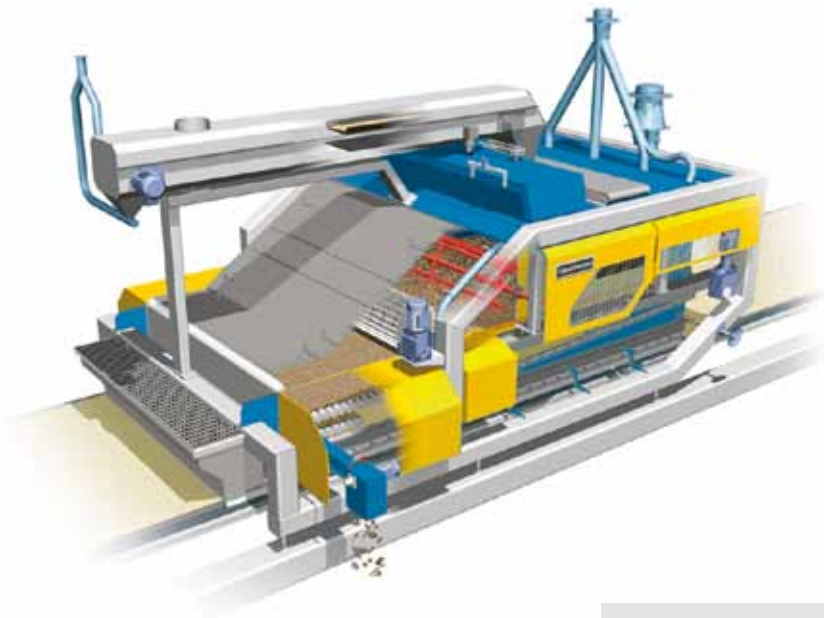
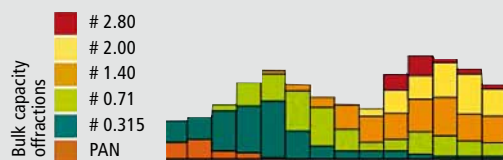
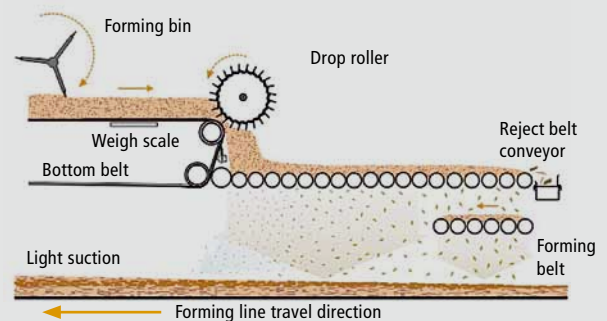


ClassiFormer™ SC



The ClassiFormer SC combines surface and core forming by using a mixture of surface and core flakes in the mat forming. As a result, only two machines are needed to produce the mat.

Compared with conventional, separate surface and core machines, ClassiFormer SC is highly space-efficient and requires only simple conveyor arrangements. Both stationary and moving forming stations are available, with capacities up to 800 m³/d.



Particleboard production (m³/d)

Line width		ClassiFormer type			
mm	feet	SC3	SC4	SC5	SC6
1220	4	110	180	260	330
1830	6	170	270	390	500
2135	7	190	320	450	580
2440	8	220	360	520	700
2745	9	250	410	580	750
3050	10	280	460	640	800

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ClassiFormer™

Forming stations for particleboard production



DIEFFENBACHER

ClassiFormer™ –

improving profitability of particleboard production



ClassiFormer delivers high forming accuracy and stability for surface, core and combined mat forming in modern particleboard production. The superior features of ClassiFormer ensure accurate process optimization and significantly improved production economy. The compact design makes it ideal for rebuilds and retrofits.

ClassiFormer technology is recognized globally as the leading forming technology for particleboard production lines. This has been proven in more than 250 installations worldwide. The producers using ClassiFormer have reported significant raw material savings, improved end-product quality and short payback time.

- Accurate and stable mat forming
- Elimination of oversized particles
- Superior control of flake classification
- Low operating costs

Compact design for installation flexibility

The compact ClassiFormer requires much less space than conventional forming machines. The low space requirements make it ideal for rebuilds and retrofits. Overall investment cost is reduced since the need for building height, support structures and platforms is much less than in conventional forming stations.

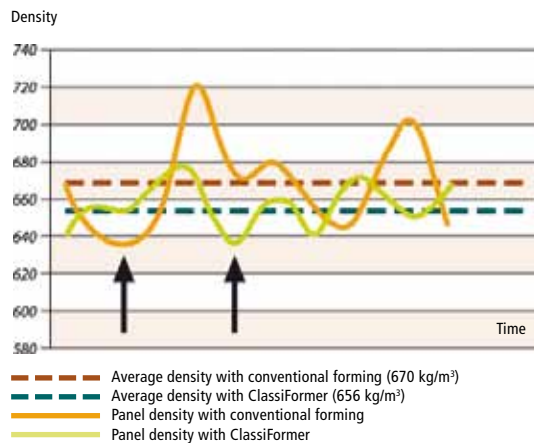
Installation and start-up are simple and fast, maximizing overall production uptime. This versatile forming machine can be installed in virtually all production lines: single daylight lines, multi-opening lines, continuous press lines and lines with stationery or moving forming stations.

ClassiFormer™ –

improving profitability of particleboard production

Accurate and stable mat forming

The high forming accuracy and stability of ClassiFormer makes it possible to produce high-quality panels at low densities, without compromising the uniform surface quality or minimum thickness tolerance. The fine and uniform surface produced by ClassiFormer significantly improves the economy and efficiency of the laminating process due to the absence of glue lumps and spots of dust and glue.



With ClassiFormer, the same strength properties are achieved with lower average density due to stable forming

Elimination of oversized particles

The elimination of oversized particles is carried out with the roller bed and reject belt conveyor. This prevents damage to press platens and steel belts caused by large and heavy particles, such as flakes, dust balls or glue. Removal of glue spots also improves the surface quality.

ClassiFormer delivers superior flake classification. The larger flakes can be placed on the outer core, which results in improved cross-directional and bending strength.



Combined with the functionality of the forming bin, the unique, self-cleaning rollers ensure high forming accuracy without daily or weekly cleaning. As a result, machine uptime is maximized resulting in the highest production capacity utilization.

Due to the controlled flake classification, the ClassiFormer is quickly and easily adjustable to accommodate production of different grades of panels for furniture, flooring and building materials – a feature that helps to meet a wide range of customer needs.

Latest additional features

The ClassiFormer has been on the market for more than 15 years and has proven to be a definite leader in forming installations. The new features have been developed continuously to further improve the functionality.

A weigh scale has been installed into the forming bin to provide information about flake discharge flow from the bin. This replaces the scales in the forming conveyor. The control of mat weight is improved since flake flow information is now received without delays. This also accelerates production starts and changes.



Roller bed

Motor Control Cabinet (MCC) is embedded to forming machine, which means that cabling from MCC to motors and sensors is pre-installed. This further shortens start-up and installation time.

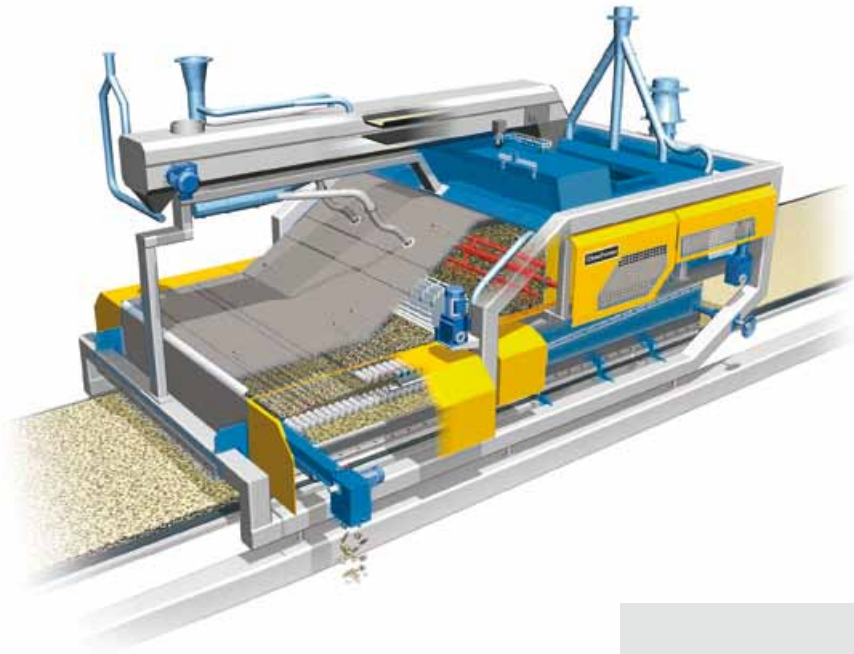
Low operating costs

Compared with conventional wind formers, ClassiFormer requires only a small percentage of the air quantities, which significantly reduces dust emissions and energy consumption.

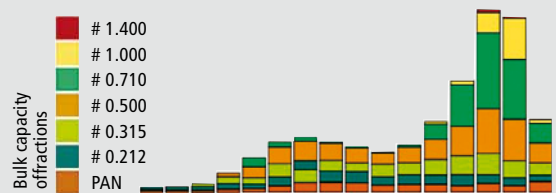
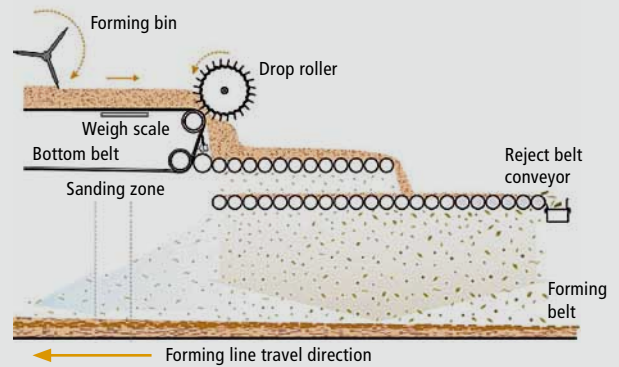
ClassiFormer contributes to the efficient use of raw materials. Accurate forming is maintained continuously along the length of the station, even during forming line stop and start phases. The machine design simplifies width adjustment and material return techniques, which improves material yield. The material recycled from the mat-width adjustment device is fed back to the former without mixing the surface and core material.

As a result of lower wood, resin and energy consumption, the unique operating principle of ClassiFormer is environmentally sound as well as cost efficient.

ClassiFormer™ SF



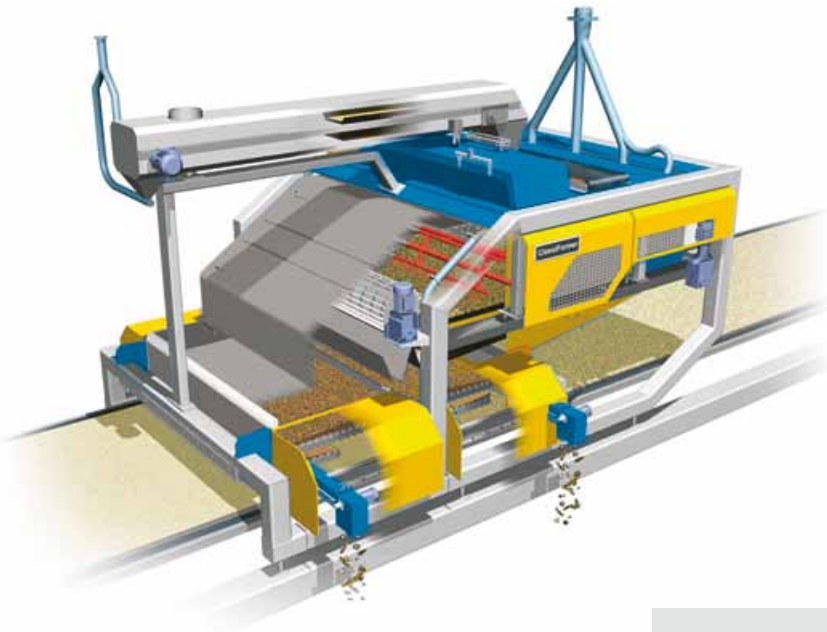
The ClassiFormer SF has been designed to improve the surface quality and lower the surface layer thickness. An additional top roller bed in the ClassiFormer SF model offers significant benefits by improving the economy and efficiency of further process stages, such as sanding, painting or laminating. The unique Unifeed rollers in the end of the roller bed make ClassiFormer SF suitable for plants using recycled or annual plant raw materials. They also increase the forming capacity, which is up to 3,100 m³/d. Due to the use of two roller levels, the forming head is short, reducing the length of the forming line.



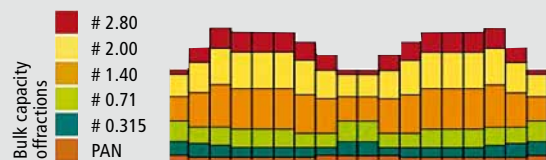
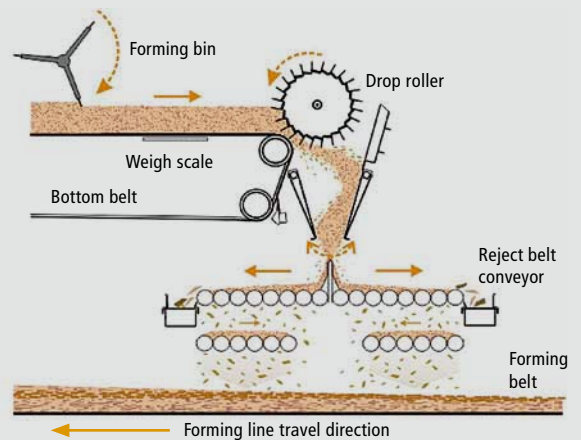
Particleboard production (m³/d)

Line width		ClassiFormer type							
mm	feet	SF3	SF4	SF5	SF6	SF7	SF8	SF9	
1220	4	280	450	620	790	960	1130	1300	
1830	6	430	675	920	1165	1410	1655	1900	
2135	7	500	780	1060	1340	1620	1900	2180	
2440	8	570	890	1210	1530	1850	2170	2500	
2745	9	640	1000	1360	1720	2080	2440	2800	
3050	10	710	1110	1510	1910	2310	2710	3100	

ClassiFormer™ CC



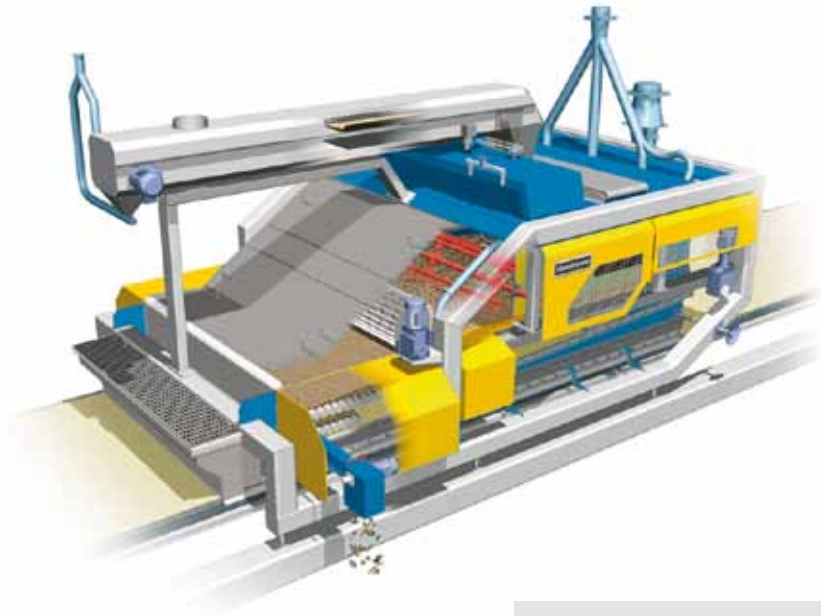
ClassiFormer core machines (models C and CC) provide homogeneous or classified core layer quality for high-capacity particleboard plants. The CC-model is equipped with one forming bin and two forming heads. Consequently, only one unit is needed in a forming station. The CC-model provides capacity up to 1,400 m³/d.



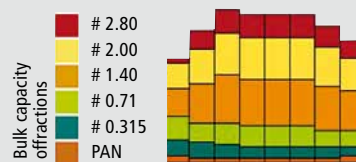
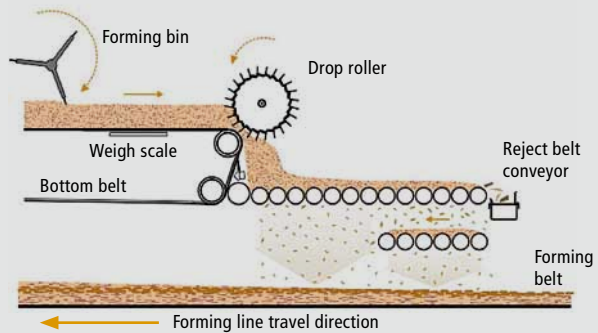
Particleboard production (m³/d)

Line width		ClassiFormer type		
mm	feet	CC2	CC3	CC4
1220	4	330	490	610
1830	6	470	690	680
2135	7	530	770	960
2440	8	600	880	1100
2745	9	670	990	1250
3050	10	740	1100	1400

ClassiFormer™ C



ClassiFormer C has the same features as the CC-model. In production lines operating with the highest capacity, up to 3,200 m³/d, two ClassiFormer C machines are needed.



Particleboard production (m³/d)

Line width		ClassiFormer type					
mm	feet	C3	C4	C5	C6	C7	C8
1220	4	500	660	800	1000	1200	1400
1830	6	700	990	1200	1500	1750	2000
2135	7	790	1170	1400	1750	2050	2300
2440	8	900	1330	1600	2000	2300	2600
2745	9	1100	1500	1850	2250	2600	2900
3050	10	1300	1670	2000	2500	2900	3200