

# Up to 10% improved washing

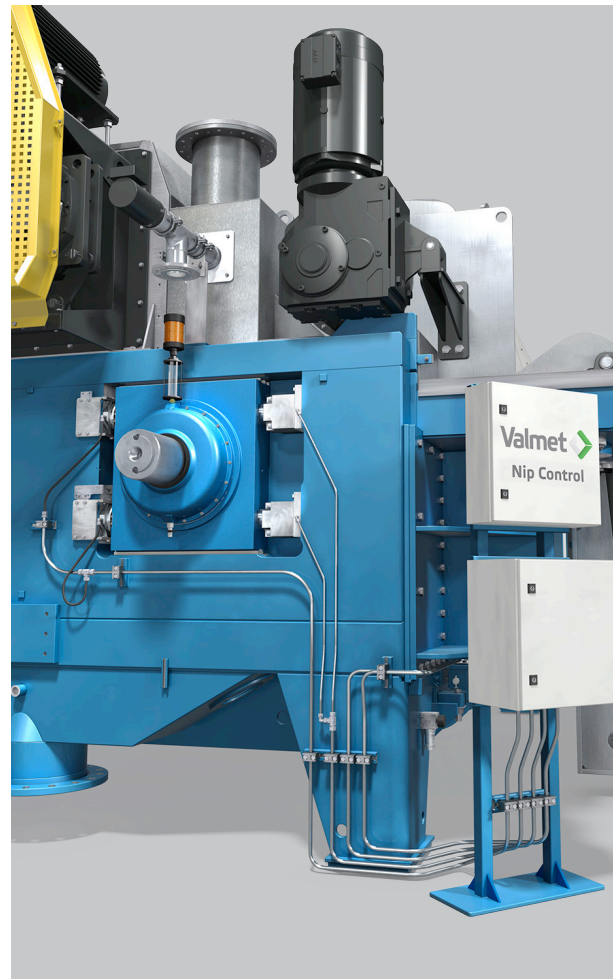
## Valmet Nip Control

Valmet Nip Control is now available to be retrofitted on the generation G2, G3 and G4 presses. Nip Control moves one of the press rolls to optimize the roll nip to compensate for process variations caused by; species campaign, start-up, pulp quality, etc., resulting in better overall washing.

### Improved press operation

Valmet Nip Control will make it easy to control the nip width between the rolls during operation in older TRP presses. By this feature it will be possible to affect the presses operation efficiency, runnability and capacity. This is the key to bring dewatering and washing to a new level.

- Shorter start-up time
- Increased production rate
- Better dewatering = improved washing
- Reduced chemical consumption
- Short pay back time.



### Example of improved washing and chemical savings in a HW/SW swing mill – pre-bleach position

#### Example

**10%**

improved washing in a HW/SW swing mill – pre-bleach position.

**100 800 €/y**

Production rate 1000adt/d

HW operation 50%, SW operation 50%

COD carryover to BP prior to installation 12kgs/adt

Average increase of discharge consistency 3%

Reduced COD carryover to bleach plant 1,2kgs/adt

Reduction of ClO<sub>2</sub> (as active) consumption in D0 stage 0,72kgs/adt

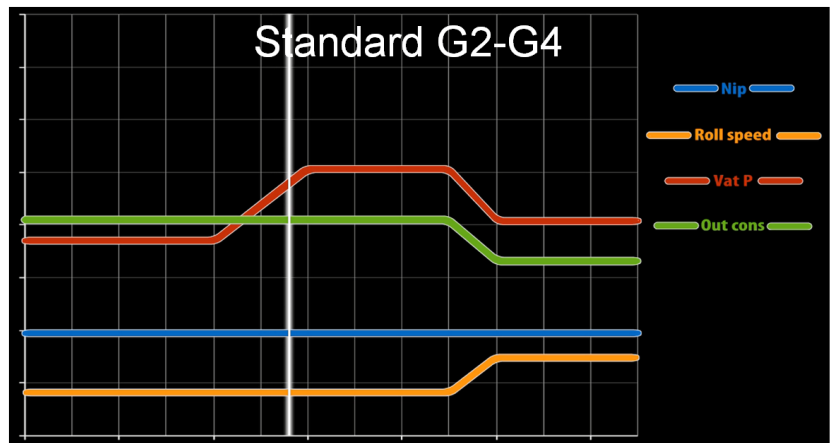
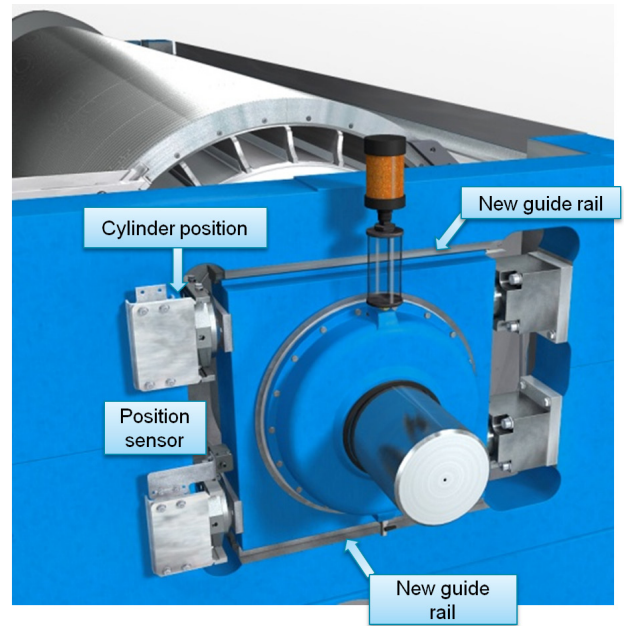
Cost of ClO<sub>2</sub> (active) 0,4 EUR/kg

$0,72 \times 0,4 \times 1000 \times 350 \text{days/y} = 100.800 \text{ EUR/y}$

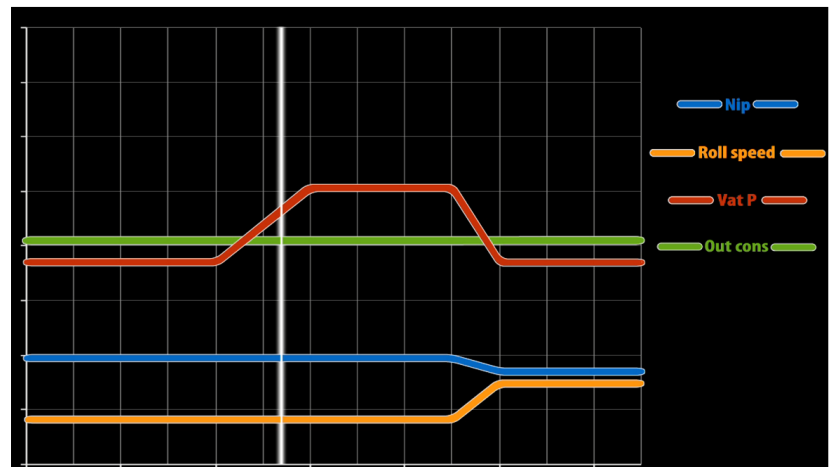
## Product Description

The system consist of two hydraulic cylinders mounted on both sides of the roll so that the roll can be moved a few millimeters in both directions to reduce or increase the nip width. Equipped with a guiding system, the roll will move horizontally with the help of the hydraulic power unit which force the cylinders to move as needed.

Responding to a signal, vat pressure, the control will put the cylinders in motion to maintain the set pressure in the DCS. The system will also maintain the parallelism of the cylinder to the stationary one.



*Fixed A-nip – Increase in production = higher load = roll speed must be increased but outlet consistency will drop*



*With Valmet Nip Control – the same increase in production, the nip and roll speed will compensate to optimize the operation and outlet consistency*