

The ANDRITZ logo is displayed in a stylized, blue, sans-serif font on a white rectangular background, mounted on the side of a large industrial machine.

NONWOVEN
**PA.3000 ELLIPTICAL
CYLINDER PRE-NEEDLER**

HIGHER NEEDLING CAPACITY
AND WIDER LINE APPLICATIONS

**BEST PRODUCTIVITY
FOR LOW WEIGHTS**

The new elliptical cylinder pre-needler PA.3000 is the ideal solution for processing fiber matts with new capabilities to freeze the fabric evenness, as it operates with no internal draft and with more than 70% extra surface impact needling

capacity than the already existing technology. It perfectly matches the markets requiring high visual aspect products and productivity. The PA.3000 is equipped with a strong carbon fiber moveable beam to accept the higher stroke speed and width with minimum flexion tolerance. The loose fiber matt is

compressed and fed into the needling zone without draft followed by the draft free pre-needling process. As a result the web layers are stitched together with optimum cohesion to preserve the web surface evenness, minimizing the risk of creating clouds as when using other pre-needler designs.

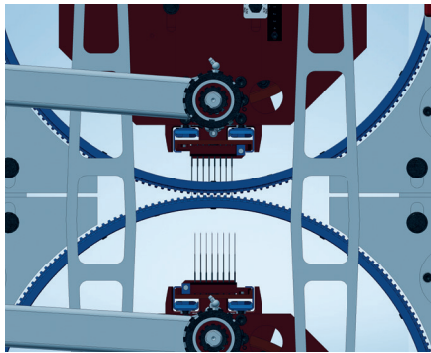
The ANDRITZ logo is shown in a bold, blue, sans-serif font.

ENGINEERED SUCCESS

More needles for processing an even surface aspect

IMPROVED NEEDLING DENSITY

The design of the elliptical PA.3000 allows to have more needles per linear meter (1,280 n/m per board) by reducing the distance between needles. Needle impacts on the fabric surface are then increased by more than 70%. Thanks to the new design and distribution of holes on the cylinders, it increases the number to eight rows of needles over the board width.



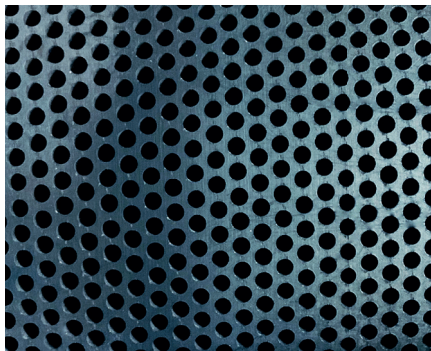
Kinematics of the needleloom

MAIN SPECIFICATIONS

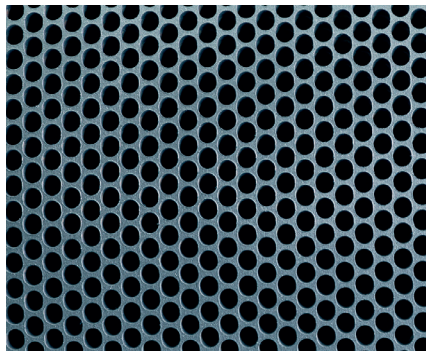
- Working width: from 3.00 m up to 6.75 m
- Advance speed: up to 18 m/min or 40 m/min (stroke unclutched)
- Upper needle beam (optional)
- Needle pattern: 1,280 needles per meter (per needle board)



Easy access for operators and pneumatic clamping system



PA.2000: Cylinder pattern



PA.3000: Enhanced cylinder pattern

BENEFITS

- Increased and improved needling density
- Working width up to 6.75 m
- Highest production speed
- Improved fabric visual aspect
- Operator-friendly (easy to operate)
- Low maintenance requirement

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