



PULP & PAPER

**PREDICTIVE
MAINTENANCE
AND SERVICE FOR
*PrimePRESS X***

**SHOE PRESS SERVICE FOR PAPER,
BOARD AND PULP DRYING PRODUCTION**

ANDRITZ

ENGINEERED SUCCESS



Predictive maintenance and service for *PrimePress X*

In paper, board and pulp drying machines, the shoe press is an essential part of your machine to ensure lowest thermal energy consumption in the drying section in combination with excellent sheet quality at the highest specific production rates.

SERVICE FOR *PrimePress X*

The shoe press is subject to extraordinary high loads and stresses, due to the high nip forces (nip load) between the *PrimeRoll X* and the corresponding counter roll (Conventional or *PrimeRoll HV SMART*). Consequently, *PrimePress X*, as with other key equipment and modules of your machine, requires regular maintenance to ensure safe operation and maximum reliability.

ANDRITZ offers a team of experienced supervisors for on-site shoe press overhauls, including the delivery of only high-quality spare parts to ensure minimal production interruptions and a smooth production restart after the service.

Our dedicated team will also advise you on spare parts, the latest state-of-the-art upgrades, and help you with the overall planning of the on-site service.

During most shoe press services, the counter roll (Conventional or *PrimeRoll HV SMART*) is also exchanged. For the counter roll, ANDRITZ is able to offer professional and extensive roll service expertise in our specialized roll workshops. Every roll entering our workshop undergoes a sophisticated and standardized overhaul process to ensure the fastest repair times and highest refurbishment quality.

PREDICTIVE MAINTENANCE AND SERVICE PLAN

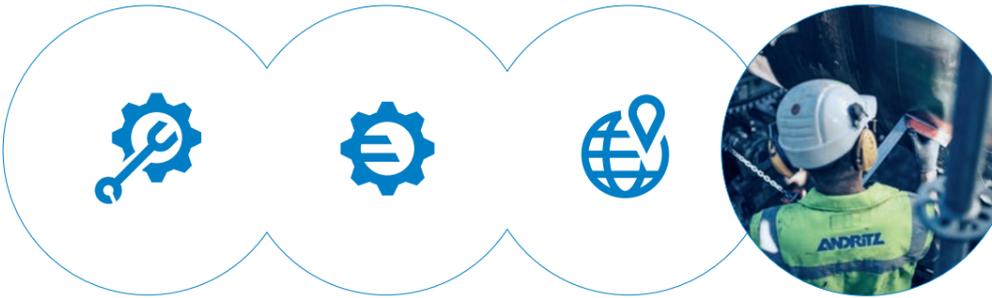
Shoe presses are exposed to high stresses and loads, and the associated potential risk from a lack of maintenance is sometimes underestimated. Professional and continuous maintenance is the key to avoiding major machine damage, which can result in unplanned production shutdowns, high repair costs, and endanger employees.

Recommended maintenance and service intervals for shoe presses can be found in the maintenance and service table. ANDRITZ would kindly like to draw your attention to the specific safety-relevant components, which must be exchanged no later than the operation and running times mentioned in the table.

BENEFITS

- Ensure maximum machine safety & reliability
- Prevent unplanned shutdowns and production losses
- Maximum functionality & production quality
- Avoid extensive refurbishment costs caused by machine damage from a lack of maintenance

PrimePRESS X / ANDRITZ shoe press technology

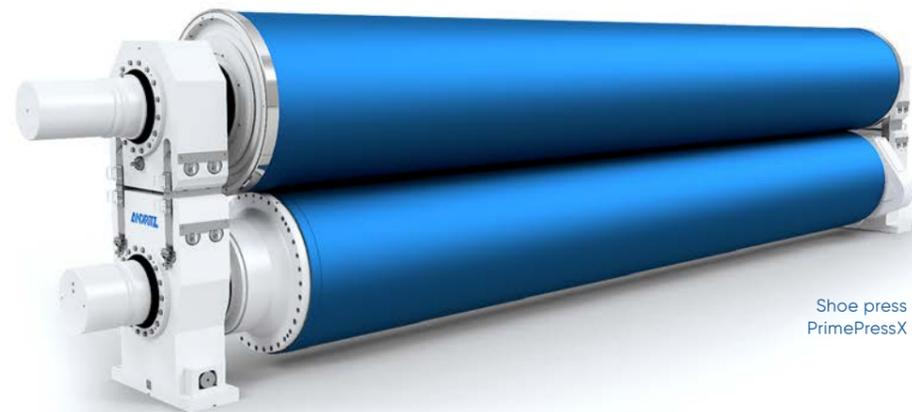


ANDRITZ Maintenance program & service plan

Please note that your *PrimePress X* may vary in terms of the design and spare parts listed in the table below. If this is the case, please consult an ANDRITZ expert for further support.

COMPLETE *PrimePRESS X* MODULE

Equipment	Action & suggested time schedule				Location	Personnel	Additional information	Suggested spare parts to be kept in stock at customer site
	Monthly	Annually	Years	On Demand				
Complete PPX module								
Clamping system (shackles) incl. small parts	Inspection	x			O	C or A	Critical, safety relevant component Visual check for corrosion (Corrosion needs to be avoided)	Complete Set
	Exchange		5		O	A		
Mechanical press alignment	Inspection				x	O	A	
	Inspection		3		x		A	
Bearings vibration monitoring	Monitoring					C or A	Option: ANDRITZ continuous condition monitoring	
	Monitoring				x	O		



Shoe press PrimePressX

PrimeROLL X

Equipment	Action & suggested time schedule				Location	Personnel	Additional information	Suggested spare parts to be kept in stock at customer site
	Monthly	Annually	Years	On Demand				
PrimeRoll X								
Standard overhaul	Overhaul		3		O	A	Set of parts like sealings, bolts, internal parts etc.	Spare part set
	Overhaul		5-8		O	A	Set of spare parts including loading elements, loading pistons, pipings etc. Exchanging the loading pistons too late can lead to major press malfunctions	Spare part set
Crosshead	Inspection		3		O	A	Critical, safety relevant component	
	Exchange		3		O	A		1 set
Shoe belt	Inspection	See additional information			See additional information	See additional information	Inspection and exchange interval needs to be decided and improved together with the belt supplier	2 pcs.
	Inspection	During belt change			O	C or A	Visual inspection during every belt change.	1 pcs.
Shoe	Overhaul		5-8	x	A	A	Used shoe can be exchanged on-site and refurbished in ANDRITZ workshop	
	Inspection		x		O	C or A		
Boundary discs (OS and DS)	Standard overhaul		3		O	A		Complete set of spare and wear parts (small spare part set)
	Extended Overhaul		5-8		A	A	Used boundary discs can be exchanged on-site and refurbished in ANDRITZ workshop, depending on inspection and condition during standard overhaul	On demand
	Inspection		x		O	C or A		
Belt doctor	Inspection	During belt change			O	C or A	During every belt change, check if the air hose is tight and if the doctor blade is in a good condition	Air hose + doctor blade
	Exchange		1		O	A	Exchange of air hose and doctor blade during annual shut-down	

COUNTER ROLL – PrimeROLL HV SMART

Equipment	Action & suggested time schedule		Location	Personnel	Additional information	Suggested spare parts to be kept in stock at customer site
	Years	On Demand				
PrimeRoll HV-Smart (Counter Roll)			On-site (O) or in ANDRITZ workshop (A)	Customer (C) or ANDRITZ supervisor recommended (A)		
Standard overhaul					Depending on inspection and condition during standard overhaul. Used roll can be exchanged on-site and refurbished on-site or in ANDRITZ workshop (Recommended). In general, roll should be based on the condition of the cover. Set of small parts like sealings, bolts, internal parts etc.	Complete Set (Small part set)
Overhaul	3		O & A	A		
Extended overhaul						Complete Set (Extended spare part set)
Overhaul	5-8		O & A	A	Exchanging the loading pistons too late can lead to major press malfunctions. Depending on inspection and condition during standard overhaul. Used roll can be exchanged on-site and refurbished on-site or in ANDRITZ workshop (Recommended). In general, roll should be based on the condition of the cover.	
Crosshead					Critical, safety relevant component	
Inspection	3					
Shell					Critical, safety relevant component	1 pcs.
Inspection	3		O	A		
Overhaul	5-8		A	A	Used shell (or complete roll) can be exchanged on-site or in ANDRITZ workshop and refurbished in ANDRITZ workshop.	
Gearbox drive unit					Critical, safety relevant component	1 pcs.
Inspection	3		O	C or A		
Overhaul	5-8		A	A	Used gearbox can be exchanged on-site or in ANDRITZ workshop and refurbished in ANDRITZ workshop.	Set of spare parts including loading elements, loading pistons, pipings etc.

COUNTER ROLL – CONVENTIONAL

Equipment	Action & suggested time schedule		Location	Personnel	Additional information	Suggested spare parts to be kept in stock at customer site
	Years	On Demand				
Conventional counter roll (Counter Roll)			On-site (O) or in ANDRITZ workshop (A)	Customer (C) or ANDRITZ supervisor recommended (A)		
Complete roll					Critical, safety relevant component	1-2 pcs.
Inspection & overhaul	2		O & A	A	Basic inspection of conventional counter roll including exchange of journal bolts & friction foils.	
Bolts & friction discs						Complete set
Overhaul	4		O & A	A	Used roll must be exchanged on-site and refurbished in ANDRITZ workshop.	
Bolts & friction foils between journals & shell						Complete set
Exchange	2		O	A	After 2 years in operation all bolts and friction foils between the journals and the shell should be exchanged.	

HYDRAULIC PNEUMATIC AUTOMATION

Equipment	Action & suggested time schedule				Location	Personnel	Additional information	Suggested spare parts to be kept in stock at customer site
	Monthly	Annually	Years	On Demand				
Hydraulic Pneumatic Automation					On-site (O) or in ANDRITZ workshop (A)	Customer (C) or ANDRITZ supervisor recommended (A)		
Hydraulic System general								Set of most important auxiliaries
Inspection	3				O	C		
Overhaul			3-5	x	O	C or A	Exchange of parts - Depending on condition & components	
Hydraulic dampening unit								Complete Set
Inspection	6				O	C or A	Nitrogen pressure needs to be checked and refilled, if necessary	
Exchange			3-5		O	A	Depending on condition & components	
Hydraulic hoses							Critical, safety relevant component	
Exchange			6					
Check oil contamination & quality							Critical, safety relevant component	Complete Set
Inspection	3				O	C		
Pneumatic system in general							Critical, safety relevant component	Set of most important auxiliaries
Inspection	3				O	C		
Overhaul			3-5	x	O	C or A	Exchange of parts - Depending on condition & components	
Automation system in general								
Inspection				x	O & Remote	C or A	General functionality	Set of major automation parts
Cyber Security & License								
Inspection		x			O & Remote	C	Check if software is up-to-date and license is still valid	

The information in this document is intended solely as a suggestion from ANDRITZ – the equipment owner is fully responsible for the operation and maintenance of the equipment.

There is no claim for completeness of this document, or any kind of warranty or guarantee.



PrimeService FOR PAPER AND BOARD: IMPROVE YOUR MACHINE PERFORMANCE

ANDRITZ supplies spare parts and engineered wear products and provides customer-specific maintenance and upgrade services for your paper mill from stock preparation to the reel, including automation solutions and pumps.

Our service specialists are skilled and experienced at raising the production efficiency of a machine, process step, or production line. Their knowledge helps protect and extend the life of your equipment and lower your overall operating costs. The huge variety of ANDRITZ upgrade products provides performance improvements, energy, and cost savings, as well as return on investment (ROI) within the shortest time. We work closely with you to monitor, maintain, repair, and upgrade your assets. We provide you with complete technical, mechanical, and personnel support regardless of who originally manufactured your equipment.

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