

MELTBLOWN PILOT CAPABILITIES

The Nonwovens Institute at North Carolina State University offers state-of-the-art technology and deep expertise in meltblown nonwoven applications.

The Nonwovens Institute features a 1.2-meter wide Reifenhäuser Reicofil pilot line with recently updated software and control systems. Along with NWI's many years of experience in developing meltblown nonwoven applications, this stand-alone machine provides the ability to test a wide range of polymers, including polyolefins, polyamides, polyesters, elastomers, PLA and many others. Importantly, this meltblown system includes in-line electrostatic charging capability (corona).



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Meltblown Lab - Equipment Specifications

No. of Beam	1	Width (m)	1.2
Line speed (m/min)	1-100	Dosing units for additives (%)	1 @ 0.5-3; 1 @ 2-10
Die to Collector distance (mm)	150 to 500	Dies (HPI); Capillary Size (microns)	20 600 25 Mixed 600; 300 35 400 45 300 60 300 60 250 75 180 6-row Biax 500
Collector table angle	Adjustable to 20	Conveyor belt	Polyester woven
Extruder size (mm); L/D	70; 30:1	Winder (Type); Core Size (inches)	Automatic surface driven; 3"
Max die temp (C)	310	Tension control (N)	10 to 160
Max air temp (C)	350	Max air volume (m³/hr/m)	2,000*
Electrostatic charging capability (corona)			4 charging bars, up to 50 kV per bar.

*The max air volume of this line represents unique capability, as typical units max out at ~1,200 m³/hr/m.



Scan this QR code to ask questions and receive feedback from NWI's meltblown nonwovens experts.

To learn more about NWI, please email us at nonwovens@ncsu.edu or visit www.TheNonwovensInstitute.com