

Smart-Idler®

Case study

Company

Roller manufacturer

Location

South America

Manufacturing

This was done in a laboratory, as it was the

shafts, inserting the stators in position, and then locating the sensors in the cut-outs.

After preparing the shafts, these were introduced inside the roller bodies and assembled with bearings, and sealing components, taking care not to damage the wires attached to the shaft body.

Testing

To test a roller, it is required to have adequate hardware. For this, Vayeron has developed an End of Line unit (EOL). This is a user-friendly device that contains the equipment required to capture a signal of a spinning roller, and print a label to attach to every passing unit.

At the moment of the integration, the roller manufacturer did not have an EOL, so the units were sent to Vayeron headquarters for testing.

After the rollers were spun, it showed a successful result, the signal strength was good, and it captured the values coming from the sensors.

Results

The integration and validation exercise

processes were conducted appropriately, the new component was integrating satisfactorily and that the integration procedure was low impact and seamless. This allowed the roller manufacturing company to prepare for a larger assembly.

Some of the outcomes that were pointed out

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- The shaft manufacturing procedure must be adapted for the new requirements
- It is required to adapt the manufacturing line for assembling Smart-Rollers
- A training program needs to be run, as the assembling process must be conducted by done with the support of Vayeron
- The smart idler assembling line must be developed in a way that assures ergonomic safe conditions for operators, as well as
- Vayeron's End of Line (EOL) testing equipment should be made available at the end of the manufacturing line