I wanted to take a minute and thank you for a job well done in getting our new Scanner and set-works up and running after the install. Production improved 15% over our cam set-works. Yield has also improved. Please thank your whole team for a job well done.

Bob Williams –
The Ames Companies, Inc.
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
• 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

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

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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