## BellHawk Data Sheet
BellHawk ETO Equipment Tracking Option

The equipment/line tracking option (ETO) module adds the following capabilities to the BellHawk Job and Materials Tracking System (JMTS):

1. Ability to track the setup, run, and cleanup times and associated labor hours for equipment, production lines, and machines used on work order route steps or operations.

2. Ability to view the status of equipment in real-time including which work orders they are running.

3. Ability to track when equipment goes down and for what reason. Also, the ability to track when equipment is down for maintenance.

4. Capture of which equipment is used for which jobs along with the ability to capture operating parameters as part of the materials traceability history record.

5. Ability to include the cost of machines as part of work order and product cost.

6. Ability to allocate the time and cost of materials, machine, and labor costs across multiple work orders run at the same time on the same machine, production line, or piece of equipment.

7. Simplification of operator recording of a sequence of work orders run on the same machine.
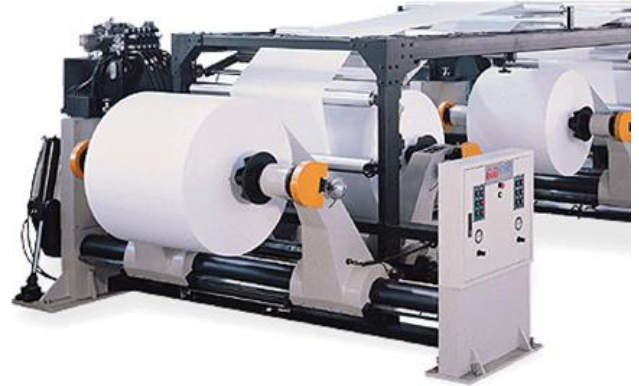
Equipment operators or teams are able to scan into one or more pieces of equipment, machines, or production lines at the beginning of their shift and then scan a sequence of work orders onto and off of the equipment, machine or line. Their labor is then appropriately allocated across all the work orders they work on while running these machines as is the machine time and the materials consumed in the run-group.

ETO is ideal for allocating costs and performing materials traceability when multiple jobs are run at the same time on a common machine, such as in converting rolls of material, or cutting parts for multiple jobs from sheets of steel or wood.

ETO is also an excellent starting point for integration with process control systems. With the user defined parameters capability of BellHawk, the operating parameters for machines and other equipment can be specified as part of the work-order step or operation setup data. This data can then be read by the process control equipment and used to control the operational process.

Operating conditions, along with statistical process control summary parameters can then be sent to BellHawk to be stored as part of the materials tracking and traceability data for individual products or batches of products. This data can also be integrated with the Quality Control tracking capabilities of BellHawk.