



Albrecht textile machines make the grade with Danfoss

Albrecht Equipamentos Industriais Limited is a leading manufacturer of textile machines located in Joinville, Santa Catarina, Brazil.

This OEM turns to Danfoss VLT® AutomationDrive technology for the machines it produces for domestic and export markets.

Albrecht makes machinery to customer order for textile processing, from washing and bleaching and mercerizing to dyeing. Precision speed, torque control and synchronization are key to producing quality fabrics, which is where Danfoss VLT AutomationDrives come in. For the past decade Albrecht has been installing Danfoss frequency converters in its machines to help its customers achieve higher quality, greater productivity and energy efficiency.

Precise control every step of the way

Preparing fabric for sale involves many sequential steps – it first must be prepared, then dyed, then dried. Various equipment modules are typically mounted in a linear setup according to the customer's specifications.

In the dyeing process the fabric moves in a continuous roll as it passes through several dye baths of increased intensity. After each dye bath the fabric is steamed and wrung through rollers until the desired color is achieved. Throughout the dyeing process it is essential that the fabric tension is kept consistent as it moves through the rollers to avoid damaging the product. This requires maintaining precise speed and torque control and synchronizing the motors that run the cylinders, all of which is achieved with VLT® AutomationDrives. In the dyeing process, drives also control the water pumps and ensure proper control of the tint dosing for the dye baths.

The VLT® AutomationDrive is perfectly suited to the needs and conditions within a textile factory. It is designed for high performance applications and operates dependably in demanding environments, like high temperatures and humid, dusty and aggressive conditions. The modular drive is also easy to mount and dismount and is easy to service. The various drives on a system are controlled through a user-friendly PLC. The drives also save at least 20 percent energy and avoid production stops.

VLT® drives are also installed in other Albrecht equipment, including machines to stretch, mercerize, cool and inspect the fabric. To ensure optimal control of its numerous machine lines, Albrecht uses a high quantity of Danfoss drives. The VLT® AutomationDrive is another way in which Albrecht is leading the way in textile technology.