DIEFFENBACHER

Wood-based Panel Plants
Pellet Plants

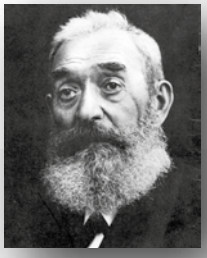
INNOVATION IS IN OUR GENES – SINCE 1873

THE BEGINNINGS

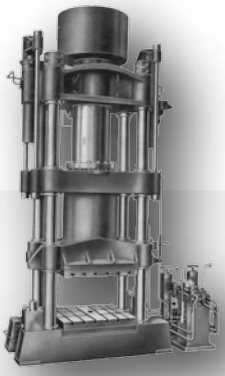
Dieffenbacher was founded in 1873 by 26-year-old Jakob Dieffenbacher as a small machine shop that performed forging and fitting work to meet the regional demand. Toward the end of the 19th century, it began to make its first series products, including cash boxes, safes, stoves, and ovens. Before the start of the First World War, his sons Wilhelm and Friedrich Dieffenbacher expanded the product range to include industrial goods. Driven by the flourishing agricultural industry, the company also manufactured hydraulic oil presses and fruit presses. The brothers ensured the company made a swift recovery after the First World War and went on to expand their oil press business. In the 1920s and 1930s, Dieffenbacher made a name for itself both at home and abroad by supplying entire plants for processing edible oils.

BETWEEN THE WARS

The brothers' courage and ingenuity saved Dieffenbacher from ruin during the global economic crisis in 1928. By developing new products both before and after the Second World War, they laid the foundations for the success that Dieffenbacher currently enjoys. In 1928, it marketed its first hydraulic Bakelite press for the plastics industry. The 1930s saw the introduction of the first multi-opening heating platen presses, which were used to produce wood-based panels, i.e. plywood.



1873
Founded by
Jakob Dieffenbacher

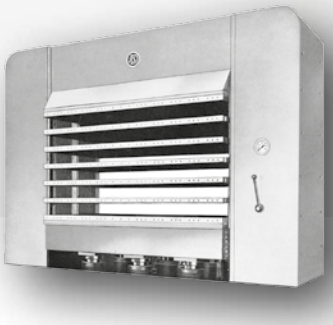


1928
First hydraulic
Bakelite press

1990
First continuous
press delivered

1873 1998

Around 1910
Hydraulic oil presses
and fruit presses



1954
First multi-opening
press delivered

1998
Acquisition of the
Schenck Panel Production
Systems

GERMAN ECONOMIC MIRACLE

In the mid-1950s, the third generation of the family, Albert and Gerhard Dieffenbacher, took over the company. They soon celebrated their first successes with Bakelite presses and thermoplastic injection molding machines. They also brought their first metal presses for deep drawing and cold extrusion processes to the market. The 1960s saw a major boom in the wood sector. During this period, the company's recently added line of particle board presses along with its plywood and veneer presses lead to success in the export market. Due to concerns of an over-dependency on suppliers, a number of auxiliary products were developed, such as coating and decorative press systems, as well as laminating presses. Multi-opening and single-opening particle board presses became core products of Dieffenbacher.

BECOMING A GLOBAL PLAYER

In 1990, Dieffenbacher unveiled its first continuous press, heralding a new era for the company. Great grandson Wolf-Gerd Dieffenbacher turned the global press manufacturer into an international supplier of complete plants. Dieffenbacher rounded out its product range through company formations and strategic takeovers and now supplies complete plants for manufacturing wood-based panels to customers around the world. Welt. Twenty-five years after the first CPS continuous press, Dieffenbacher has completely reworked the design, creating a new generation of presses with the CPS+.

2003
Acquisition of SCHENKMANN-PIEL-Engineering GmbH

2008
First wood fiber insulation board plants

2012
First pellet plant

2000

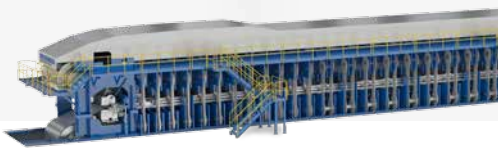
2007
First energy plants

2008
Acquisition of certain panel-board operations from Metso: New subsidiaries in Nastola, Finland and Sundsvall, Sweden

2009
Majority shareholder of Shanghai Wood Based Panel Machinery Co., Ltd.

2015

2015
New continuous press CPS+



COMPLETE PLANTS

PRODUCT EXPERTISE

Research and Development to Reduce Production Costs

By investing heavily in research and development, we drive the continuous development of new, innovative solutions in panel production. Each machine we deliver also provides valuable experience that is used to support the ongoing refinement of our well-proven technology. Our central product development department works closely with research centers and customers to test alternative materials, research new methods and analyze and adopt technologies from other industrial sectors.

GUIDE REDUCING COSTS

ENERGY GENERATION
- Energy generation with combined heat and power
- Use of biomass

AUTOMATION
- Modern automation systems

GLUING
- EVOjet M
- EVOjet P
- PROjet

WOOD
- Lightweight panel technology
- Use of recycled wood

FROMING LINE
- Forming concepts that save on materials
- Integrated test instrumentation

PRESSES
- CPS+ with minimal tolerances
- CPS+ for lightweight panels

Production costs **prior** to optimization

Production costs **after** optimization

* Savings are based on our experience of various customer plants and can vary with the general circumstances of each case.

PLANNING OVERALL PLANTS

Partnership from the Design Phase to Start-up

1800 Dieffenbacher employees around the world work hand in hand in order to ensure your project is completed accurately and on schedule. Whether you are planning an entirely new plant or wish to modernize an existing plant, Dieffenbacher is your ideal partner. From the first advisory services to overall schedule planning, including financing, our experienced teams of experts and project managers can offer you complete system concepts to secure your investment.

PLANT PLANNING

Our 3D plant planning tools give us greater planning security and enable us to examine a complete plant even before work starts.

INSTALLATION AND SITE SUPERVISION

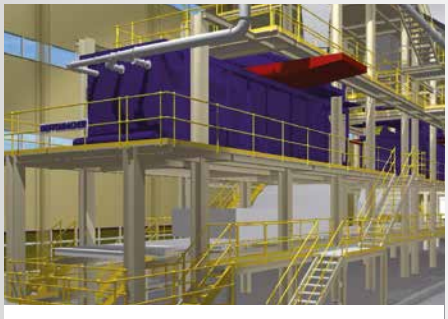
Our construction site teams have experienced working in many different cultures. Whether in the Siberian tundra or the subtropical rain forest, they keep a cool head at all times, even under time pressure and tough conditions.

START-UP

We will continue to support you even after the First Board is produced. The project manager will only hand the plant over to you once our technicians have finished optimizing it for continuous operation.

HOW YOU BENEFIT

- All core components produced within the Dieffenbacher Group
- Complete process expertise
- High level of investment in R&D
- Motivated employees



Forming station in an OSB plant from planning...

...to reality

First Board

AUTOMATION AND MEASUREMENT TECHNOLOGY

Optimal Plant Operation Assured

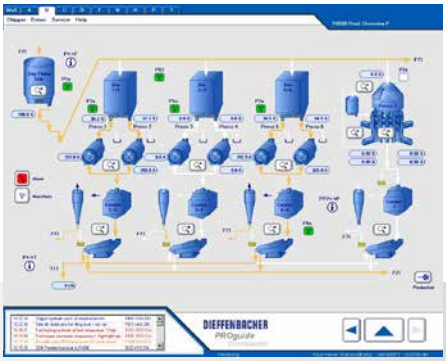
Delivering and start-up of an entire wood based panel or pellet plant requires more than simply supplying the individual machines. At the customer's request, the Dieffenbacher Group not only delivers everything from a single source, but also takes responsibility for the complete automation process across the entire plant — from processing raw materials to the finished product. Our engineers are equally familiar with production technologies, process systems and automation, and will take your requirements as a starting point for creating a high-performance overall system that will allow economical and scalable production.

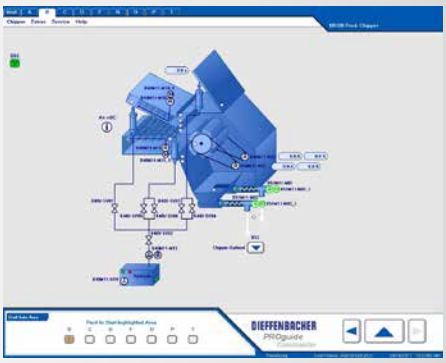
With the modular Proguide/Prodacon control system, you can control, monitor, analyze and optimize your entire production process with complete certainty. The ProguideCommander displays the entire process on a large screen and allows all screens and video signals to be configured as required.

TECHNOLOGY AND EXPERIENCE

- Broad range of expertise of Siemens and Rockwell
- Clear visualization
- Simple dialog structure
- Fully automated order processing
- Online maintenance system

The ProguideCommander keeps everything in view





FUTURE-PROOF THANKS TO LATEST STANDARDS IN INDUSTRIAL AUTOMATION

As of 2013, Dieffenbacher has become one of the first industrial companies in the world to use the SIMATIC S7-1500 automation system. By using the latest generation of the automation system from Siemens, Dieffenbacher has increased the performance of its plant control solutions enormously. The considerably shorter response times compared to earlier design series have resulted in even more precise process control and, in turn, even higher product quality. In addition, the new system has improved plant efficiency thanks, for example, to the integrated diagnostic systems and a consistent display concept. What's more, with built-in security features to protect against unauthorized access and manipulation, your expertise will now be even more secure.

At the same time, Dieffenbacher is also working closely with Rockwell Automation to develop a new generation of control systems for customers with Allen-Bradley automation. New and significantly more powerful processors and a completely revised I/O-system will also lead to significant improvements in the process. For a significant period of time, Dieffenbacher has been using the broadband Ethernet-based field bus system „EtherneтIP", which is the basis of fast communication in plant automation.

MEASUREMENT TECHNOLOGY FOR IMPROVED PRODUCT QUALITY

Using integrated measurement technology offers further potential for reducing panel production costs. The benefits are clear. Shorter closed loop controlled systems reduce the amount of rejects at start-up and minimize spreading deviations lengthwise in the mat. Measured values are displayed directly in the process control system without interim calculations or rounding in external measuring systems, and provide a much more accurate picture for process analysis and monitoring.

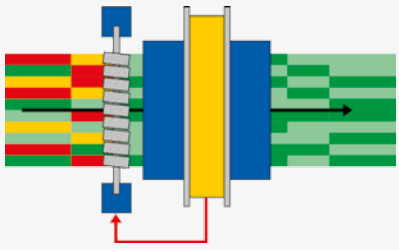
ADVANTAGES OF INTEGRATED MEASUREMENT TECHNOLOGY

- Self-optimizing control
- Shorter closed loop controlled systems
- No interface problems thanks to integration of measurement technology into process control system
- Better process analysis through simultaneous display of measured data and process data

Integrated Measurement Technology: Formator

Segmented high-speed Scalper reduces area weight deviations crosswise

Dieffensor senses area densities crosswise and lengthwise with high resolution



Combination is the Formator: Closed loop, acting automatically without operator

WOOD PREPARATION

LOGYARD

Professional Solutions for OSB, PB, MDF and Pellet Plants

Through its „Logyard Alliance“ with Holtec and the cooperation with Kadant Carmanah, Dieffenbacher has expanded its product range and now offers a complete wood based panel plant solution from log to panel. Holtec, an experienced supplier of logyards, works closely with Dieffenbacher to plan and implement robust woodyards for OSB, particleboard, pellet and MDF plants that are tailored precisely to the customer's requirements. From the complete logyard with debarking, log conditioning unit, OSB strander and chipper right through to the waste disposal concept, you can now find everything at one single source.

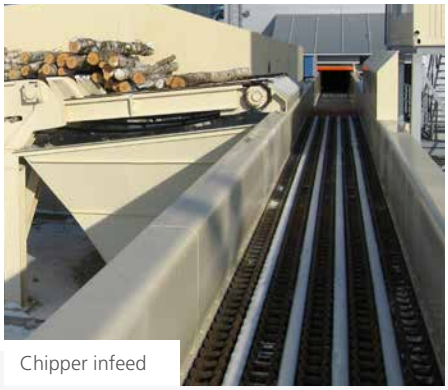
PRODUCT RANGE

- Log handling
- Conveyor systems
- Debarking
- Log conditioning units
- OSB strander
- Chipper

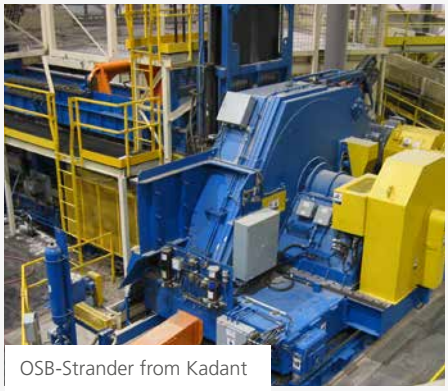
Logyard

LOGYARD*Alliance*

DIEFFENBACHER HOLTEC



Chipper infeed



OSB-Strander from Kadant

SIZE REDUCTION TECHNOLOGY

Machines for an Economical Wood Preparation

Dieffenbacher supplies a complete range of in-house size reduction technologies. From log debarking to production of strands, particles and fibers, Dieffenbacher offers the appropriate size reduction machine.

PORTFOLIO
SIZE REDUCTION TECHNOLOGY

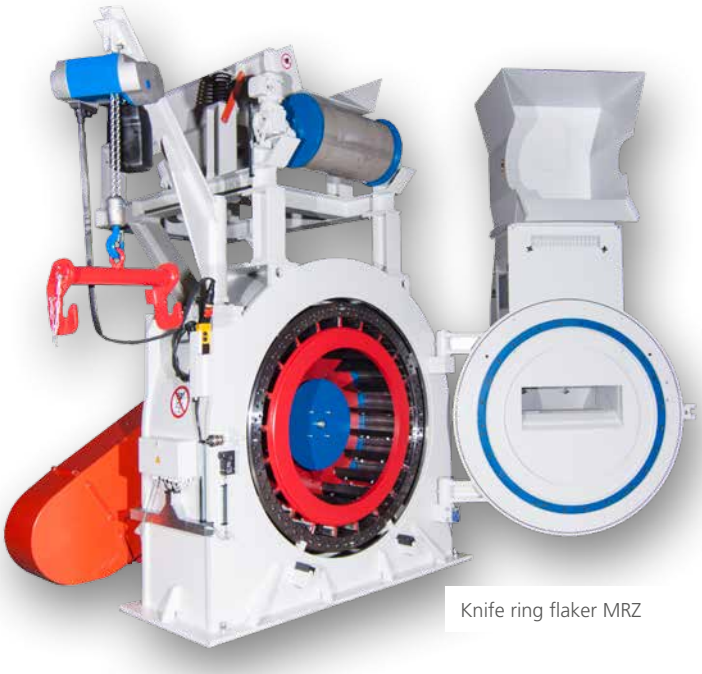
- Crusher
- Chipper
- Beating rotor
- Impact mill
- Knife ring flaker
- ClassiSizer

VARIABLE INPUT — PRECISE OUTPUT

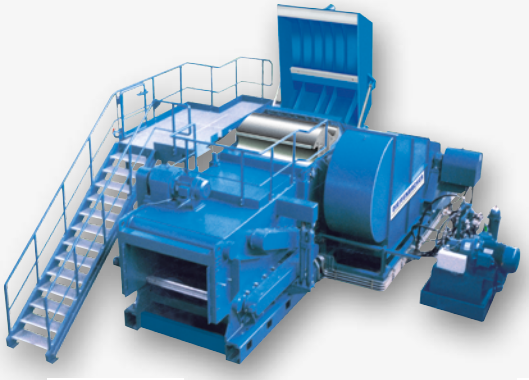
The Dieffenbacher Knife Ring Flaker MRZ is a high-performance machine for the production of high-quality flakes for wood-based panels and pellets. The material is cut into flat, uniform flakes in a rotating flaking chamber with a fixed-blade knife ring. A high-speed version of the machine produces extra-thin flakes for ultra high-density surfaces, which are suitable for direct varnishing.

BENEFITS
KNIFE RING FLAKER MRZ

- Low energy consumption
- Constant uniform high-quality flakes
- Thickness adjustable
- Wear-protected
- Automatic knife ring grinding system available



Knife ring flaker MRZ



Chipper HRL

Beating rotor SRH

Impact Mill MPM

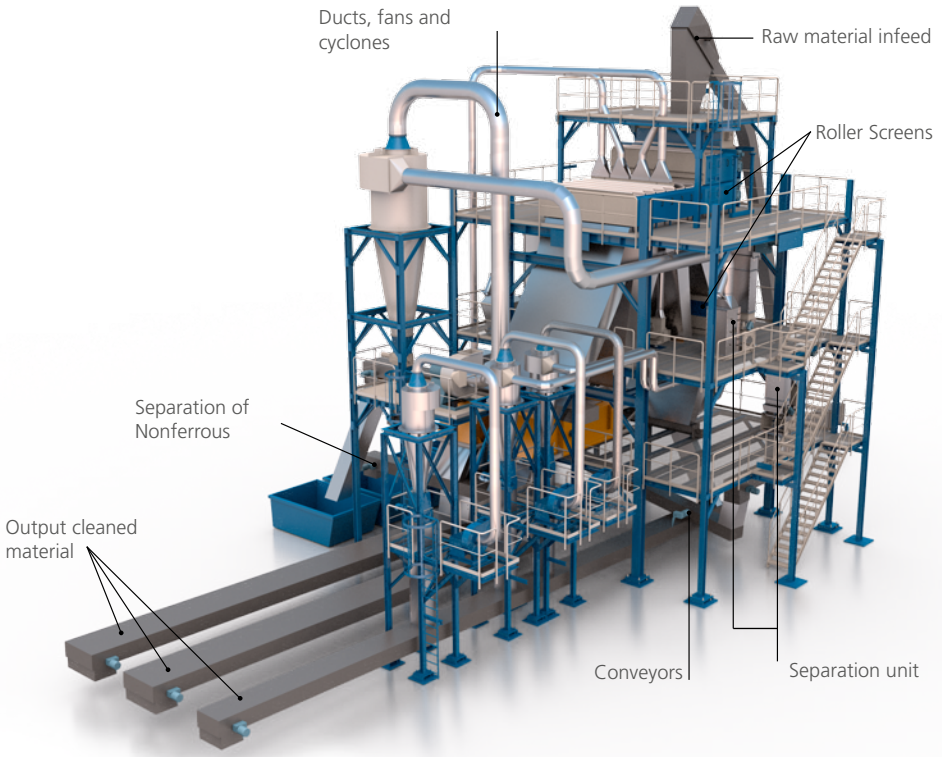
SCREENING AND CLEANING

2in1 - ClassiCleaner

The Dieffenbacher ClassiCleaner is a screening and cleaning device in one unit that cleans chips of all kinds. The ClassiCleaner offers impressive versatility, particularly when used with recycled wood. It reliably removes earth, bark, sand, stones, glass, porcelain, metals, plastics and unsuitable pieces of wood from the material flow.

BENEFITS OF CLASSICLEANER

- Screening and cleaning in one unit
- Efficient removal of foreign materials
- No waste water
- Low maintenance
- Low energy consumption



Stones, metals and plastics are removed in a reliable process

ClassiRolls for different cleaning stages

ClassiCleaner

RECYCLING

Customized Solutions for the Preparation of Recycled Wood

Due to the shortage of valuable raw materials, a number of panel manufacturers are on the lookout for alternative, more cost-effective types of wood. Recycled wood is one option, but it requires special knowledge and the appropriate machine technology to create high-quality flakes. This is why, in addition to processing lines for the preparation of freshly-cut or processed wood, Dieffenbacher offers complete lines for the use of recycled materials, taking into account material-related and energy-related solutions.

STEP 1
PRIMARY SIZE REDUCTION AND PRESCREENING

Scrap wood (such as pallets or cable reels) is reduced in size by using the Big Crusher MGB. Any metal parts are removed using a magnet. It is possible to sort the material into different size fractions by using a screen. Particles that are small pass directly through the screen while larger material is discharged from the top of the screen.

STEP 2
SECONDARY SIZE REDUCTION

A variety of different size reduction machines are available depending on the customer's basic requirements. The beating rotors SRH and SRV offer robust and economical solutions for all types of wood to be processed in large amounts. For small quantities of up to 10 tons per hour, the ClassiSizer is the right solution for you. This can also be used to reduce the wood into exact, predefined sizes.

Big Crusher MGB

Beating Rotor SRH / SRV

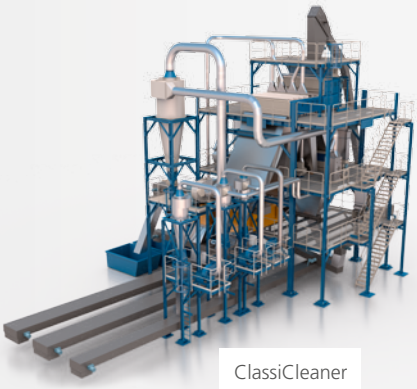
STEP 3
SCREENING AND CLEANING

The size reduction of chips of various sizes are now separated into different groups using a ClassiScreen and go through a secondary process if necessary. If extraneous materials such as plastics, glass, sand, stones or metal must be removed, then the ClassiCleaner is used.

CREATING FUEL WITH THE CLASSISIZER

An alternative to recycling dry wood chips is the production of wood dust for combustion in power plants, in order to partially replace the use of expensive natural gas as a fuel. This interesting application is already successfully operating in a number of wood-based panel manufacturers.

ClassiSizer



ClassiCleaner

ENERGY & ENVIRONMENT

EFFICIENT ENERGY SYSTEMS

Biomass Power Plants up to 120 MW

Our philosophy targets a long-term planning. We attach the utmost importance to the efficiency, safety and reliability of our energy plants. It all depends on having individual components with the right design. Less wear, reduced periods of downtime for cleaning, plants that are easier to operate – all of these factors help to reduce operating costs.

Dieffenbacher energy plants enable highly targeted responses to the varying conditions of the production plant. This allows you to structure the production process so that energy and resources are used as efficiently as possible, no matter which biomass fuels are used or whether fossil fuels are also used.

Energy plant IKEA Industry, Poland, 2012

With the grate firing chunky fuels are combusted. Powdered fuels are blown into the combustion chamber with the dust burner. Using this combination, the combustion can be optimally regulated and quickly adapted to changing energy requirements.

BENEFITS

- Integrated concept for energy plant and dryer
- Efficient use of flue gas to reduce emissions
- Optional combined heat and power increases efficiency

Variable fuels


Bark


Chips


Wood fibers


Sander dust


Lob


Brown coal


Straw


Rice husk


Wood waste


Sewage sludge


Crude oil


Natural gas

DRYER

Gentle Drying for Optimal Panel Properties

Drying fibers, chips and strands is an energy-intensive process. All dryer models from Dieffenbacher offer high performance and extremely gentle drying with comparatively low energy requirements.

DRUM DRYERS

Rotary drum dryers are used to dry chips and OSB strands. Precisely controlled intake temperatures and special components installed in the drum dryers ensure an extremely uniform drying process that preserves the materials, thereby achieving better panel properties.

FIBER DRYERS

In contrast to drum dryers, a fiber dryer based on the flow pipe drying principle is required for fine wood fibers such as those used in MDF, HDF or fiber insulation boards. Low inlet temperatures ensure minimal pre-curing of glued fibers and low emissions.

BENEFITS DRUM DRYER

- Low outlet temperature
- Very high capacity
- High operational safety
- Low energy consumption

BENEFITS FIBER DRYER

- Low inlet temperature
- Low outlet temperature
- Low installation expense
- Low emissions

Drum dryer

Fiber dryer

ENVIRONMENTAL TECHNOLOGY

Controls Formaldehyde, VOCs and Other Emissions

You cannot imagine a public discussion without the topic "environmental protection". Dieffenbacher offers an innovative environmental technology to design not only the real production process as efficient as possible but also environmentally friendly and economically.

The increasing requirements regarding volatile organic compounds (VOC), in particular formaldehyde, play a major role. Therefore, the solution are compact exhaust gas scrubbers for cleaning dryer or press exhaust gases with a high rate of mass transfer in combination with a regeneration of the washing water.

ENVIRONMENTAL ENGINEERING RANGE

- Emission Control Systems
- Waste Water Treatment Systems
- Pneumatic Systems
- Press Exhaust Cleaning Systems
- Heat Recovery Systems

Dryer Emission Control System

V VENTURI SCRUBBER

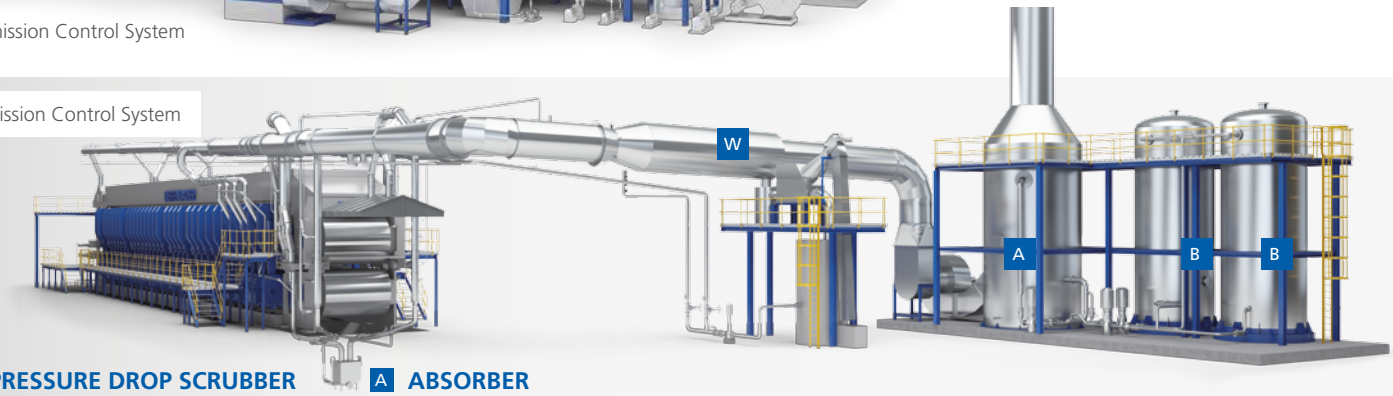
- Low slurry quantity to combustion
- Low maintenance requirement
- Adjustable emission control
- High separation efficiency
- Low space requirement

A ABSORBER

- Reduction of VOCs and formaldehyde
- No additional space requirement
- Optimized mass transfer rate

D DESORBER

- Stripping of VOCs from water
- Reduced waste gas quantity
- VOCs elimination in existing combustion chamber



Press Emission Control System

W LOW PRESSURE DROP SCRUBBER

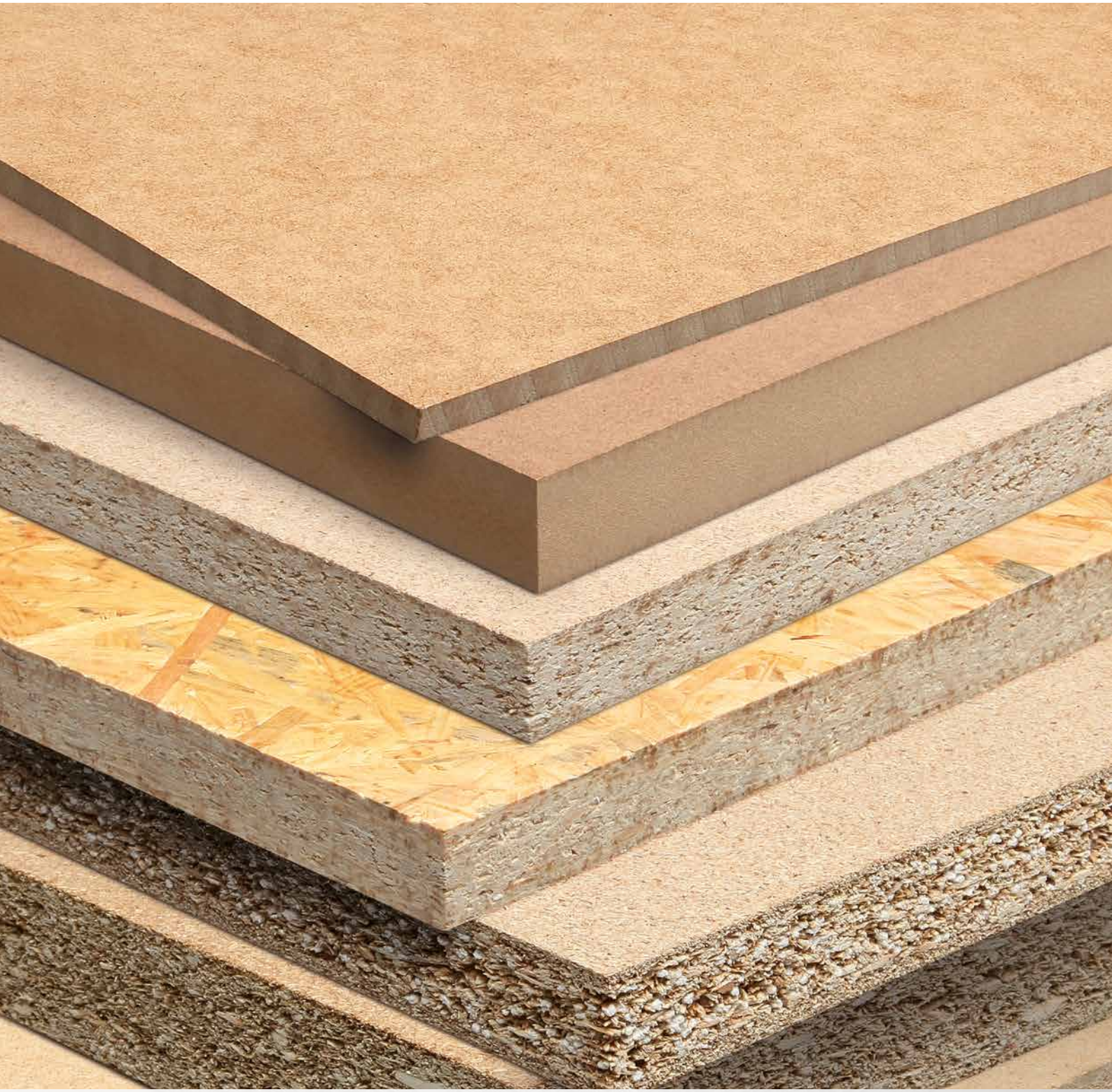
- Low operating costs
- Fluid optimized system
- Reduced pressure drop
- Low space requirement

A ABSORBER

- Reduction of VOCs and formaldehyde in press exhaust gases
- Optimized mass transfer rates
- Low additional space requirement

B BIOLOGICAL REACTORS

- Low maintenance requirement
- Alternative desorber concept possible
- Degradation of VOCs and formaldehyde



PANEL MANUFACTURING

GLUING

Solutions Offering Potential Savings

In addition to conventional gluing systems for particles, MDF and OSB, Dieffenbacher also offers new and innovative solutions for reduced glue consumption that can also be integrated into existing plants.

MDF

The EVOjet M dry resin blending system leads to a finer and more effective gluing of the wood fiber surfaces than a conventional blow-line. In practice, the EVOjet M system reaches with a glue consumption of 55 kg/m³ a glue saving up to 30% and even more - depending on actual conditions.

PARTICLEBOARD

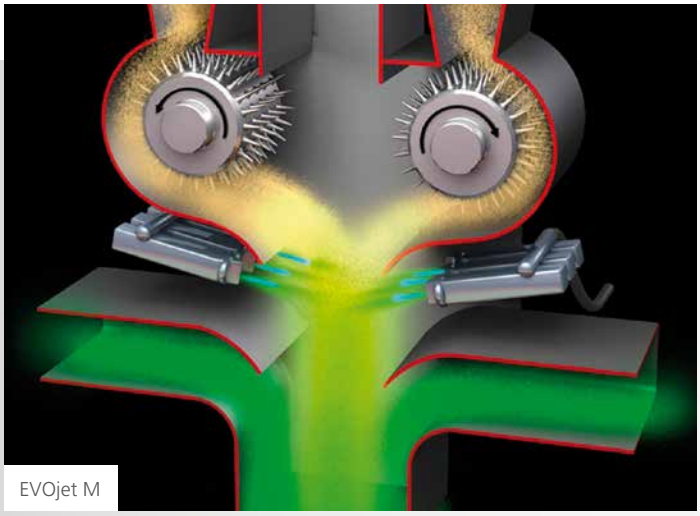
Similar to the EVOjet M MDF concept, the EVOjet P ensures uniform and economical gluing of particles when manufacturing particle boards. The savings with a glue consumption of 47 kg/m³ allow for a return on investment of approximately one year.

EVOJET M
ECONOMICAL MDF GLUING

- Resin savings up to 30 % compared to conventional blow line
- No shutdowns for maintenance needed
- Reduced emissions out of the dryer
- Mechanical dissolving and homogenization of the fiber stream
- Very good resin distribution

EVOJET P
NEW PARTICLE GLUING

- Up to 5 kg/m³ solid resin saving compared to common blender technology
- up to 15 % resin savings in the core layer
- Preheating effect in mat
- Option to add hardener
- Low-pressure steam nozzles
- Existing glue pumps and dosing can be used in case of retrofit
- Low investment costs



EVOjet M

EVOjet P

FORMING LINES

Maximum Forming Accuracy for all Panels

Dieffenbacher forming systems are modular, versatile machines that meet your requirements thanks to their design and high quality standards.

OSB

The Dieffenbacher OSB forming station enables exact cross- and lengthwise orientation of the strands for core and surface layers, ensuring optimal board properties.

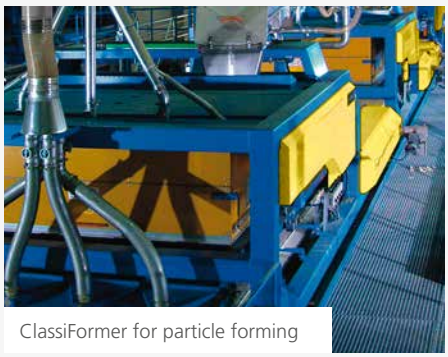
PARTICLEBOARDS

Dieffenbacher offers two forming systems for the production of particleboards. The wind forming meets even the most demanding requirements for coating and direct varnishing of surfaces. The ClassiFormer roller forming system offers a compact design and excellent tolerances.

MDF, THDF AND WOOD FIBER INSULATION BOARDS

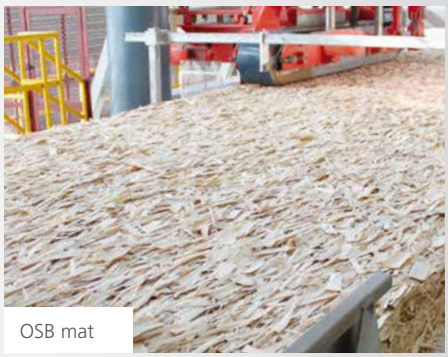
Dieffenbacher forming systems for MDF/THDF panels and light insulation boards are customized to the user's specific requirements. Each system is based on the custom-sized forming bin with a powerful discharge head. Either a vacuum forming head or a roller forming head can subsequently be used to spread the fibers.

Forming station for lightweight panels



ClassiFormer for particle forming

Scalper used in MDF forming stations



OSB mat

VACUUM FORMING STATIONS FOR MDF

The vacuum forming station with spiked rollers is the first choice for producing thin boards. This system allows THDF panels with a thickness as low as 1 mm to be produced to the highest quality standards in terms of strength and surface quality. The vacuum forming technique is tried and tested and has been successfully used by the Dieffenbacher Group for many years.

ROLLER FORMING HEADS FOR MDF

Roller forming heads are universal machines, which are suitable for all common requirements thanks to the different roller designs. The technology that underpins the roller forming head is the most established in the production of MDF panels.

The Formator can be used to enhance the results of the vacuum and roller forming head forming stations. The Formator is a combination of a segmented scalper and a Dieffensor.

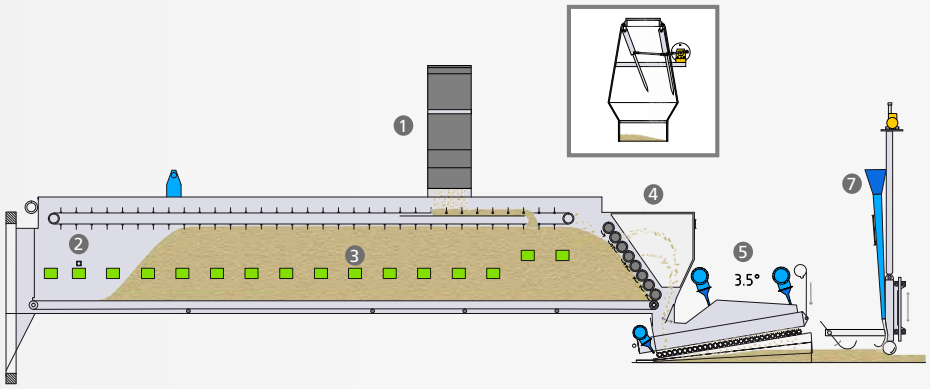
BENEFITS OF THE FORMING SYSTEM

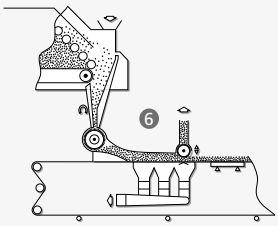
- High forming accuracy for optimum surface quality
- Low fluctuations in density, both lengthwise and crosswise
- Solutions for small-to-large capacities of up to 3000 m³/day
- High speeds of up to 2500 mm/s
- Panel width of up to 12 ft (4 m)
- Minimal maintenance required

Dissolving rollers

Discharge head

OPERATING THE MDF FORMING STATION

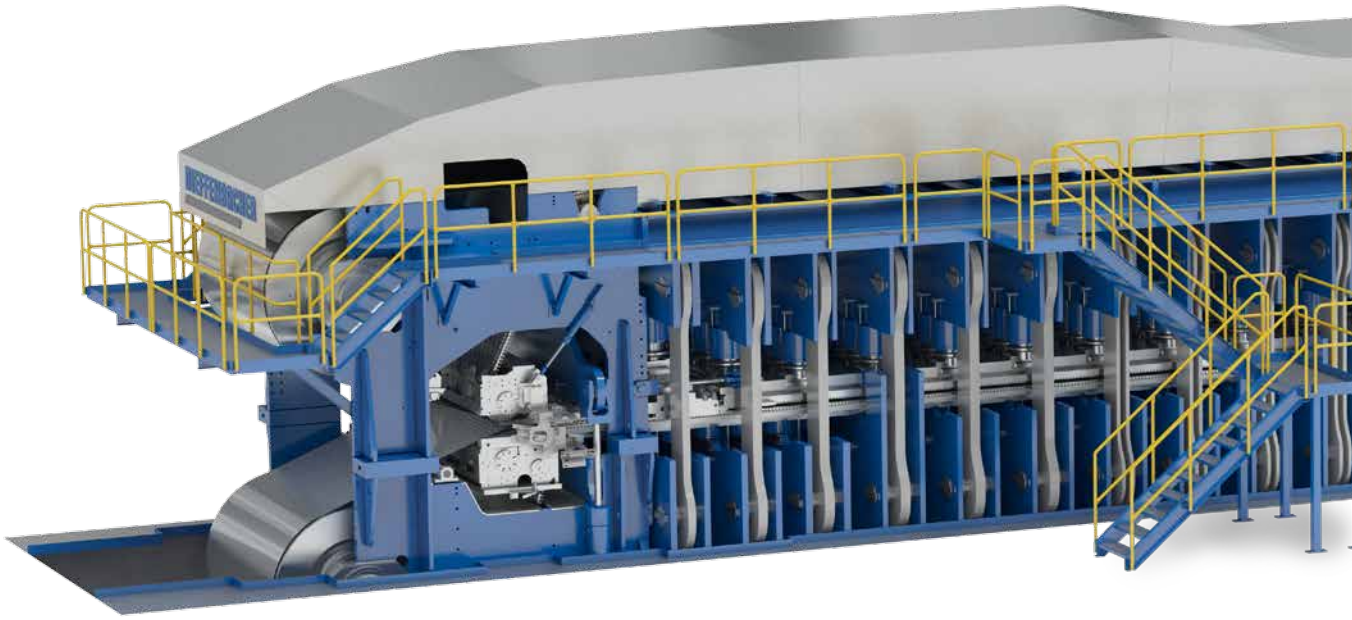




1 Distribution flap
2 Fillling level sensor
3 Viewing windows
4 Discharge head with dissolving rollers
5 Forming head
6 Spike-Roll Vacuum Former
7 Scalper

THE CONTINUOUS PRESS SYSTEM CPS+

High-End Press Technology for Production Widths of 4 Feet and More



The new Dieffenbacher CPS+ is extremely versatile and ideally equipped to meet future requirements, particularly for new and innovative products such as lightweight panels, panels made from alternative raw materials or thin panels.

DOUBLE HINGE INFEED

This system enables problem-free de-aeration of the mat, particularly at high press speeds, without blisters. The simultaneous fast pressure built-up leads to a high surface density. This guarantees excellent bending properties in the panels and low varnish consumptions by direct painting.

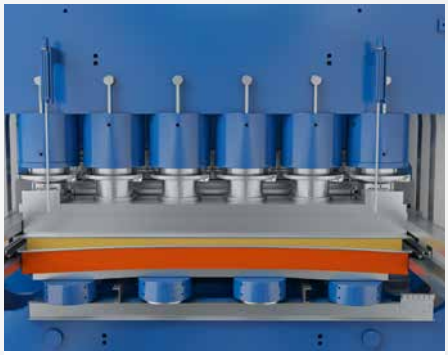
PRESS INFEED PROTECTION (PIP)

The maximum speed of the CPS+ is 2500 mm/s. Despite the high speed, producing THDF is safer than ever. An X-ray sensor checks the panel before it is fed in. If mat flaws or distortions are identified, the pressure cylinders are immediately released and the press stops automatically.

THERMO ACTIVE PROTECTION PLATENS

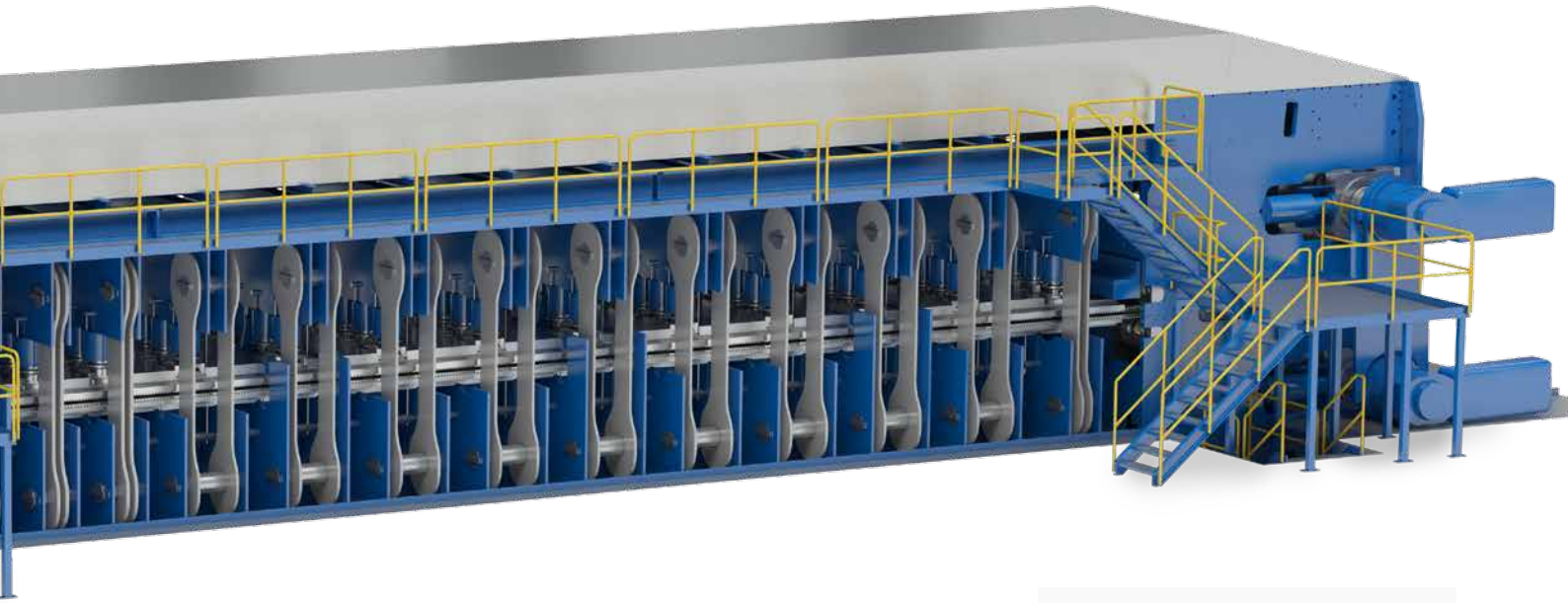
Dieffenbacher heating platens are protected against damage by hardened protection platens. The first protection platens that come into contact with the panel are fitted with heating channels to ensure a faster heat transfer. This considerably reduces the time needed to heat the panels up to 100°C. There is also a corresponding reduction in the pressure factor.

Double hinge infeed for rapid pressure build-up



Pull-back cylinders at the infeed edges allow quick de-aeration of the mats

Press Infeed Protection (PIP) gives a quick pressure release in the event of mat flaws



PARALLEL PRESS GAP SYSTEM (PPS)

The pressure distribution principle—for extremely low press gap variations in the working direction—was originally developed for thin panel production. Targeted displacement of the upper and lower frame elements creates an extremely even pressure distribution along the press.

MODULAR FRAME CONSTRUCTION

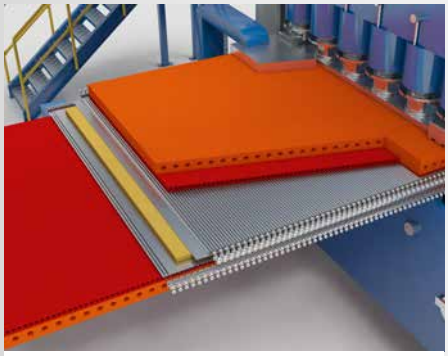
The structure of CPS+ frames consists of four frame elements with preinstalled internal cylinders. The advantages of the modular design are a shorter set-up time, easier transport, reduced maintenance and a shorter down-time period if the press is extended at a later date.

THERMAL EXPANSION

The movement of the frames during thermal expansion of the frame has been known for decades. When it expands due to the increase in temperature of the heating platens, all frames—installed on sliding platens—move with the heating platens, including the internally mounted cylinder. Hydraulic fluids remain contained, resulting in a dry press operation. It is possible to maintain the press with minimal down-time.

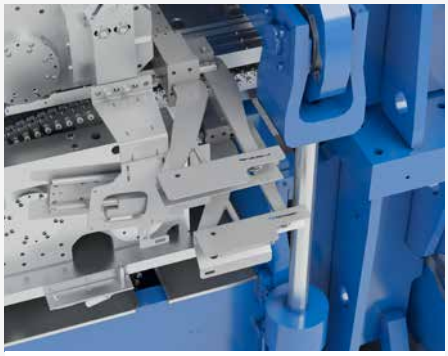
BENEFITS OF THE CPS+

- Low boards tolerances up to +/- 0.05 mm
- Wide panel density range from 350 to 1000 kg/m³
- High speeds of up to 2500 mm/s
- Press width of up to 12 feet (4 m)
- Variability in production width of up to 700 mm
- Minimal maintenance required
- Easy accessibility



Thermo active protection platens provide a quicker heat transfer

The offset arrangement of the pressure cylinders for even board surfaces



Automated orthogonal adjustment for an optimal belt run

OTHER PRESS SYSTEMS

ContiPlus, Multi-opening Press, Presses for Wood Fiber Insulation Boards

CONTIPLUS

The ContiPlus from our Chinese subsidiary Dieffenbacher-SWPM is a compact 4-feet press for small and mid-range capacities. Manufactured exclusively at the Dieffenbacher plant in China, this press still meets the exacting Dieffenbacher quality standards. The first press was started up in 2009, and more than 40 presses have since been delivered to MDF and particleboard plants in China and Asia. In addition to employing its own components for forming lines and finishing lines, Dieffenbacher-SWPM can also incorporate components from the parent company.

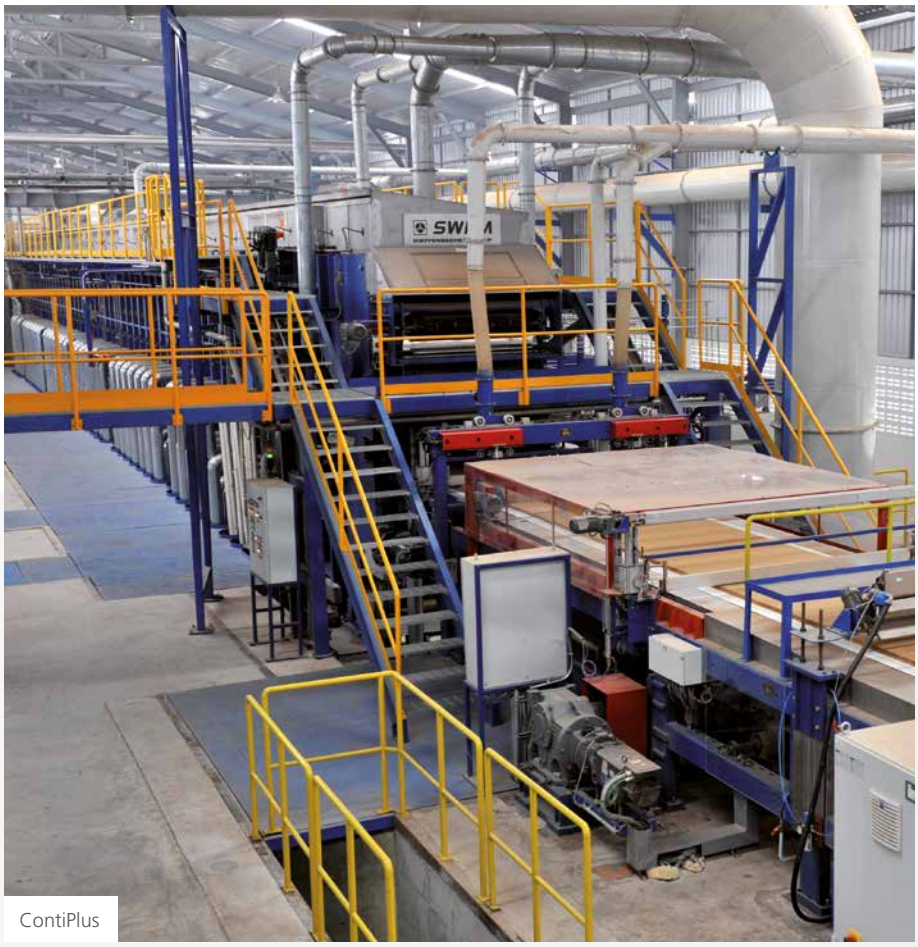
MULTI-OPENING PRESS

In North America, 8-feet and 12-feet multi-opening lines are still the first choice for manufacturing OSB. However, 4-feet, 6-feet and 8-feet single-opening and multi-opening presses are still a reliable option for smaller and medium capacities. The reliability of Dieffenbacher presses can be seen in the oldest single-opening press, which is in service in South Africa since 1979.

CONTINUOUS STEAM SYSTEM (CSS)

Wood fiber insulation materials rank number one among other insulation materials made from renewable raw materials. Dieffenbacher has been supplying plants for manufacturing wood fiber insulation boards since 2008. With the Dieffenbacher CSS technology, wood fiber insulation boards can be manufactured in a wide range of products in terms of their thickness, width, density, gross density profile and binder.

CSS



ContiPlus

Multi-opening press

FINISHING AND VALUE ADDING

Economical Further Processing

FINISHING

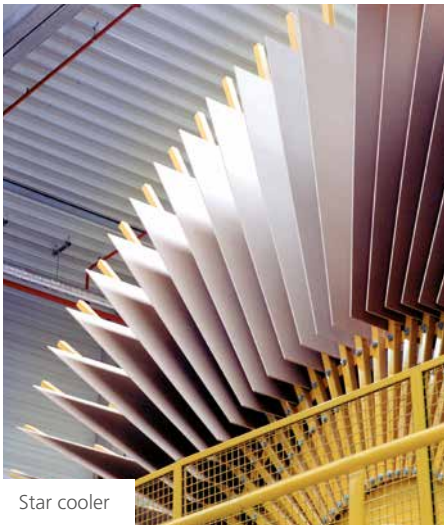
Finishing includes the machinery from the diagonal saw, which cuts the endless mat to the required length, to the packing machine. The distinguishing feature of all Dieffenbacher components is their high operational safety.

The components include:

- Multi-head diagonal saw
- Star cooler
- Sanding line
- Packaging and stacking stations
- Conveyor systems
- Storage systems
- Trimming and splitting saw
- Strapping and packaging

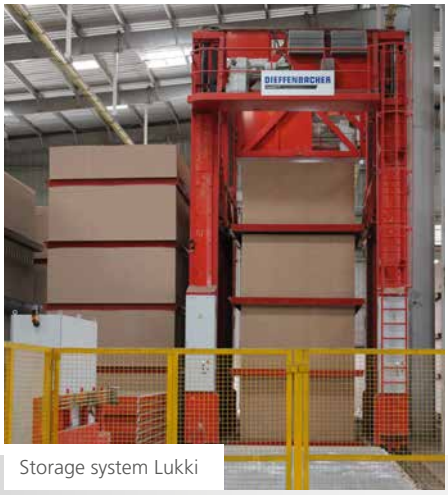
SHORT CYCLE LAMINATING LINES

Our affiliated company Dieffenbacher Zaisenhausen supplies short cycle laminating lines for manufacturing furniture panels, decorative panels and floor laminates. These lines produce high-grade, robust surfaces at optimal product quality.



Star cooler

Diagonal saw



Storage system Lukki

Sanding line

Short cycle press

PELLET PRODUCTION

COMPLETE PELLET PLANTS

Plants on an Industrial Scale from One Single Source

Dieffenbacher builds complete pellet plants on scales of 120,000 metric tons of pellets per year and above. In this concept, the systems manufacturer for the wood based panel industry uses its expertise in wood processing and delivers all of its own key machines and components. The product range covers size reduction technology for any kind of wood, as well as drying, energy generation using biomass and, of course, pelletizing.

BENEFITS

- Quick start-up and safe production assured
- Total machinery package from one single source with standardized Dieffenbacher process control

DEBARKING

CHIPPING

WET FLAKING

DRYING & ENERGY GENERATION

DRY FLAKING

PELLETIZING

SERVICE & MODERNIZATION

Life-Long Responsibility for Your Plant

Our quick and responsive service centers in Europe, North and South America, South East Asia and China provide an outstanding level of service. Whether you require quick trouble-shooting, state-of-the-art original spare parts or modernization work to increase capacity, a contact person from a Dieffenbacher service center will never be far away. This is true of both our own panel plants and plants supplied by our subsidiaries.

24H ONLINE SERVICE
24/7 support through online connection to our specialists in the service center.

MAINTENANCE AND SPARE PARTS
Service and fast supply of original spare parts by our service companies in the key market regions.

MODERNIZATION AND OPTIMIZATION
Whether you require trouble-shooting, regular maintenance, a supply of spare parts or plant modernization work, our global service network will offer you continuous support even after you have purchased a plant.

TRAINING
Training in typical plant control systems, regulation concepts and maintenance processes..

Installtion of a steam preheater

Before and after modernizing ...

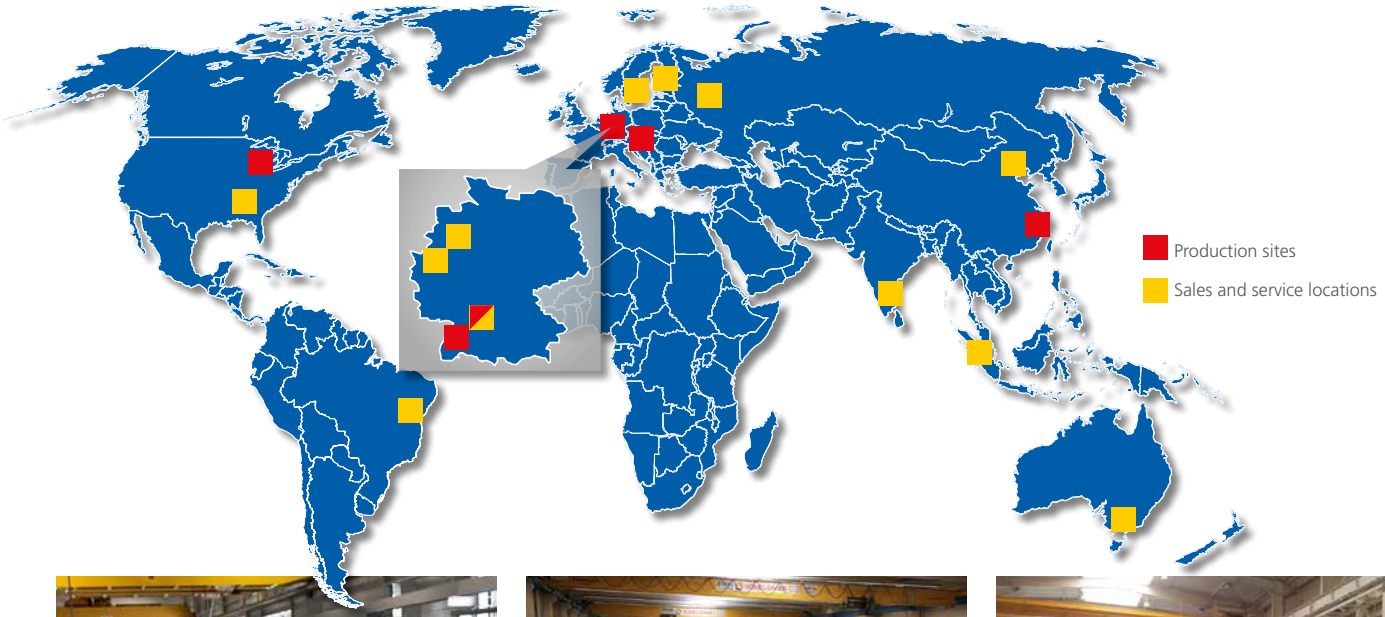
... the alignment of the rolling rods in a CPS

Online-service center

PRODUCTION CLOSE TO THE CUSTOMERS

Always „Made by Dieffenbacher“

With a global production network across three continents, production at Dieffenbacher is closely to our customers. No matter which production site, whether in Germany, the Czech Republic, Canada or China, production at Dieffenbacher always meets the highest quality standards. This means that our customers benefit not only from faster delivery times, but also from the fact that price advantages thanks to lower logistical costs, the absence of customs duties or greater flexibility when purchasing materials can be passed directly onto the customer.

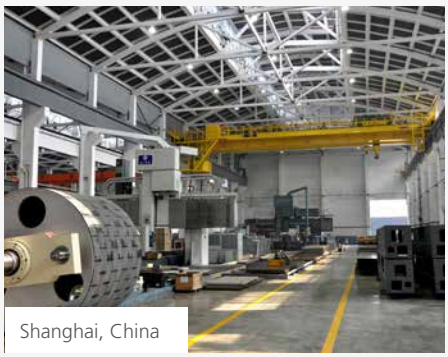



Eppingen, Germany


Ötigheim, Germany


Brno, Czech Republic

Windsor, Canada


Shanghai, China

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