Enhancing suction roll performance

TrackLight AR

Suction zones and seal strips are typically inaccessible within the suction roll. With TrackLight AR, it is possible to have a virtual window into the roll, enabling real-time monitoring of both the suction zone and the edge deckle position. This technology ensures consistent settings and minimizes downtime for suction roll maintenance.

Optimum adjustment is the biggest challenge and requires a high level of expertise, because you can't look inside the suction roll. Suction zones are restricted through sealing strips and edge deckles. Both are not visible and only identified through markings on tender side. The suction roll shell covers the suction box, so sealing strips are also not visible.

Suction roll adjustments: todays situation

Edge deckles, current adjustment technique is based on operator experience, as deckles are not visible.

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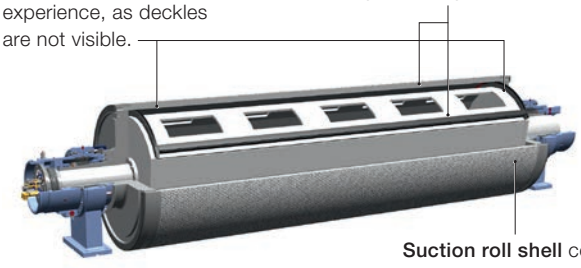


Suction roll shell covers suction box, so sealing strips are **not visible.**

Augmented Reality (AR) has emerged as a groundbreaking technology that combines the digital and physical worlds to enhance our perception and interaction with reality.

At its core, AR supplements our physical surroundings with digital content, seamlessly blending virtual objects and information into our real environment.

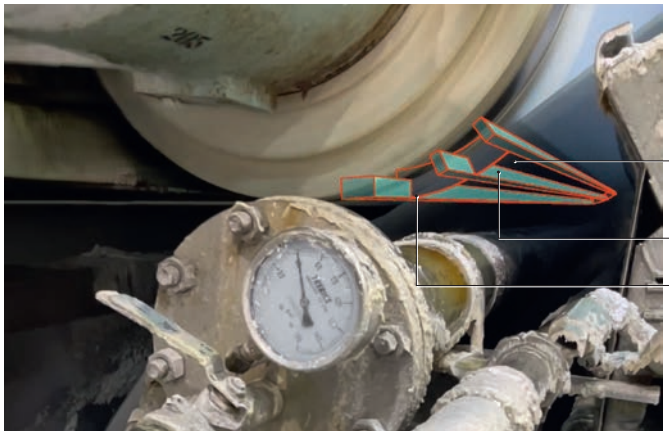
Voith uses this technology to enable papermakers to access relevant but invisible elements to inspect and adjust their suction rolls.

TrackLight AR assists papermakers in finding the optimal configuration, balancing false air and runnability without compromise, leading to significant energy savings.

Advantages

+ **Support customers to retain the knowledge of experienced senior papermakers**
+ **Improved energy efficiency, maximized dewatering and better runnability of suction rolls**
+ **Reliable real-time adjustment of suction box for best dryness**
+ **Reduces time required for adjusting suction box and edge deckles**
+ **Easy visual identificarion of current suction box and edge deckle position**
+ **Quality diagnostic tool for suction zone issue root cause**

Suction roll adjustments: future situation



Seal strips are invisible under the roll shell but with the help of augmented reality they get **virtually visible and detectable.**

Suction zones are **virtually visible.**

The position of the **edge deckles** can be virtually seen during operation.

Please click on this **link** or scan the QR code to visit our Fiber treatment website:

How can we support you? Just contact us via our **webform.**

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