The outcome

The compact Danfoss VF“ AutomationDrive FC 302 remains available in 39 drives to serve any grinding machine with complete components, electromagnetic compatibility filters or chokes visible.

“Danfoss VLT AutomationDrive FC 302 supports our high-pressure grinding machines but most importantly it enables us to reduce energy consumption and operating costs.”

Stefan Fischer, Head of Electrical Design at WEBER

Small but mighty efficient

Case story | VLT AutomationDrive FC 302

Callout 1:

The solution

Up to 13 VLT® drives were installed in different applications in the grinding machines.

Sanding unit: The drive controls the speed of the grinding belts and brushes via PROFINET.

Position controller: Using Integrated Motion Controller functionality available within the VLT® AutomationDrive FC 302, the drive can process the position cycles independently.

No external position controller is required.

Vacuum table: A Danfoss drive is located within the vacuum table, which uses suction to hold the product in place on the conveyor belt to guarantee maximum precision and safety during the grinding process.

Conveyor belt: A feed motor drives the circulating conveyor belt, while a Danfoss drive ensures minimal speed fluctuations when different product loads travel through the machine.

Eco Drive system: Danfoss drives automatically recognize the load and regulate the optimal range of action. This enables energy savings of around 15%.

The Danfoss VLT AutomationDrive FC 302 supports our high-pressure grinding machines but most importantly it enables us to reduce energy consumption and operating costs.

Stefan Fischer, Head of Electrical Design at WEBER