

Biomass Handling Interface Mini™

Industry: Natural Resources

Summary

Customer Challenge

Biomass refers to natural resources that can be used as renewable energy. In the forestry industry, wood, branches, twigs, logs, and leaves can all be converted into a renewable form used for heating or power generation. A weighing system is needed to measure forestry biomass to ensure consistent processing.

Interface Solution

Interface suggests using the PBLC Pillow Block Load Bearing Load Cells on the conveyor belts that are used to transfer the biomass chips and other wood agriculture in forestry. The PBLC's measure and monitor the force of the conveyor belt, while preventing misalignment. When connected to the 920i Programmable Weight Indicator and Controller, the customer can see the total weight of the biomass being transported.

Results

The PBLC Pillow Block Load Cells successfully maintained the proper alignment of the conveyor belt for the biomass wood chips being transported, while also monitoring the forces being implemented.

Materials

- PBLC Pillow Block Load Bearing Load Cells
- 920i Programmable Weight Indicator and Controller

How It Works

1. The PBLC Pillow Block Load Bearing Load Cells are installed at the wheels at each end of the conveyor belt.
2. When connected to the 920i Programmable Weight Indicator and Controller, the customer can see the weight for every pillow block or the total weight of the biomass being transported.
3. The PBLC Pillow Block Load Bearing Load Cells also maintain the proper alignment of the conveyor belts, reducing damage or malfunctions during operations. The 920i can communicate to the customer's control center via RS232 if a possible error is detected.

