

IN-LINE MDO UNIT

Orienting films is not new. Its rapidly growing awareness as a means to enhance sustainability aspects in film applications is. To help our customers across the value chain better understand these opportunities, we've installed an in-line MDO unit aligned with our W&H 9-layer blown film line – **the only such commercial scale unit** available for research purposes in North America.

Commercial Scale for real-world experience

Pack Studios' MDO stretching unit has 12 rollers for pre-heating, stretching, annealing and cooling, enabling targeted modification of the film properties by mono-axial stretching of the film in the machine direction.

Running and learning across many applications

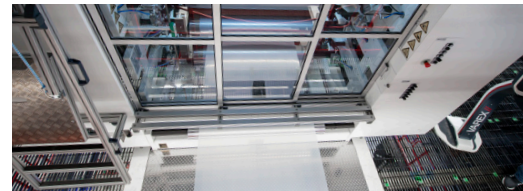
The MDO is generating physical samples designed for use in markets such as print web, sealable MDO, and barrier films. These samples are being tested to generate baseline data for properties such as optics, tensile/modulus, heat sealing, shrinkage, etc.

Testing today and tomorrow

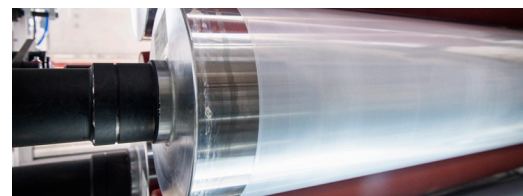
Pack Studios' robotic, high-throughput testing lab is being utilized to increase testing productivity, data consistency and robustness of the films developed on the MDO unit. Testing will continue past the preliminary stages and be available for customers to ensure their films meet expectations.



This distinctive capability offers options for all-PE packaging designs that would otherwise consist of multi-material, non-recyclable solutions.



The Pack Studios team is gaining key understandings of the MDO process to establish best practices which will bring efficiency and value to customer projects.



This machine will be leveraged across all regions to accelerate the scale up of MDO film formulations, a primary enabler for Dow's "Design for Recyclability" initiative.

Pack Studios exists to enable collaboration and accelerate the development of innovative and sustainable packaging. The in-line MDO Stretching Unit is helping achieve new opportunities for high-performance films and furthering abilities to design for recyclability.

There's much more to discover. Find out more at www.dow.com or contact your Dow sales or TS&D professional.

