



WOOD PRODUCTS MDF DIRECT DRYING AND POWER KASTAMONU ENTEGRE

OWNER

Kastamonu Entegre

LOCATION

Turkey

PRODUCT

**Taurus 70 (7.5 MWE) and
Taurus 60 (5.5 MWE) Gas Turbines**

CUSTOMER VALUE

Sustainability

The Kastamonu Entegre Gebze plant, part of the Kastamonu Group - one of the first wood panel producers – implemented a state-of-the-art energy management systems for its MDF lines.

Kastamonu Entegre uses one Taurus™ 60 gas turbine on each of its two MDF lines to produce both the plant electrical energy and the thermal energy needed for fiber drying.

Exhaust from the gas turbine is injected directly into the dryer tube without the need of a heat exchanger.

Solar® Turbines

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Wood Products – MDF Direct Drying and Power



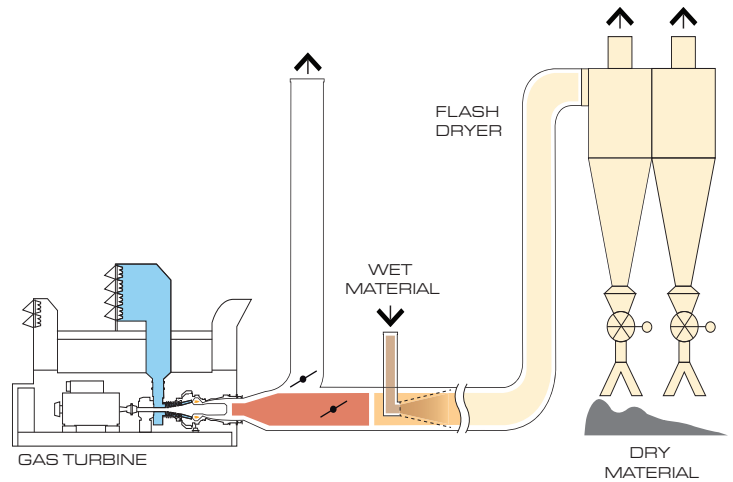
PLANT DATA

One Taurus 70 (7.5 MWe) and Two Taurus 60 (5.5 MWe) Gas Turbines

Flash Dryers

Thermal Oil Boiler

Natural Gas Fuel



OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliary Supply

Gas Turbine Design

Installation and Commissioning

Preventive Maintenance Agreement and BUOA including EHM

COST EFFICIENT SOLUTION

REDUCED EMISSIONS

QUICK RETURN ON INVESTMENT

NATIONAL GRID INDEPENDENCE

In order to optimize the energy cost of the thermal oil presses, Kastamonu Entegre installed a thermal oil combined heat and power (CHP) plant based on a Taurus 70 gas turbine generator set. With the gas turbine's direct drying/CHP systems, nearly all requirement for natural gas burners was eliminated, reducing the Gebze plant carbon footprint, reaching very high overall energy efficiency (well above 80%), and providing significant savings.

The preventive maintenance agreement and the proactive, technology-based equipment health management program powered by the state-of-the-art InSight Platform™, enable the Kastamonu Entegre Gebze plant to meet the high reliability and availability standards required for its production. Besides the savings, the company has the ability to produce the plant's electrical power onsite, thus avoiding the impact of national grid outages.

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