

Process Applications

From batch ovens and conveyorized systems to sophisticated flotation dryers for delicate films, ASI can provide the *right* custom solution for your drying and curing requirements. We believe that knowledge, experience, and commitment are key factors in attaining the best drying solution. Our engineers have the product knowledge and process expertise to establish the right blend of innovation, practicality, and cost effectiveness.

Having the most comprehensive array of drying technologies is only part of the answer...knowing how and what technology to use is equally important.

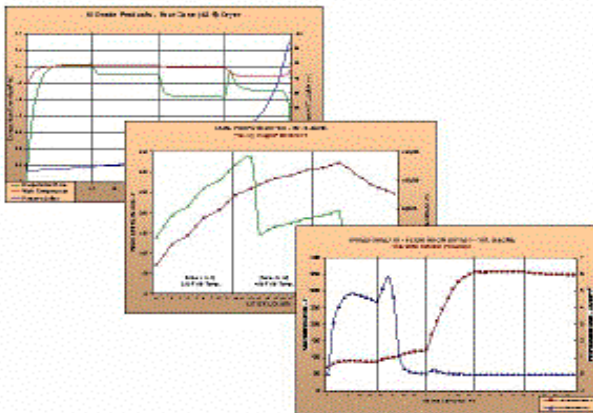
By working together, we seek to incorporate the clients' unique knowledge of their product with ASI's comprehensive



Custom Solutions

Every custom dryer design begins with the ADDS (Advanced Dryer Design and Simulation) computer model developed exclusively for ASI. The model integrates theoretical and empirical data regarding product parameters (mechanical, optical, chemical, physical), drying constraints, operating objectives (e.g. speed, space limitations), and dryer characteristics to model dryer operation within 1% of the actual performance.

ASI engineers can then draw upon an unequaled inventory of patented component and system designs to provide the most appropriate drying solution. By continuously incorporating new technologies, ASI is



Product parameters are defined by precise computer models.

Proven Performance

ASI's position as the industry leader in drying and web handling technology is based on their ability to provide the most appropriate and cost-effective solutions. ASI drying systems have proven their ability to perform in some of the most demanding applications in the converting and paper industry; including but not limited to...

- Abrasive coated webs
- Barrier coated films
- Carbonless and thermal coatings
- Clay-coated paper and board
- Cleanroom applications
- Electronic components materials
- Filter media
- Flexible circuit materials
- Magnetic media film
- Medical/sanitary
- Non-woven fiberglass substrates
- Optical quality products
- Photo sensitive materials
- Plastice, film, and foil laminates
- Pre-pasted wall coverings
- Pressure sensitive adhesives
- Protective overcoats
- Saturated/impregnated materials
- Silicone release webs
- Transdermal medical webs
- Water-based/VOC solvent coatings

Process Applications



Multi-zone flotation dryers can provide independent and controlled drying rates while maintaining a straight and stable web at lengths up to 200 feet.



Pilot or laboratory dryers will be custom-configured to process a variety of web weights, temperatures, and drying methods.



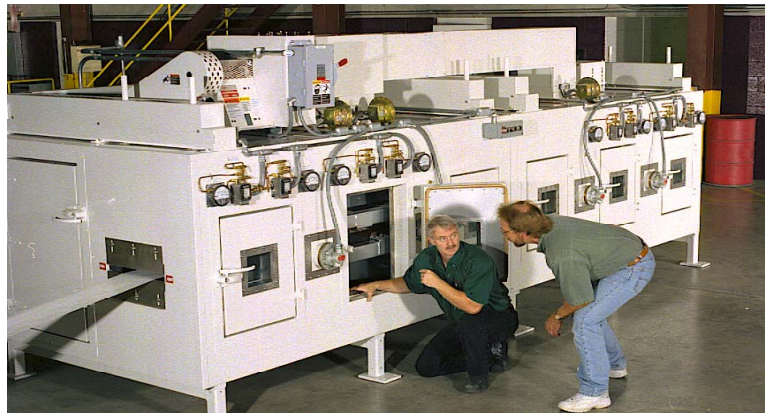
Inert Ovens and Dryers rely on a proprietary air-seal to maintain an oxygen-deprived environment.



This conveyor-supported thru dryer is among the widest high-resolution dryers in the world. The non-woven product web is 16 feet wide and traverses 7 individual dryer zones while drying and curing.



Dryers and cure ovens are combined to form an integrated process line for producing pressure sensitive adhesives.



Narrow-web products can utilize the full array air foil, air bar, roll support, hole bar and/or slot nozzle drying technologies.



Vertical and horizontal dryers commonly used in the printing industry provide a compact design through integration of air heaters, recirculation fans and exhaust units.

ASI Advance Systems, Inc.

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... Where New Technology is in the Air

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