

# LINEAR CARRIAGE SYSTEM



# PAWTAWJOHN

## SERVICES, INC

(208) 687-1478 / [www.pawtaw.com](http://www.pawtaw.com)



# LINEAR CARRIAGE SYSTEM

## Motion Control Systems

### features

- Simple controls
- Customized systems available
- Provisions for a Slabber
- 8" or 10" touch screen is used to input data for system operation, servo loop setup, size tables and special data entry if required

### carriage knee controls

- Auto knee tracking
- Infinite taper for knees
- Dogging controls including cinch back if used
- Hydraulic Lockup Valve and Safety Valve Control
- Independent jog speeds for forward and reverse

### plc/screen features

- Run screen displays status of knees, real time position, target position, trouble messages, log breakdown, cant selected, amount of wood left on carriage and many other features
- Board sizes, cant sizes, slabber sizes, operational limits, servo dynamic values, servo limits, etc., are entered through the touch screen display and saved in the PLC battery back-up ram

### system operation

- Sawing breakdown is determined by the sawyer using a saw line laser as a reference
- This system can be upgraded with a scan system
- Cants can be automatically selected by log diameter
- The operator can easily adapt to the product flow of the mill
- When computing a log, the operator selects a nominal cut and the computer will fill the log with as many nominal cuts as possible and will automatically step down to a lesser size cut until the log is full and the minimum opening face limit is met

### system hardware

- The system control cabinets, operator panel, and j-boxes are pre-wired at the factory
- All cables are labeled and cut pigtailed are left at the terminal blocks of each enclosure
- Rewiring of the enclosures is expedited because the colored wires and pairs are left as they were when tested at the factory.
- Each enclosure has an identifying placard on the front of it
- The operator console overlay is reverse engraved to prevent wear and tear over the years of operation

- Full featured
- Eight board and cant sets
- BOF and MOF solutions

- Independent set speeds
- Mechanical functions controlled by AD Plc Controller
- Adjustable software limits for Dogs Retract, Dogs Extend and Turner Dogs.

- Help menus for trouble shooting, if necessary, are on the touch screen
- Some operational features are displayed on the help screens
- Input/Output status is displayed on the I/O screen.
- ServoSensor status is displayed on screen
- The run screen will also show a trouble message if a problem occurs with the system

- The operator can back stand cants only, half compute a log, manual or full compute a log
- The operator can stack boards for log breakdown, as well as select a cant or multiple cants
- If the operator enters more boards or cants than the log diameter can handle, the operator can still compute the log and the computer will throw out the last entries

- An interconnect cable diagram is provided
- An installation/operation manual is included to cover most operational procedures and installation requirements

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*Provider for Cleereman Carriage Systems*