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PAWTAW JOHN
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Scanning Carriage Systems

Vision Scanning Carriage Control Systems

PTJ 3D scanning carriage system utilizes:

- The flexibility of a Programmable Logic Controller (PLC) for machine control
- An industrial computer for data acquisition
- ServoSensors™ for knee motion control
- Time of Flight (TOF) laser technology for carriage position
- Joe Scan 3D scanner heads for log analysis

Features

- 8 board and 8 cant sets
- 4 species size tables
- MOF, BOF, and manual log breakdown methods
- Cancel taper/cancel cant and motion override buttons
- 2 programmable hot set sizes – 1/4" and 1/8"
- Split hot button – moves knees to the center of whatever wood is left on carriage.
- Log counter
- Memory
- Joe Scan 3D scanner heads with 100base-T connection speed
- Joe Scan scanner heads have a 5-year warranty
- Scans at 12" or 6" centers with accumulated 1" resolution
- Simple mounting and adjustments of scanner heads
- Easy scanner calibration
- If scanner fails, system can still run with the PLC control
- Enclosures are smaller and less hardware used due to the module integration of the control
- Motor Control Start/Stop function for Hydraulic Power Unit
- Proven in industry, the MTS ServoSensor™ motion controller
- LT7 carriage position laser have a high MTBF (Mean Time Between Failure) rating and are readily available from the factory
- Since we use a laser for position of the carriage, no mechanical items are needed and nothing can wear out

- Since a PLC is used, customer specified machine control is possible: For example, saw guide up and down, gate control, log deck interface, and/or log loader control
- DC power requirements for all components are +24 VDC, thus no special power supplies are needed

Industrial PC LCD Monitor Screen

- Standard techniques used throughout the industry
- MOF (Minimum Opening Face) programmed
Selectable none, split, or full taper sawing on all four sides
Four selectable face widths and lengths for all four sides
- BOF (Best Opening Face) programmed
Selectable none, split, or full taper sawing
Adjustable minimum opening face value
- Manual breakdown if wanted
 - Sawyer depresses a board button, the knees move that amount
 - Sawyer depresses a cant button and depresses set, the knees will move to that amount from the saw line
- Cant optimized in solutions
- Grade saw at any time

Additional Features

- Carriage knee controls
- Touch screen features
- Industrial PC LCD monitor screens
- System hardware
- Carriage control hardware
- Operator panel
- Control cabinet
- Industrial PC (Personal Computer)
- PLC
- Laser electronics
- Carriage position monitoring



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