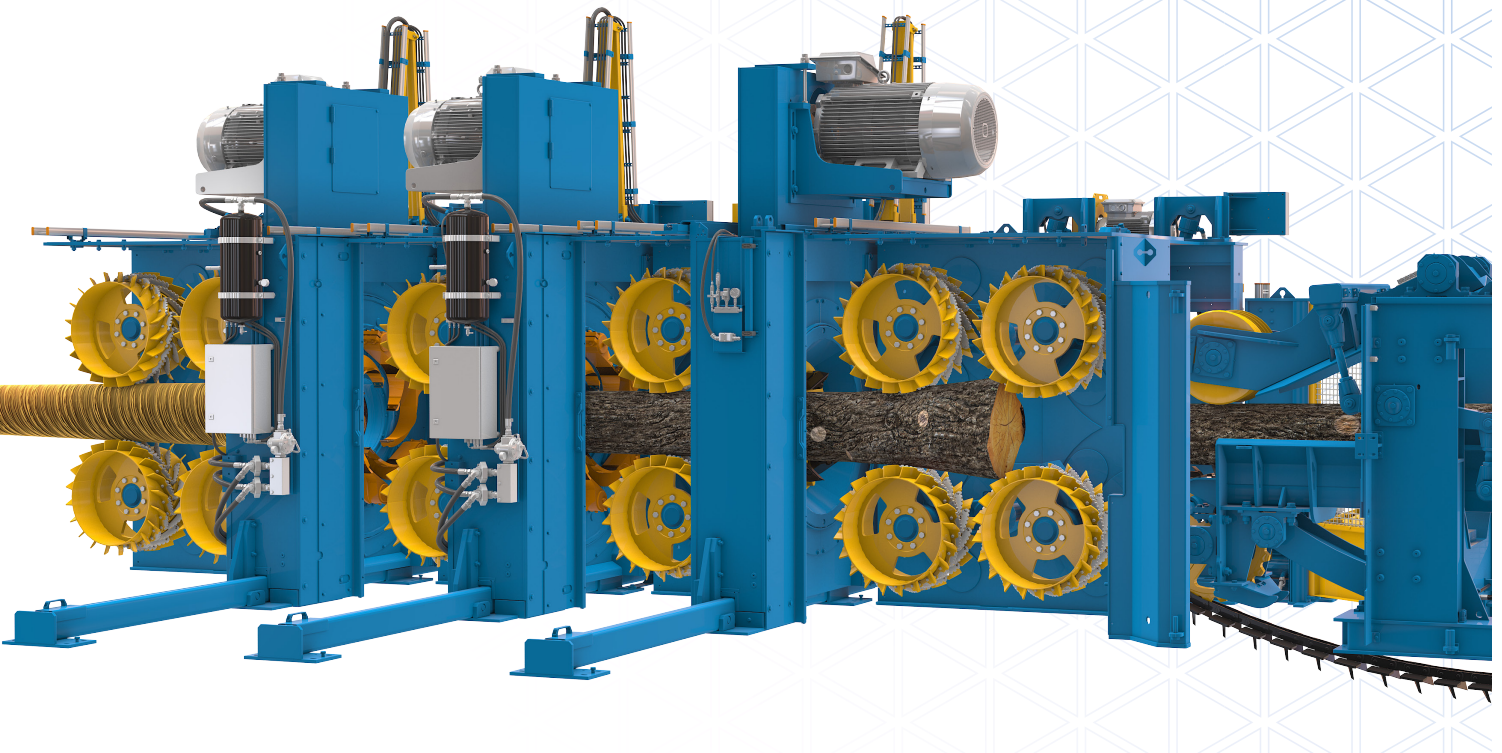


# Feedroll prestaging system

For optimizing the log infeed



Mechanical stress can affect logs being transported through the debarker. Hydraulically pressed feedrolls are in contact with the logs the entire time each log is inside the machine. Especially in high-speed debarking and/or in debarking frozen logs, the damages on the log-ends caused by the feedrolls can be prominent. At worst, the feedrolls can cause log damages in the log-ends and on the log surface.

With Valon Kone's new prestaging system of the feedrolls' hydraulics, a significant part of the log-end damages caused by debarking can be prevented or at least the risk can be minimized significantly.

The new system can be installed in all VK debarkers equipped with active hydraulics. Many satisfied VK customers worldwide have proven the efficiency, reliability, and advantages of the new prestaging system.



## Features



- The feedrolls' pressure is achieved hydraulically from the powerpack connected to the debarker
- Pressure level is selected from the control panel or automatically according to the log size
- Two-stage pressure for feedrolls: Low holding pressure is on until the log is in between the rolls; the log is being pressed with a higher working pressure only at this stage (= soft-opening function). See picture 3. + 4.
- A separate lock valve blocks the feedroll from closing when the log leaves the rolls; the rolls will remain in open position until the next log. See picture 3.
- When the log diameter is smaller or bigger than the previous log, the hydraulic cylinder is controlled to reposition the feedrolls according to the log size, so that it will be optimal for the next log
- The needed information of the log size will be received from the light curtain connected to the VK infeed conveyor
- Feedroll prestaging system will automatically deactivate when debarking logs that are too short for the system (information of the log length is received from the light curtain)

## Benefits



- Minimizes the risk for log-end damages, as no need to push the log against the feedrolls
- A smaller risk for log damages caused by the debarking tools, as the feedrolls won't damage the log-end and expose it to stresses caused by the tools. See picture 2.
- Less mechanical stress on the machine, as the log is not pushed against the feedrolls which leads to lower maintenance costs
- Cuts down the need for a hydraulic capacity, while only the locking feature of the conveyor's pressing roll and of the feedrolls position is activated. For example, when the debarking is in the sawmill infeed for sorted logs and the log is turned to go top end first. See picture 1.
- Simple operation principle guarantees steady production



Picture 3.



Picture 4.

## Technical data

Debarker model	VK450 series	VK550 series	VK820 series	VK5000 series	VK8000 series
<b>Applicable</b>	Yes				
<b>Type of hydraulics</b>	Active hydraulics with a power-pack				
<b>Capacity for hydraulics</b>	Will be double-checked case by case				
<b>Type of PLC</b>	Siemens S7 Classic/TIA				
<b>Circulation speed of the program</b>	Max. 10 ms				

When inquiring about the new feedroll prestaging system, please inform us of the machine model/type, serial number, and manufacturing year. This will help us serve you better.

**For example:** VK550, 123/1995

The machine's type number can also be in the format 550-480-6-450-RHP

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