

Title (en)
CONTINUOUS ROLLING MACHINE WITH A FLEXIBLE HOT PRESSBOARD

Title (de)
KONTINUIERLICH ARBEITENDES WALZWERK MIT HEISSPRESSPLATTE

Title (fr)
MACHINE DE LAMINAGE CONTINU AVEC PLAQUE DE PRESSION CHAUDE ET SOUPLE

Publication
EP 2420367 A1 20120222 (EN)

Application
EP 09843243 A 20091206

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Abstract (en)
This invention publishes a type of continuous roller press with flexible heating plate. Driving drum, tension drum and guiding drum are installed on the press frame forming a triangle shape. A main pressing drum is installed in between the driving drum and the guiding drum. The main press drum and the guiding drum constitute the first pressure application mechanism of the press. The circular steel belt cinctures the guiding drum, the main press drum, the driving drum and the tension drum so that a closed heat transfer and driving mechanism is formed. The steel belt transfers the driving force from the driving drum to the other drums to drive all the other drums. The whole system transfers the heat and pressure to the mat. The flexible heating plate is installed at the opposite side of the steel belt against the main driving drum. Hydraulic cylinders installing on the outside of the heating plate apply pressures to the mat through the roller rods and the steel belt. The mat temperature, the pressure applied on the mat and the thickness of the mat can be adjusted according to the process. The density profiles of the panels at the thickness direction can be easily adjusted either to get high density layers on the panel surfaces or to get an even density profile across the panel thickness. The purpose to adjust the density profile is to reach required panel properties according to the application of the panels.

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