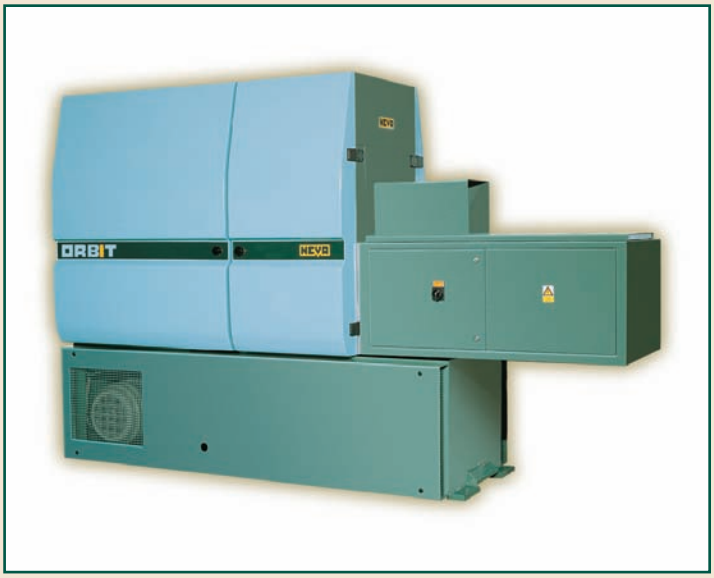
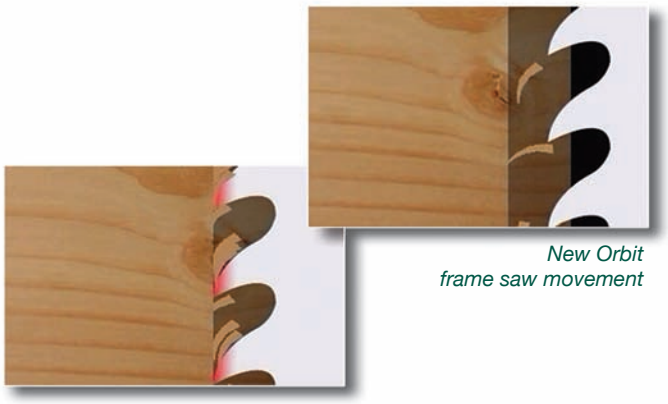
ORBIT™

ogden enterprises, inc.
www.ogdeninc.com

THIN-CUTTING FRAME SAW OF A NEW GENERATION





New Orbit frame saw movement

Conventional frame saw movement

The Orbit Thin-Cutting Frame Saw was developed for cutting solid wood blocks into glueable slats with a minimum of saw kerf waste. The Orbit utilizes a unique up/down method of movement for cutting veneer slats. Unlike conventional frame saws that move up and down in a lineal motion, the Orbit uses a patented swing-out motion at the bottom of the saw stroke.

During the downstroke of the saw frame, the cutting motion is perfectly lineal. At the bottom of the stroke, the saw frame swings out of the cut in the same direction that the wood is moving. Once the saw frame has retracted out of the cut, the frame travels back to the top, remaining out of contact with the wood during the entire upward motion. The saw frame then once again begins its lineal downward cutting motion.

This unique movement has several distinct advantages over the frame movements on older, conventional frame saws. With a conventional frame saw, a great deal of heat is generated by sawdust that is captured/packed into and around the saw blade teeth. This occurs because the sawdust and wood chips are unable to clear out from the blade during the upstroke. This fact is especially true when cutting high, as some of the teeth in the center of the saw blades never clear out of the cut. Because the Orbit saw frame moves out of the cut during the upstroke, wood chips and sawdust fall clear from the saw blades. The result is less heat build up on the saw blade, longer saw blade life, dust free slats, and the ability to use a thinner kerf saw blade.

Standard Equipment

- Side guide system or
- Central guide system
- Cast-iron carriage
- Solid steel drive arms
- Automatic raise-lower of the top feed rollers via electric push button
- Driven top and bottom feed rollers
- Air blast system

Optional Equipment

- Channel guide system
- Hopper feed
- Top/bottom planer
- Maximum cutting height up to 250 mm
- Oil misting system

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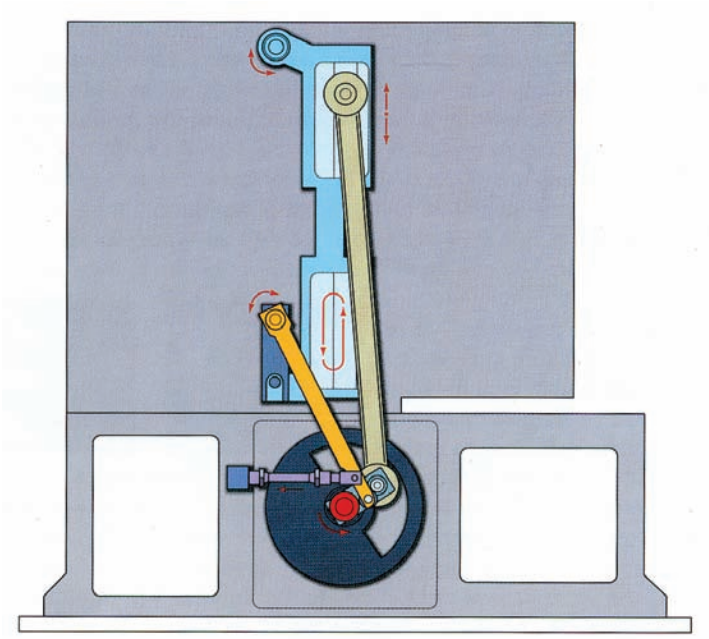
Features and specifications



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Convenient side opening allows for safe removal of the saw frame.

Capacity

Veneer Slats	1150 - 1650 ft²	350 –500 m²min
Feed Speed	6.5 in - 1 ft	0.3 – 2.0 (m/min)

Motors

Main Motor	20 hp	15 kW
Top Planing Head	2 hp	1.5 kW
Bottom Planing Head	2 hp	1.5 kW
Motor to open Machine (kW)	.34 hp	0.25 kW

Machine Dimensions

Length	8.5 ft	2600 mm
Width	31 in	800 mm
Height	5 ft	1800 mm
Weight	7,700 lb	3500 Kg

Technical Specifications

Stroke	8 in	210 mm
Strokes per minute	450	450
Cutting height	8 in	200 mm
Cutting width	6 in	150 mm
Saw blade kerf	.043 in - .053 in	1.1 – 1.6 mm
Min. slat thickness	.080 in	2.0 mm
Bottom/top driven rollers	12/4	12/4
Bottom dust hood	6 in	160 ø mm
Top dust hood	5 in	120 ø mm
Air speed	82 ft/sec	25 m/s
Compressed air – min	90 psi	6 Bar
Compressed air volume	30 - 350 ft³/h	2 – 10 m³/h

The Neva collaboration

Since the late 1990s, Ogden Enterprises and Neva Trade have worked cooperatively to share knowledge and resources in the field of thin-cutting technology. Through the strength of our ongoing relationship, our two companies have successfully taken this technology to the next level. Ogden Enterprises and Neva Trade have combined their vast engineering and manufacturing resources to offer these machines jointly from their facilities in the United States and the Czech Republic.

For detailed application information, call Ogden Enterprises at 704-845-2785

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