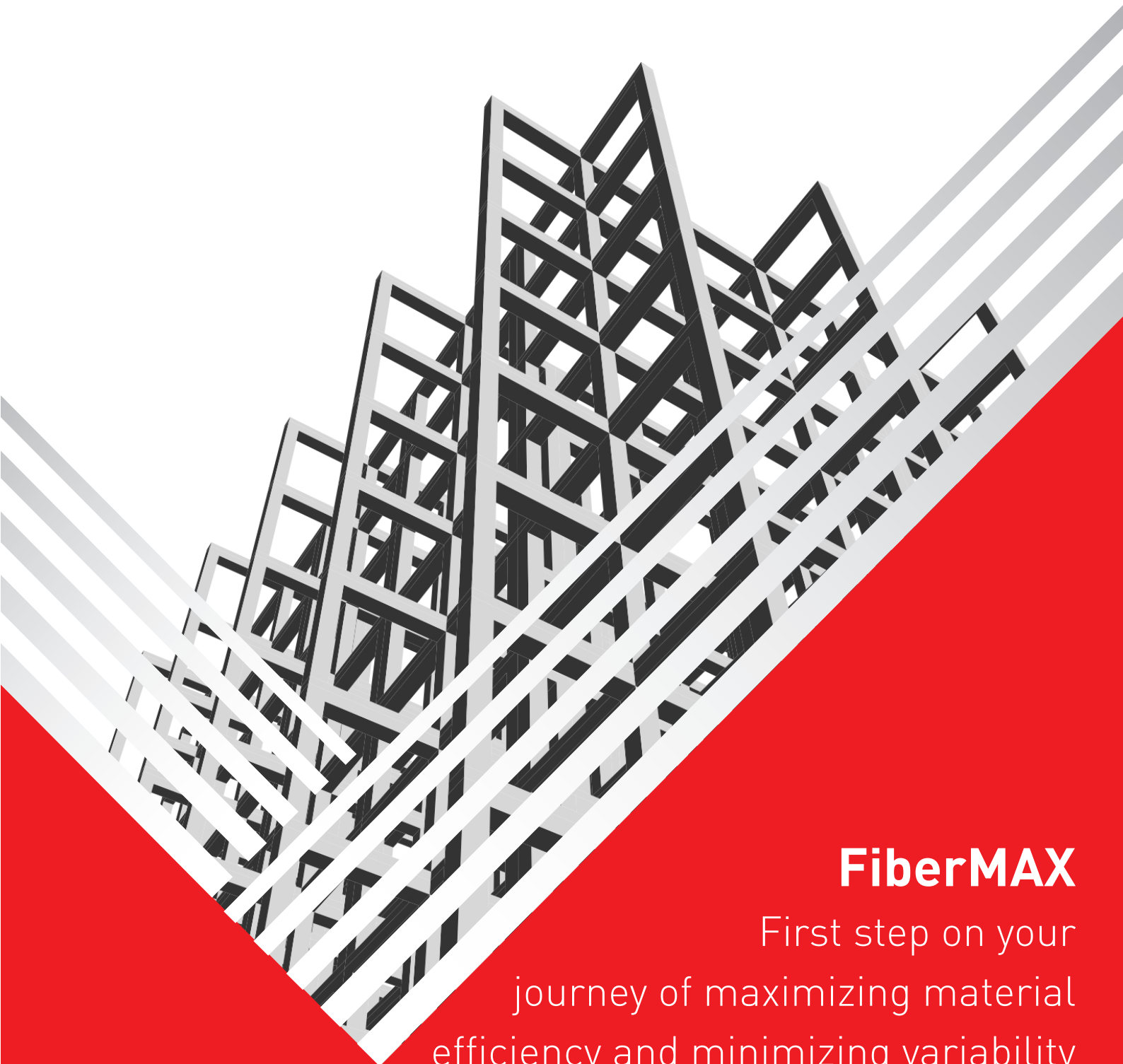




A Voith company



FiberMAX

First step on your
journey of maximizing material
efficiency and minimizing variability

Confidence in the future



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FiberMAX

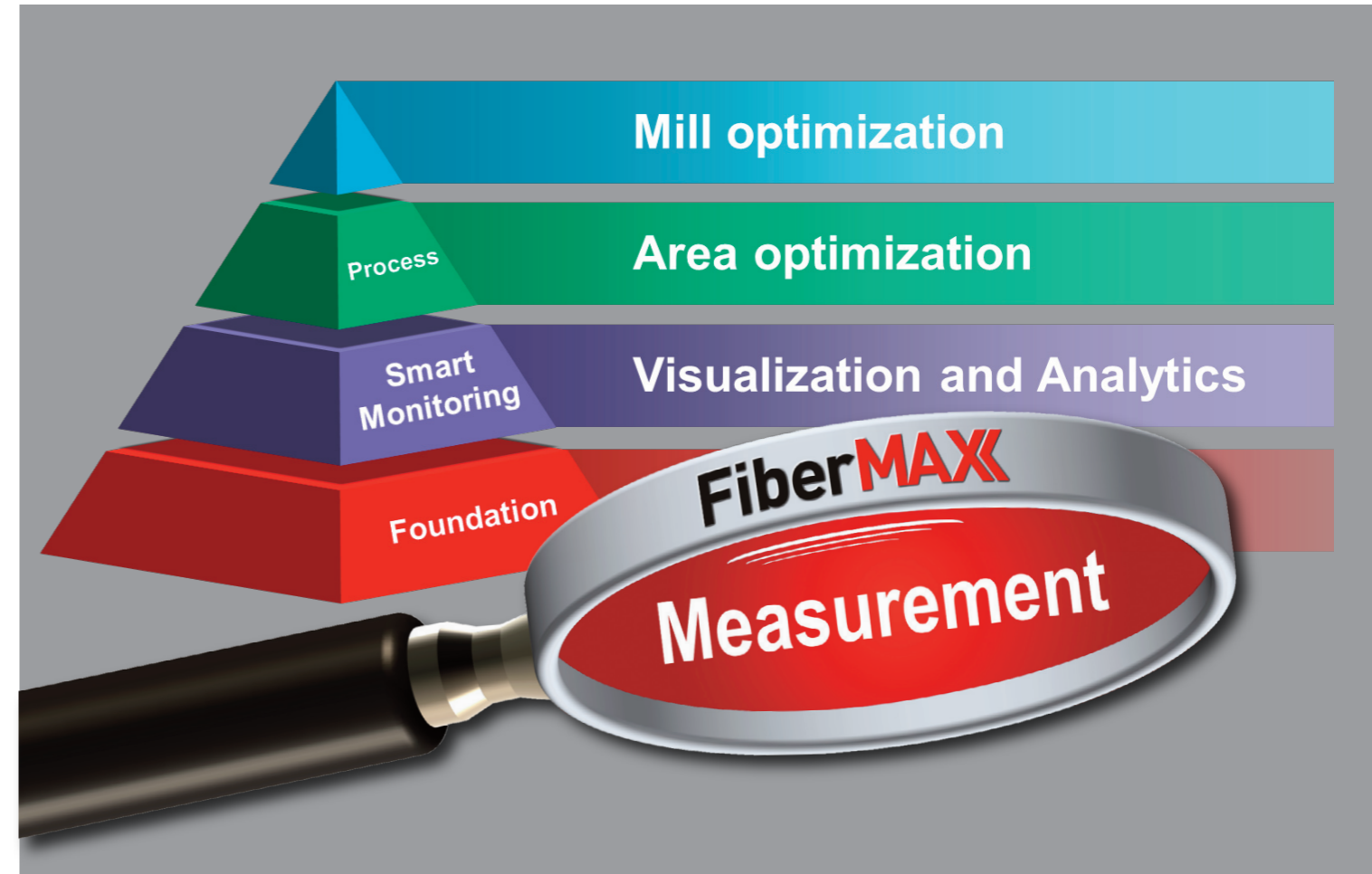
In the papermaking process, everything relies on fiber mass flow. Pulp mix, refining, chemical additions, and basis weight all rely on stable and accurate consistency. Each consistency control loop is part of a chain that is designed to take out variation before key unit operations and sheet forming. Unfortunately, not all control loops are always healthy. BTG's FiberMAX review finds weak links hidden in the chain and outlines the proper steps to bring these control loops back to health.

Fundamentals right from the beginning

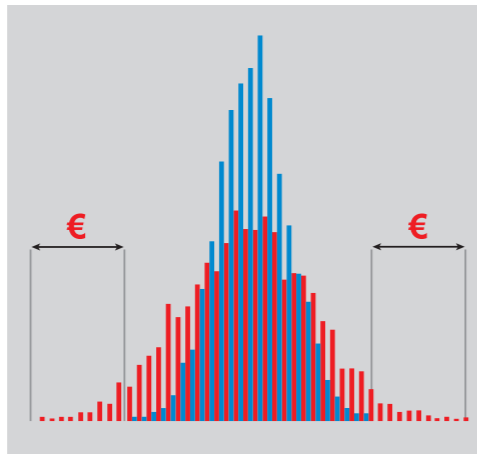
If you cannot measure it, you cannot control it. Especially if advanced control solutions are considered, the underlying conventional controls need to perform well. BTG's FiberMAX ensures that a rock-solid foundation can be established to support state-of-the-art papermaking technology.

BTG makes it easy

BTG experts have clear and proven procedures to evaluate all consistency control loops in a production line. Data on sensor installation points, sampling valves, operation mode, dilution capacity, and variability is collected onsite and then analyzed. An easy-to-follow FiberMAX report will clearly outline all aspects that need attention. The mill's only task is to provide some assistance to the BTG experts while on site (mill safety, process overview, data & picture collection).



CONSISTENCY VARIATION REDUCTION



In any modern paper mill, many controls are relying on consistency. FiberMAX uncovers unhealthy consistency variations and helps to fix them. That will lead to increased material efficiency, better runnability, and higher productivity.

Raw material

A carefully controlled fiber blend is essential to achieve the desired properties in the final product. FiberMAX allows the mill to accurately control the fiber mix 24 / 7 / 365.

Quality

Fixatives, retention aids and functional chemicals are often dosed on a per-ton basis. Reduction of furnish variation helps to stabilize retention, dewatering and paper properties.

Energy

Consistency swings also disturb refining process controls. FiberMAX helps to achieve stable refining conditions ensuring that you reach full potential of your fiber.

Expert review

BTG experts check the entire production line from raw materials to headbox and identify areas which needs attention first. Score cards show critical aspects at one glance.

Position	Loop	Transm.	Sampler	Calib	Dilution capacity	Set point
RF pulper	54RF1					
HD Pulp	54HD001					
SF Tower	54SF001					
LF Tower	54LF001					
Broke tower	54BT001		N/A			
Coated BR	23CB001					
UCoated BR	23UB001					
Wet BR	23MB001					
Dry BR	23BP001					
RF Chest	23BC004			N/A		
Broke chest	23BC001					
LF chest	23LF001					
SF chest	23SF007					
Bchest	23BC001		N/A	N/A		
Mchest	23MC001					

Hardware check

Suitable sensors and samplers mounted properly are prerequisite for accurate measurements and stable dilution loops. BTG has 100-year consistency control experience.



Benchmarking

BTG experts have evaluated hundreds of control loops and know what performance is possible. This is part of review and results are shown in the final report.



About us

The BTG Group is a multinational provider of integrated, highly specialized process solutions for the global pulp and paper industry. Every day our people help customers achieve sustainable gains in business performance through our application know-how and industry-leading technologies. This includes world-leading pulp and paper process control sensors and laboratory instruments as well as rods and beds for film-metering size presses; high-performance ceramic and cermet coating blades; high-performance tissue creping doctors and doctor holders, specialty doctor blades. All of these technologies are supported with expert services and application support.

Our advanced integration philosophy combines high-quality instrumentation, detailed and versatile data analytics and our unique, expert applications experience to provide BTG customers with operational advantages that realise new gains in productivity and profitability.

Headquartered in Eclépens, Switzerland, BTG employs about 600 professionals across the world and operates four manufacturing sites, three research centers and several regional application centers. The BTG Group is an operating unit of Voith Paper (www.voith.com).



Contact

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