YardMaster**2020**

L U M B E R

### CLOUD-BASED COMPLETE INVENTORY CONTROL SYSTEM

The YardMaster2020 Lumber system is the most comprehensive lumber yard management system available. **And now you can access it from anywhere.**

The Yardmaster 2020 Lumber system (YM2020) fits the specific needs of a full process lumber yard, concentration yard, dry kiln facility or lumber broker, and now all you need to run it is a handheld and an internet connection.

It manages Mill Production – Green Lumber, Load Receiving Reconciliation, Stacker Production, Kiln Management, Destacker, Orders/Shipments, Inventory Reconciliation of yard activities, and much more. From purchased loads to bundle shipments and documents, the YM2020 system and the Hydrus® End Tally™/Chain Tally™ handhelds give sales and management the control to become more efficient and profitable.

Why have over 25 companies already made the switch to YM2020?

- **Only hundreds** to begin, not thousands
- **No server** or outside computer technician needed - cut costs
- **World-wide 24/7 access** to your inventory system with unlimited users and no device restrictions
- **Compatible** with existing handhelds at your yard
- **Bi-weekly training** sessions and user meeting groups
- **Lightning-fast results** regardless of your company's size
- **No fees** for maintenance and support
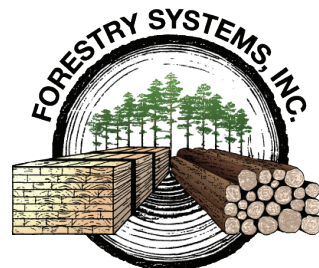
The Hydrus End Tally and Hydrus Chain Tally (sold separately) are the perfect complements to the YardMaster2020 system and are used for length/width and surface measure/grade bundle tallies. They transfer bundle data to the YM2020 system via a wireless signal for real-time data transfer. This ensures you can access your data anywhere, any time when you log into **ym2020.com.**

Stay**Connected**
IN THE OFFICE OR ON THE GO

How does YM2020 keep you connected?

- Accessible for any employee you want on the system

- Use in the office or at home. Your system is completely web-based, so you can access it anywhere you have an internet connection.

- Have multiple yards? You can manage all of them from YM2020.

- No device restrictions. You can access YM2020 on your desktop computer, laptop, tablet, or phone--any device with an internet connection.

General System Features

• Designed for use with the Hydrus End Tally and Hydrus Chain Tally

• Toll Free number for immediate assistance (1-800-868-2559)

• Extensive lumber inventory and process control with a wide assortment of reports

• Supports bar coding and short and long range scanners

• Inventories:
- Domestic surface measure/grade and length/width tallies, estimated and metric
- Estimated stacker layers
- Kiln dried - export length/width piece count tallies

Cloud Features

• Lightning fast processing

• Link multiple employees, yards, and inventories

• Unlimited users, devices, and usage

• World-wide 24/7 access

• Daily automatic backups

• Virtual protection

• Compatible with all FSI handhelds

• 1-Day switchover for existing customers

All of your YM2020-managed data goes straight from your handheld to the cloud, so you can **access and print your data anywhere, any time.**
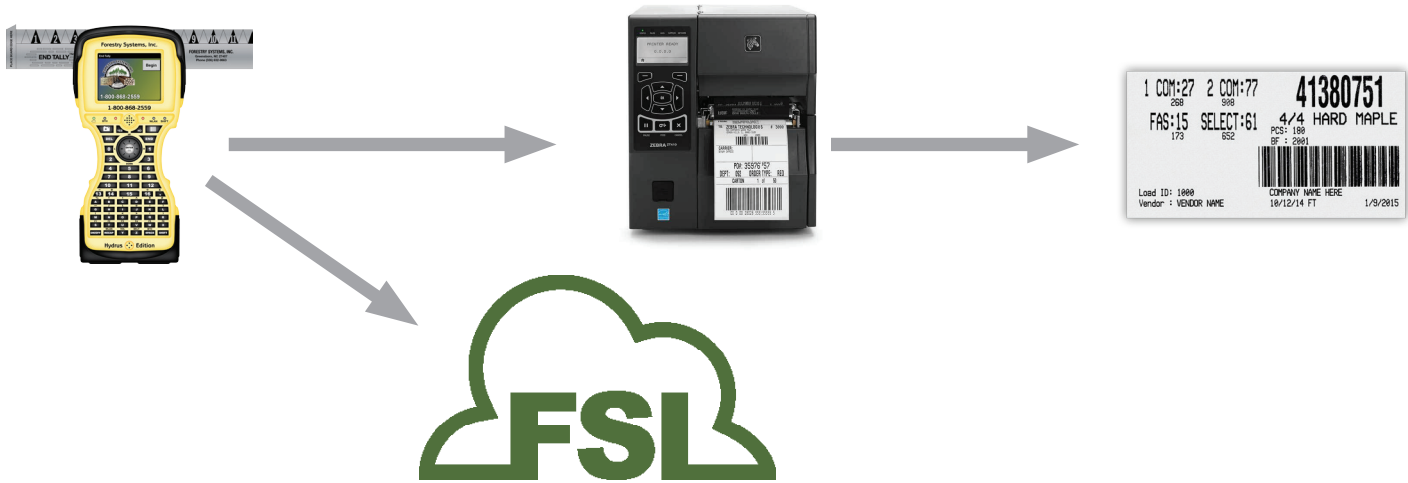
What can the cloud do for you?

The YM2020 system is a modern solution for your company's inventory needs. With this system, you can now keep an eye on your company's data from anywhere. As long as you have an internet connection, YM2020 can make any location into your office. Because this system is cloud-based, there are no limitations on number of users, hardware types, or operating system requirements.

Today, many companies are looking at expanding their expense base for technical services by adding additional employees with technical experience. With YM2020, you no longer have to rely on a technical individual to manage your system. Our cloud-based application provides daily backups, the fastest possible processing speeds, unlimited connectivity, media updates, and immediate technical support. At the base level, all you need is an internet connection and a browser, which enables you to even access your inventory system from your phone and other mobile devices.

The system offers many solutions to help your company keep pace in today's busy marketplace. This system covers almost every aspect of lumber production, including, but not limited to: lumber production, purchasing, inventory control, robust reporting, order entry, shipping, and sales. You no longer have to work around server requirements at your office and you do not have to buy the program more than once per location.

Mill Production - Purchased Loads

The YardMaster2020 Lumber System starts tracking your inventory from the point you receive a vendor load or your own mill's green lumber. There is a vendor load inventory history which is easily reported on and covers all aspects of purchased and mill loads. You may perform a vendor load reconciliation which compares the vendor's tally to the yard's tally of the arrived load for accurate inventory evaluation.

The State of the art Hydrus Chain Tally (sold separately) handheld computer is the perfect match for recording load receiving and green chain operations. Typically these tallies would be surface measure/grade tallies (domestic tally) but may also be length/width/grade piece count tallies.

Inventory control of in-bound green lumber loads is easily managed.

Load History Control and Reporting

• Yardmaster begins to track your inventory when you receive a load of green lumber.

• Verify a vendor's load and print a Vendor Load Reconciliation report.

• Load Reconciliation reports show the differences in grade-footage, piece counts and cost between the vendor's tally and your own yard's tally. The report reflects the percent difference between the two tallies and based on this you may accept, reject or compromise with the vendor about the load

• Total load dollar adjustment

• If green bundles are being tallied while the load is tallied, you may move them into inventory

Green Load/Bundle Costing

• In Process Costing
- YardMaster2020 can apply In Process costing, which allows a yard to have knowledge about a load's cost. Newly created bundles from loads can then carry their originating cost.
- This cost is calculated by the Vendor Load Reconciliation routine and reflects the actual cost of the load's price for each grade that makes up the bundles.
- YardMaster2020 allows an initial cost placed onto bundles not priced from vendor loads.
- You may assign bundles a Mill Cost from a setup table of species and grades from which to cost estimated or Stacker bundles

• Process Costs
- YardMaster2020 allows you to identify a cost (per Unit of Measure/bundle) for processes. You may add additional costs to bundles as the inventory moves from green to kiln dried. This would be reflected in the bundle's current cost.
- Examples such as: Stacking, Destacking, Predrying, Transfers and Kiln Drying
- There is also a customizable processes module for any type of additional process and cost your operation may use.

Air Dried/Predried/Kiln Dried Bundles

Yardmaster excels at tracking your lumber through each process stage from the originating load and green bundles becoming Air Dried, Predried, Kiln Dried, Destacked, Final KD Tally to the eventual shipment and accompanying documents. Bundle locations are also tracked as many operations place bundles in routine locations during or after a process. This allows bundles to be viewed/searched by their process status (GRN,

AD, PD KD etc.), location and by their general inventory status (Available, Reserved or Shipped). Yardmaster has extensive bundle attributes that you may query in any combination to find the inventory you need .

After destacking and end tallying lumber is completed, you may use the PileDown routine. This routine accurately applies the cost of the associated In-process bundles that went into the kiln and were destacked to the newly created KD bundles. This allows the costing of your in-process bundles to be spread to your final KD bundles exactly, without loss.

Bundle Processes/Status/Location

• Default Status and Locations for loading/unloading and deleting kilns and predriers bundle processing. This automates the status and location bundles are assigned during processing

• Lot Reconciliation Routine
      - Allows the reconciliation of estimated bundle footages with the footage of their originating loads
      - This applies footage to your estimated bundles which is very close to the footage of their originating loads
            using (4) methods

• Load/unload predriers

• Stacker production (estimated layer count)

• Load/unload kiln charges with kiln reporting for scheduling

• Destacking (pile down) - Full bundle history by destack date and destacker ID

Costing KD Bundles

• PileDown routine (applying accurate costing to newly tallied KD bundles)
            - The cost of bundles placed into a kiln and destacked is spread to the newly formed (created from the same destacked bundles) KD (length/width) bundles
            - Reconciles between the Grade, Pieces and Footage for bundles loaded into a kiln and destacked versus the Grade, Pieces and Footage of the newly formed KD bundles created from the destacking

• Stock Screen
            - You may think of this Stock Sheet as a snapshot of your inventory's activities
            - Pending shipments
            - Kiln Charges (loadings/unloadings)
            - Inventory volumes summarized by length

Searching Bundle Inventory

Being able to quickly find volume levels of desired inventory for a customer's order or for a physical inventory reconciliation is key to maintaining a yard's operation. Timely and accurate bundle queries are critical to filling an order. The Bundle Request module of YM2020 is the heart of inventory control and manipulation. Yardmaster is designed with these features in mind.

Features
• Quick and comprehensive query ability

- (3) screens of bundle attributes that can be queried in any combination to fine tune your search

- Over 60 searchable bundle traits

- Sales department can find needed inventory fast while talking to the customer

- Yard manager can quickly find over/under stocked inventory levels

- Office manager can run reports based on inventory queries and make more informed decisions

- Corporate management can review yard's production and activity level

- Where multiple yards are involved and many people are accessing the system, secure login and user access to individual functions of Yardmaster are controlled. For example, only those with the proper privileges can be allowed access to the Bundle Query Screens.

• A wide range of ready to use inventory reports along with custom reports the user can modify are available for every request

- Bundle detail reports (showing bundle tally details)

- Bundle summary reports (summarize format)

• Along with general bundle availability (Available, Shipped and Reserved), Yardmaster allows querying by status (ex. GRN, AD, PD, IK, KD) and by any of a bundle's attributes.

• Ability to save queries and recall them instantly.
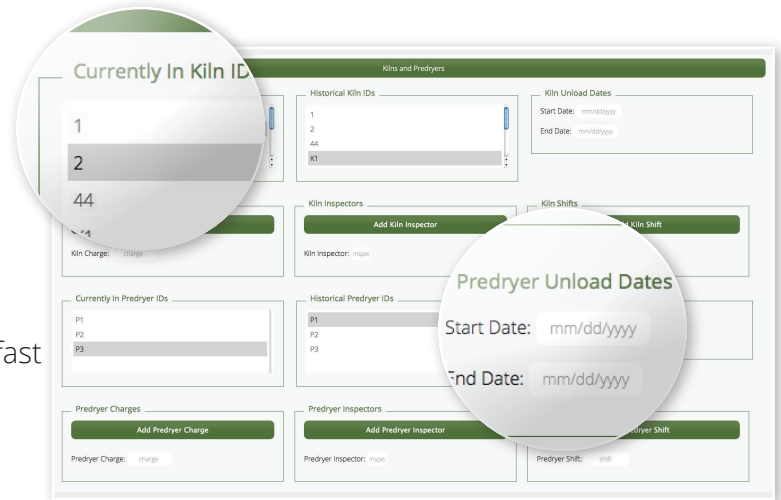
Orders and Shipments

YM2020 also details customer orders and shipments. Sales people may quickly enter orders and search an inventory to evaluate a delivery schedule. Bundles placed on a shipment for an order are marked as Reserved until the shipment is dispatched, then marked as Shipped. Both the Order and Shipment screens contain comprehensive data entry fields. Both screens are interconnected and allow fast access to Yards, Orders, Shipments and Bundle Selections.

Shipping Documents and Shrinkage

- YM2020 will ship any type of bundle inventory
    - Export tally - length/width piece count
    - Domestic tally - surface measure/grade
    - Estimated bundle

- The Order screen allows for Special Instructions pertaining to the Order, viewable by the customer. It also allows for Internal Instructions that are for use only by your company and not printed for a customer to see.

- Multiple ship to addresses for a customer

- Orders may consist of several shipments

- Creating Orders builds a customer order history. Dispatching shipments build a customer's shipment history

- Orders allow you to create a shipment directly from the Order screen

- Shipments allow you to view the Order directly from the Shipments screen

- Adding shrinkage to shipments - You may add any shrinkage percent (ex. 7%) to the bundles for shipment. This calculates the green footage from before kiln drying, back to your bundles using the multiplication or reciprocal division method.

- Letting shrinkage affect the bundle's tally - YM2020 can affect your bundle's tally detail when using a shrinkage percent, rearranging the piece counts within existing widths. This allows the bundle's tally detail to reflect the green footage by adding a shrinkage percent.

- Full shipping documentation

Shipments Screen

Seamless Handheld Integration

YM2020 interfaces with our handheld computers for a seamless transfer and processing of data. Handhelds communicate with the host system by:

• Direct cable connect to a serial port

• Modem connect from a remote site

• Wireless real-lime data transfer at host site

Handheld types:
• Hydrus End Tally. The work horse for kiln dried bundles -Single grade. multiple length - length/width piece count tally (export)

• Hydrus Chain Tally. Green or final grading chain
       - Surface measure, multiple grade - piece count tally (domestic)
       - Available in an export (length/width) tally format
       - Used for vendor load verification
       - Build green bundle inventory

• Hydrus Yard Tally. Total Yard Control. Stacker, Location Change, Load a Predryer, Load a Kiln, Load a Destacker, Load Process, Merge Bundles, Order Picking, Block Tally, Inventory Reconciliation, Bundle Request, Split Bundle, Inventory Request and more. All of these yard processes and tracking can be done by direct connect or by wireless connectivity.

Security

As a program utilized by a variety of users, the need and demand for a secure user/company working environment is readily apparent.

Forestry Systems is well aware of your security concerns. We have devoted a large amount of system design time to implement a secure user login and a robust set of user privileges that allow specific users and yards the right to view or change information in our systems depending on the user's/yard's privileges that your company's administrator has designated.

• User password login protection
• Full user privilege control for every function
• Event History available for user accountability.
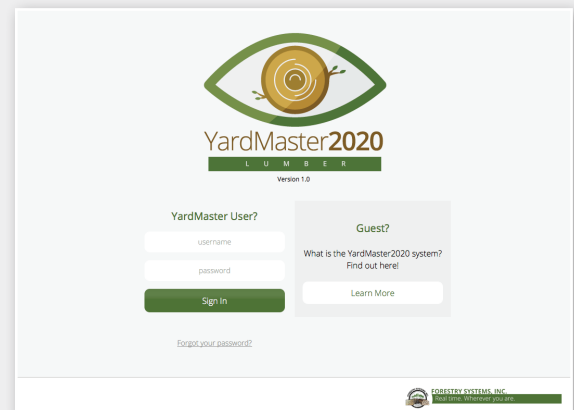
Login Screen

Multi-user/Multi-site (LAN/WAN) Security

• User password protected login

- Your company's systems administrator will setup and maintain a user profile for each employee that accesses the lumber system.

- The user profile consists of a security password in order to login to the system and a set of user privileges that allow/deny access to every function of the system.

• Full user privilege control for every function

- Each user is identified to the system and designated as to which Yard(s) should allow the user access

- There is a complete breakdown of every function in Yardmaster that details availability of a user to:

- View/block designated screens

- Allow/deny editing of data within a screen module

- Allow users to execute specific operations within a screen module

Main Menu

Interface with 3rd Party Software & Devices

Import/export file capabilities to and from 3rd party software and production devices

• YM2020 can export ASCII text files to be loaded into compatible:
- Accounting software
- DataBase software
- Spreadsheet software

• YM2020 can import ASCII text files generated by production devices:
- Automated stacking devices
- Sorters
- Other devices that can generate compatible file formats.

Import/export files will be created according to specifications agreed upon for compatibility.

Lumber Inventory Process Flow

LUMBER PURCHASE

LOAD RECEIVING

GREEN LOAD INVENTORY

LOAD VERIFICATION ← **HANDHELD CHAIN TALLY**

LOAD RECONCILIATION → **PAY VENDORS ASSIGN LOAD COST ASSIGN BUNDLE COST**

STACKER PRODUCTION

GOS INVENTORY (SM/GRADE/LENGTH/ WIDTH ESTIMATED)

AIR DRIED INVENTORY

HANDHELD YARD TALLY

LOAD/UNLOAD FAN SHEDS

LOAD/UNLOAD PREDRIERS

LOAD/UNLOAD KILNS

DESTACKER

KD FINAL GRADING

CREATE LENGTH/WIDTH KD BUNDLES ← **HANDHELD END TALLY**

PILE DOWN RECONCILIATION → **ASSIGN KD BUNDLE COST**

→ **FOOTAGE AND GRADES BETWEEN PRE-KILN TO KD BUNDLES**

KILN DRIED INVENTORY

LUMBER SALES

ORDER ENTRY → **RECEIVE CUSTOMER ORDERS**

CREATE SHIPMENT → **FULL SHIPMENT DOCUMENTS**

→ **ADD SHRINKAGE, AFFECT BUNDLE, TALLY DETAIL**

DISPATCH ORDER SHIPMENTS → **UNTIL ORDER FILLED**

PURGE OLD ACTIVITIES → **SHIPPED BUNDLES REMOVED FROM INVENTORY**

HISTORICAL REPORTING

ACCOUNTING INTERFACE → **APPLICABLE TO ALL KEY POINTS**