



bransystems

Brilliant IT and Automation Solutions

CONVEYOR SYSTEM & PACKING SCALE

INFORMATION SHEET



CONTACT

sales@bransystems.co.za

041 582 1140

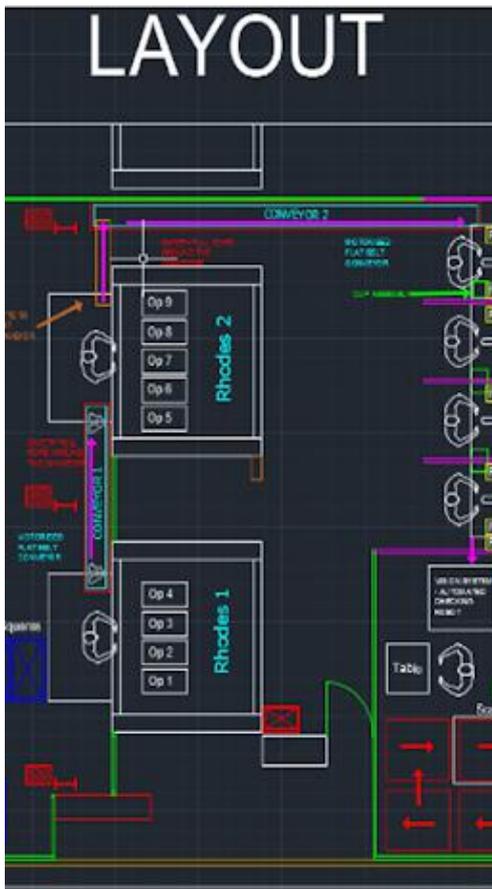
www.bransystems.co.za

BESPOKE LIMITED ENTRY STATION

Saving our client time and running costs

BranSystems assisted a manufacturing company with the design and creation of a limited entry station for one of their products. This station entails that the area is blocked off from the rest of the factory utilizing a fence (done by BranSystems). Two fully automated conveyors were built to carry parts between the presses and to the riveting station. The conveyors are triggered using proxies, one at the start to pick up the addition of the part and the second in the end to signal the parts arrival and to stop the system. This ensured that the running time on the conveyors be cut down to only when they are needed thus cutting in electrical costs. Included was a CAT 4 safety system. Also, an Automated Weighing and Barcode label printing system was supplied. Parts are loaded into a box and depending on the part number being packed, the weights and quantities are pulled from a database such that when the box reaches its desired weight, two barcode labels are generated and the system triggers an output to take it to the next phase. The barcode label component is designed to work with multiple labels and multiple label printers and is fully user configurable.





BUSINESS CHALLENGES

In manufacturing, different problems and opportunities demand different solutions - what worked a year ago might now be not the best approach. Manufacturers also need to make sure they can keep up with the competition, and installing an automated system will increase production, as well as cut down on running costs. However, automation is a complex process that covers a wide variety of systems to ensure that materials, equipment, and human resources are available when and where they are needed. The company can accomplish this by optimizing the production process through automation.

Key Features

- Only the correct amount of parts can be packed.
- The software accurately weighs the products packed and allows for precise packaging.
- Printing can only be done once the pre-set requirements are met.
- Fencing allows better control and limited access to the area.
- The CAT 4 safety system ensures that all machine safety requirements are met.
- Production time and costs are reduced.

CUSTOMER BENEFITS

2 Belt Conveyors:

- The system was designed for single piece flow to reduce scrap and improve WIP handling.
- The conveyors make it effortless to transfer the parts to the next stages without needing extra personnel.
- The motorized conveyors also make the cell as a whole look very professional.
- Custom built on wheels. Modular system which makes it easy to modify.
- Fully compliant with all safety requirements.

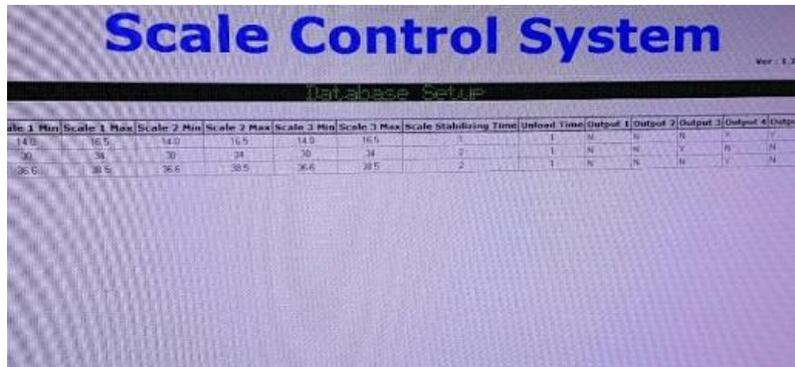
Infeed Roller Conveyors for Brackets:

- The system was designed for single piece flow to reduce scrap and improve WIP handling.
- The roller conveyors make it easy for the operators to reach the loose components for assembly.
- 2nd level to put the empty box so that the cell stays neat and tidy. Brackets / loose components are loaded from the back of the cell with the use of the department's runner.

Scale System / Packaging Area:

- The scale system conveyor/packaging area provides a secure area for the quality of the part to be inspected correctly.
- Empty boxes are fed in using gravity feed and the packer/inspector has full control of the flow of parts.
- The scale system weighs the box and prints labels to seal the box with the operator's details.
- The scale system software was developed specifically for this purpose and is fully customizable.
- Packed and sealed boxes exit the packaging area via a gravity feed roller conveyor.
- Can be transformed into a motorized roller conveyor in the future if this is needed.

REFERENCE IMAGES



LAYOUT

