

Recent technology of nozzle centrifuges in the ethanol production from sugarcane

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Abstract

The use of self-cleaning nozzle centrifuges in the ethanol production from sugarcane

Starting in the 70's Brazil has always been taken over global leadership in the production of ethanol from sugarcane juice. Since then process technology and equipment had to be constantly improved aiming optimizing yields and attending the huge local and more recently global hunger for Biofuels. Since the very beginning GEA Westfalia Separator has been actively developing its centrifuge portfolio to be present in this "looking for the state-of-the-art" quest. From original smaller ordinary manually-cleaned nozzles centrifuges up the current fully-automatic-operated equipment, GEA Westfalia Separator is also consolidating its leadership in being constantly presenting innovative technologies to the market. This paper will give an overview of the current most disseminated process in the production of ethanol from sugar cane in Brazil and will explain in details how the self-cleaning centrifuge is helping already major global players improving their efficiencies.

BIOGRAPHY, SHORT SKETCH

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Food Engineering Graduated in 1999 in the State University of Campinas (UNICAMP), Daniel works since 1998 for GEA Westfalia Separator subsidiary in Brazil, situated in the city of Campinas. In his carrier Daniel has been developing and selling customized application of centrifuges according to local customer demands. Bio-ethanol, starches from corn and manioc, soy protein, yeast, yeast extract and mining are the areas of main expertise. Today Daniel is sales manager for the Brazilian territory for part of the "Process Division" which comprehends the a.m. areas and Dairy, Beverage, Chemistry/Pharmacy/Extraction, 2nd Generation Bio-ethanol, and Renewable Resources Business Units.