

MACHINE PRODUCT BRIEF | SEPTEMBER 17, 2013

Enhanced Optical Scanning

Batching Systems, Inc., a leading provider of component counting systems, has paired its latest development in optical scanning with B&R controls to provide enhanced systems solutions to its customers. This development allows for counting and batching of heavier products such as hardware, without machine faults, before dispensing these products from the counting equipment. A large, single user-friendly color graphics touchscreen with intuitive set-up, data monitoring, and diagnostics combines control, visualization and motion control technology in one device. It can be easily connected to various automation infrastructures as well as the internet for remote access, enhancing machinery performance as well as diagnostics and troubleshooting.

The challenge was to be able to scale industry solutions to the performance level required by end-users of counting and packaging equipment handling an array of products such as hardware, toys, and foodstuff in a wide range of shapes, sizes, and differing fragility. Optimizing the performance of the new scanner to batch count, pre-accumulate counted product, reject out-of-tolerance product, and dispense accurately completed batch counts of product simultaneously into a primary or secondary packaging machine from single to 30+ counter system required increased computing speed and power.

Selecting B&R controls allowed for real-time data acquisition and transmission via Modbus and/or CANopen serial communication used in the Batching Systems, Inc. machines. Additionally, the B&R software allows for the programming of motors, controller, and visualization screens eliminating the need to use multiple software packages when configuring a system. The communication protocols used provide support for network management, device monitoring and communication between components / nodes on these networks.

One such component is the B&R stepper motor with incremental encoder selected and incorporated for use in the latest machine design providing twenty-five percent higher torque with half the voltage requirements than those previously used. This allows for counting and batching of heavier products such as hardware, without machine faults, before dispensing these products from the counting equipment.

The B&R Power Panel selected provides a large single user-friendly color graphics touchscreen with intuitive set-up, data monitoring, and diagnostics. It combines control, visualization and motion control technology in one device and can be easily connected to various automation infrastructures as well as the internet for remote access. Providing remote access further allows software upgrades to enhance machinery performance as well as diagnostics and troubleshooting – all customer advantages in today's industrial world.


Visit Batching Systems, Inc. to see this optical scanning technology at PACK EXPO booth #1718 in the Central Hall.

www.batchingsystems.com/

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