

Critical process measurements for operating TwinRoll press

5 key factors to troubleshooting and maintenance of wash press technology



Roll speed

- Typical range from 3 to 15 rpm
- Should be allowed to fluctuate to accommodate process changes



A-nip

- The distance between the two rolls
- Evaluate the a-nip setting if the roll speed nears max or production rate changes significantly



Line load

- Linear load between the two rolls
- Measures the pulp forces against the roll
- A good indication of press loading (and can alert to uneven pulp distribution)



Torque

- A measurement of the effort to turn the rolls affects the discharge consistency of the pulp



Vat pressure

- A good indicator of how easy it is to dewater the filtrate
- Can be a limiting factor to a press's overall production rate
- Could indicate a high entrained air content in pulp, low feed consistency, and/or scaling on the press rolls



Wash press troubleshooting tips

Troubleshooting Tip #1

Uneven lineload can cause excessive mechanical stress which may lead to bearing failures or cracks in the roll. Poor pulp feed distribution is typically the root cause.

Troubleshooting Tip #2

As the OEM for TwinRoll press technology, Valmet recommends daily testing of discharge consistency. A good operating discharge consistency is considered above 30%.