



DELTAPLATFORM SYSTEM

Next generation adjustable table

ANDRITZ

ANDRITZ advantage

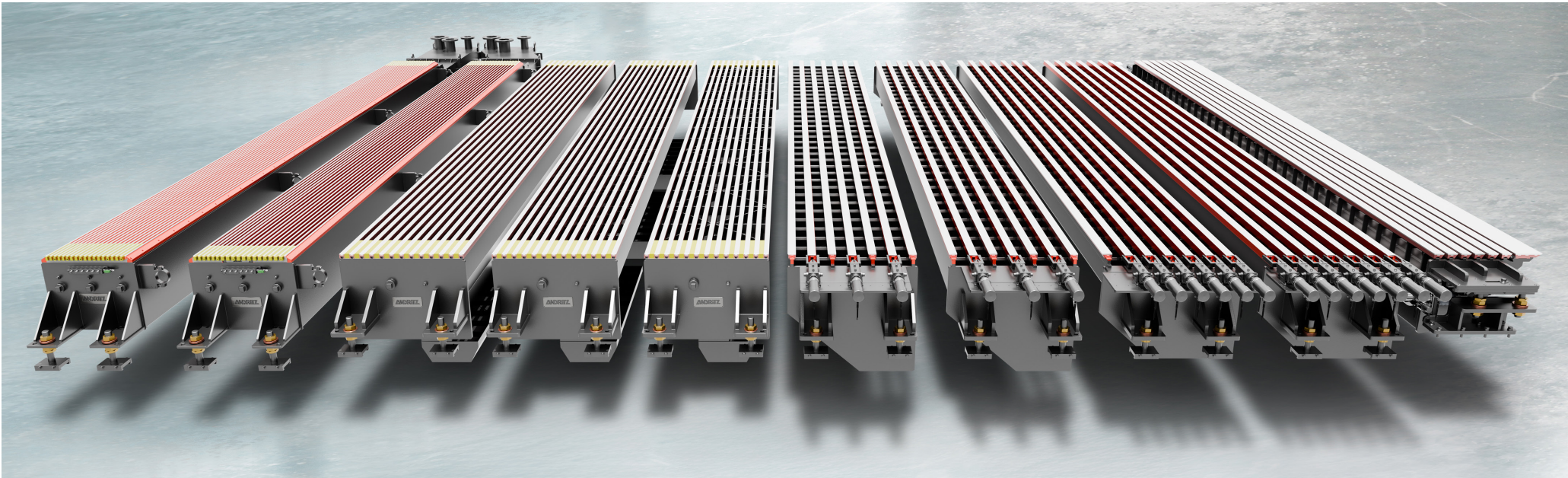
ANDRITZ is a recognized industry leader in forming for many years. We have continued to invest in people, fundamental research, and pilot machinery to continually provide innovative solutions for our customers.

ANDRITZ latest generation of adjustable table equipment is based upon this development work, and it can achieve significant fiber savings with minimal equipment. ANDRITZ recognizes that sheet structure, drainage capacity, and operational performance are influenced by early single wire forming. Sheet structure can have a substantial impact on final sheet strength properties and the corresponding amount of raw material or basis weight needed to achieve specific strength targets.

This approach provides our customers with high ROI projects. ANDRITZ provides industry-leading expertise for the entire forming section including twin wire forming, high vacuum applications, fabric cleaning solutions, and forming section mechanical and engineering services. We are your single source for forming section expertise.

DELTAPLATFORM - GRADE OPTIMIZATION SYSTEM

ANDRITZ offers the latest generation of adjustable table technology, the DeltaPlatform. The DeltaPlatform provides the most flexibility and adjustability to optimize activity and shear for maximum performance at the lowest basis weight. Continuing development work has yielded next generation options with maximum performance with minimal investment.



PAPERMAKING CHALLENGES

- Wide speed range
 - Table activity response varies with speed
 - Sheet structure properties will be influenced
- Varied grade structure
 - Wide basis weight range
 - Widely varying property targets

PAPERMAKING OPPORTUNITIES WITH DELTAPLATFORM

Optimize activity, shear and drainage rates to get the maximum benefit for each grade by providing an application specific, customized, engineered flow path.

- Highest degree of operational flexibility on the market
- Significant fiber savings due to physical property improvement
- High return on investment and quick payback projects

CUSTOMIZATION CONSIDERATIONS

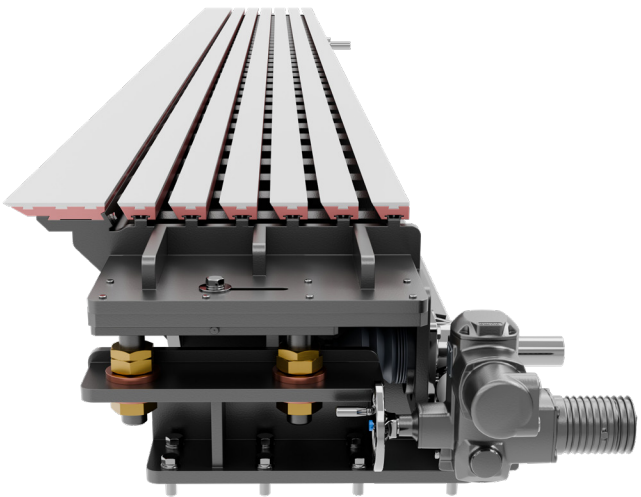
- Grade range (speed and basis weight combinations)
- Yield stress of furnish
- Specific filtration resistance of furnish

DeltaPlatform systems

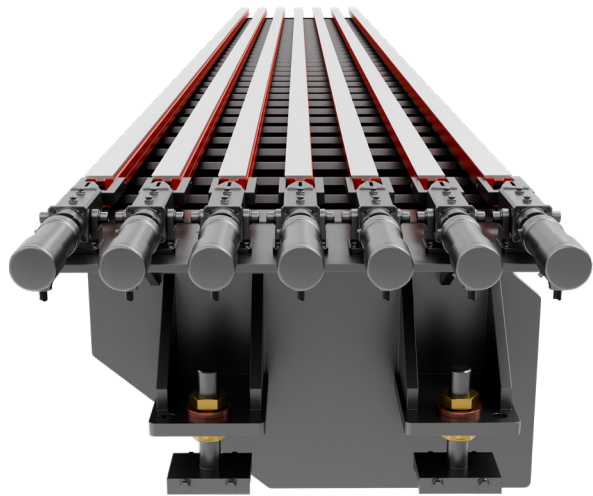
DeltaPlatform systems are designed to allow the papermaker to achieve varying grades and basis weights. These targets are achieved by using a customized combination of our patented drainage components.

MD ADJUSTABLE FORMING BOARD FOR IMPINGEMENT CONTROL

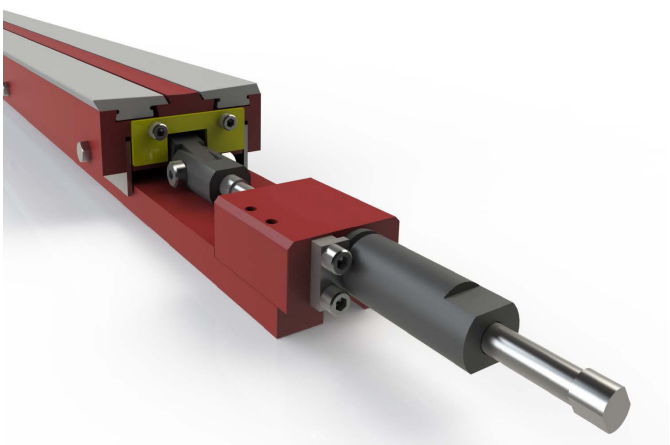
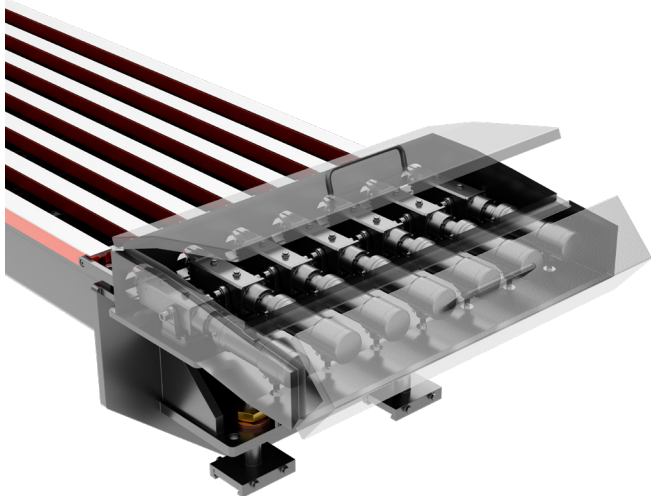
- Equipped with machine direction positioning device including jack screws, cross shaft, handwheel and custom mount stands
- Fabricated from stainless steel and other non-corrosive materials
- Supplied with ceramic premium aluminum oxide lead and follower blades



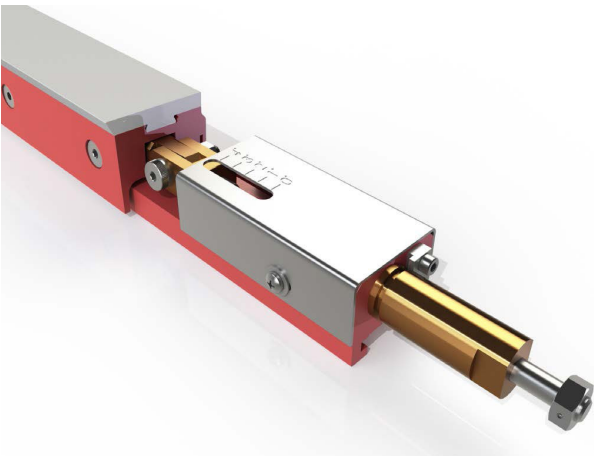
MD Adjustable



DeltaFoil



Omnifoil-V



Omnifoil-A

DELTAFOIL

- Equipped with a standard foil blade in the lead position and customized number of Omnifoil-A and/or Omnifoil-V adjustable foils on alternating tee bars
- Each cell can be adjusted remotely through mill the mill's DCS or dedicated PC or can be manually adjusted from the front side of the machine
- All mounting assemblies are included to secure the unit to the existing machine mounting rails
- Fabricated from Stainless Steel and other non-corrosive materials

DELTAFL0-V UNIT

- Equipped with Omnifoil-A and/or Omnifoil-V adjustable blades in the supporting positions
- Each cell can be adjusted remotely through mill the mill's DCS or dedicated PC or can be manually adjusted from the front side of the machine
- Unit is equipped with integral trap style drainage ducts that are designed to seal within the machine save alltrays
- All mounting assemblies are included to secure the unit to the existing machine mounting rails
- Fabricated from Stainless Steel and other non-corrosive materials

CONTROLS AND AUTOMATION OPTIONS

Repeatability is the key to consistently make a superior product. ANDRITZ manually actuated or fully automated systems ensure the exact setup required for each specific paper grade. Our robust, simple designs offer a forgiving response curve. This allows the ability to dial in the desired activity level in an easy, repeatable manner. If a fully automated system is required, ANDRITZ can supply an actuated system that utilizes a grade code supplied by the DCS or stand-alone PLC to set all actuators to the desired position. This allows the papermaker to focus on all of the other factors that go with a grade change.

SPECIFICATIONS:

- High precise and special enclosure protected servo actuators available through DCS and/or stand-alone PLC
- AutoVac HD to provide linear vacuum control available through DCS

ISOFL0-V UNIT

- Pulsative low vacuum drainage device
- Each cell adjusts vertically remotely through the mill's DCS or dedicated PC or can be manually adjusted from the front side of the machine and is equipped with OmniFoil-V blade in order to enhance stock activity
- The units are equipped with integral trap style drainage ducts that are designed to seal within the machine saveall trays
- All mounting assemblies are included to secure the unit to the existing machine mounting rails
- Fabricated from Stainless Steel and other non-corrosive materials

CUSTOMIZATION DESIGN CONSIDERATIONS INCLUDE:

- Location, quantity and combination of the four DeltaPlatform components
- Blade geometry of each unit is application specific
- Blade style and placement to achieve desired results include:
 - Standard foils
 - OmniFoil-A adjustable angle blades
 - OmniFoil-V adjustable height blades



AutoVac HD



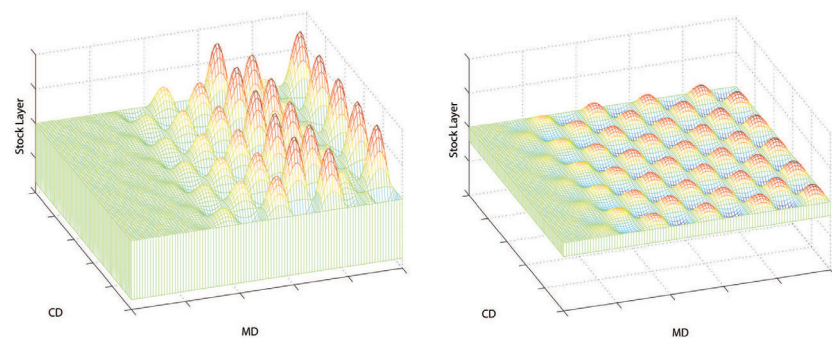
DeltaPlatform recipe



DeltaPlatform electrical cabinet

Continuing innovation

ANDRITZ continually invests in people, equipment and fundamental research to help our customers achieve a competitive advantage. Fabric deflections and machine speeds provide driving forces for table activity and shear levels which can be designed and controlled to improve fiber dispersions and cross machine orientation resulting in improved structural properties. ANDRITZ combines proprietary modeling, pilot machine capability and extensive application experience to provide customized, highly flexible custom solutions to achieve world class results with minimal equipment and downtime.



Impact of cover geometry on spout growth

Service

The forming section or wet end of any paper machine plays a major role in establishing final sheet properties and overall machine runnability. ANDRITZ is your one stop shop for wet end engineering and mechanical service. ANDRITZ has experts in the fields of mechanical maintenance and alignment, ceramic inspection and repair and engineering and process troubleshooting. Investing in ANDRITZ wet end services increases operational efficiency, lowers cost per ton, and enhances sheet characteristics. ANDRITZ experienced service personnel are located in service centers globally and are ready to help you improve your papermachine performance.



ENGINEERING SERVICE AND PROCESS ANALYSES

- Complete wet end audits
- Activity evaluation
- Sheet forming benchmarking and optimization
- Dewatering characterization and bottleneck identification
- Evaluation of XY and ZD sheet structure and fiber orientation
- Headbox TSO and basis weight troubleshooting
- Vacuum systems evaluation and recommendations
- Drag load benchmarking and power saving recommendations
- Wet end cleanliness audits

CERAMIC SERVICE

- Ceramic inspection
- On-site repair and service
- Regrinding of existing ceramic
- Installation and handling supervision

MECHANICAL AND STRUCTURAL AUDITS

- Structural and mechanical audits
- Deflection and load analysis
- Vibration analyses
- Drive audits

MECHANICAL SERVICE

- On-site structural repair
- Cladding repair and field welding
- Replacement and installation of parts
- Supplemental maintenance services
- Rebuild installations services
- Framework cantilevering



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