



Designs & Builds the

AC LOG CARRIAGE DRIVE

Some of our Satisfied Customers

**TTM Massivholz
Helligenkreuz, Austria**

**Frick Lumber Company
Brimfield, Indiana**

**Kenebec Lumber Company
Solon, Maine**

**Burt Lumber Company
Washington, Georgia**

**Hood Industries
Coushatta, Louisiana
Waynesboro, Mississippi**

**Edwards Wood Products
Marshville, North Carolina**

**Ashton-Lewis Lumber
Gatesville, North Carolina**

**Rock Hill Lumber Company
Culpepper, Virginia**

**AKD Softwoods
Victoria, Australia**

**Superior Lumber Company
McArthur, Ohio**

**HDK Lumber Company
Harrisville, New York**

**Emporium Hardwoods
Emporium, Pennsylvania**

**Washington Alder
Mt. Vernon, Washington**

**Anderson Tully Lumber Company
Vicksburg, Mississippi**



Band Mill Option

*Feed Speed - Interface System
Allows for Optimum Feed Speeds
Increased Recovery & Accuracy*

**State of the art Electric feed for optimum
performance & safety**

**No hydraulic oil to account for, or long exposed
cylinders to maintain. No EPA Problems.**

Most Units Shipped from Stock

- ◆ *Manufactured with top Quality ABB Components*
- ◆ *Bigger, Heaver Shaft*
- ◆ *Less Maintenance - No Brushes or Commutator*
- ◆ *Lowest Energy Consumption
Significant Reductions in Your Electric Bill*
- ◆ *Out Performs Other Available Carriage Drives*
- ◆ *Quick Response Time to Speeds
Acceleration - Deceleration - Start & Stop*
- ◆ *The Jacobson AC Drive Pays for Itself with
Increased Production, Recovery and Savings*



www.jacobsonengineering.com

**Put a Jacobson AC Drive on Your
Mill & Enhance Productivity
& Profit!**



Electric Log Carriage Drive



Visit our website at:
www.jacobsonengineering.com

Jacobson Engineering designs and builds the Electric Log Carriage Drive using state of the art technology from industry leaders. The comprehensive package consists entirely of off the shelf components, combined in specific and unique ways, that yield the necessary application results. In this manner, the customer has the world's finest performing feed made entirely of commercially available components.

The fundamental design of the system has a low inertia motor driving a cable drum through a speed reducer. This configuration insures maximum performance with minimum energy consumption by gaining mechanical advantage through the gear box. The gear box reduces the reflected system inertia by the square of the gear ratio; a 10:1 reducer reduces the system inertia by a factor of one hundred. An overall low inertia system translates directly into a quick acceleration. The low energy consumption with the Jacobson Engineering Electric Feed is due to the regenerative nature of the package. In effect, the system is "borrowing" energy from the utility during carriage acceleration and "returning" that energy during carriage deceleration. The actual energy consumption then, is due to losses and inefficiencies of the motor and power electronics which are over 95% efficient.

Utilizing modern, digital electronic drive components, means accuracy and flexibility which are inherent advantages in the Jacobson Engineering Log Carriage Drive System. Accurate control of all drive parameters allow for maximum performance while minimizing equipment stress. By properly programming in torque/speed rate of rise, torque reversal is cushioned for less gear wear and increased cable life. The temperature of the motor is monitored in real time providing comprehensive thermal protection. These drives come standard with the serial and parallel communications capability and can interface directly with a networks computer, programmable controller, etc., for optimum Headrig operation. The Drive Electronics are housed in a gasketed enclosure with closed circuit air conditioner keeping the electronics cool and clean in the mill environment.

Safety is paramount in all modern Sawmills and the Jacobson Engineering Log Carriage Drive is the safest drive unit on the market. The system utilizes end of track limit switches for slow down and emergency stop which virtually eliminates bumper collisions as experienced by other types of carriage drives (e.g., hydraulic, clutch/brake). Also, the Jacobson Engineering Electric Feed has fail safe dynamic braking to stop the carriage if the utility power supply should fail.

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