AC LOG CARRIAGE DRIVE

Some of our Satisfied Customers

TTM Massivholz
Heligenkreuz, 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
Harrsville, 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

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

www.jacobsonengineering.com

1665 Gwin Road  •  McKinleyville, CA 95551  •  (707)839-5002  •  (707) 839-5094 fax
Electric Log Carriage Drive

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 servos or 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.

Visit our website at: www.jacobsonengineering.com

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