

# Forming Systems Solutions

## Optimize fourdrinier performance

**KADANT**  
AN ACCENT ON INNOVATION

Forming systems  
water and fiber  
management



Improve machine productivity, quality, and efficiency  
by optimizing wet end performance.

# Formation

# Water Management

## Forming zone

- ▶ Sheet and fabric support
- ▶ Control drainage and shear
- ▶ Manage impingement angle of jet

## Activity zone

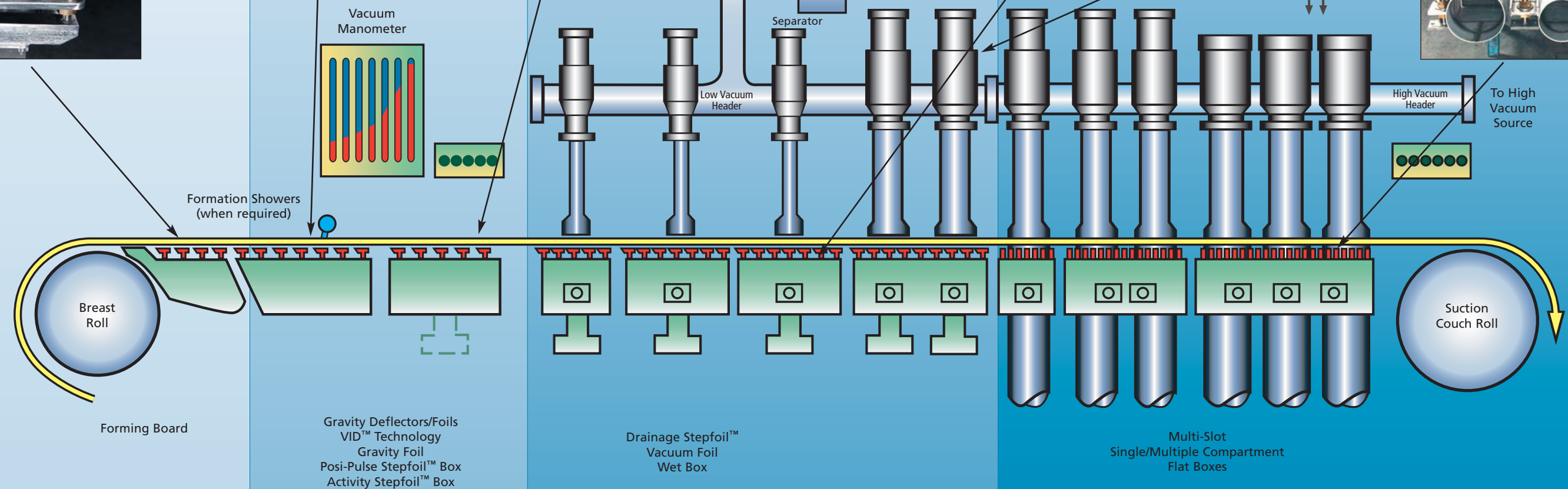
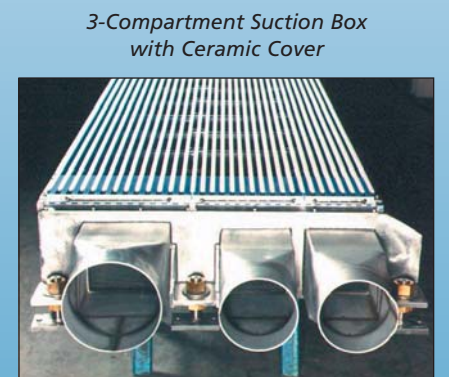
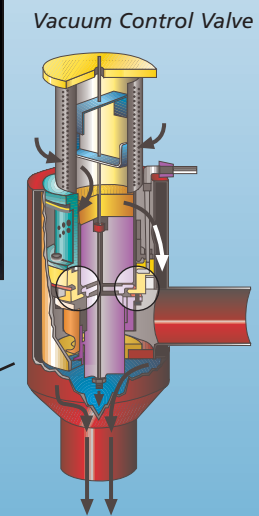
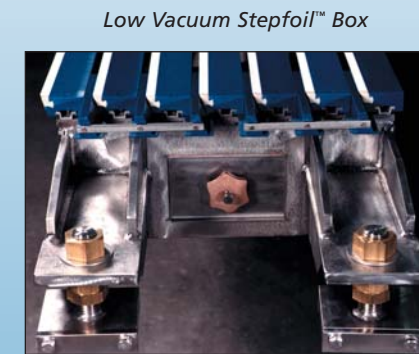
- ▶ Create managed activity to minimize flocks
- ▶ Promote "thickening" of sheet to reduce two-sidedness
- ▶ Form a homogeneous sheet through fiber distribution

## Consolidation zone

- ▶ Solidify the sheet using low vacuum
- ▶ Control vacuum to maximize retention

## High vacuum dewatering zone

- ▶ Graduate high vacuum to minimize drive load impact
- ▶ Create minimal turbulence by using narrow slots
- ▶ Use managed high vacuum to strip water from the sheet



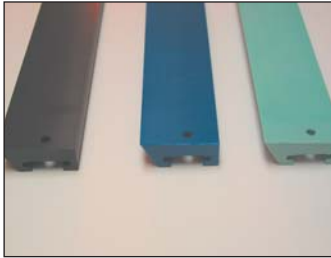
# Kadant Forming Systems Solutions



Forming Board Assemblies

VID™ Velocity Induced Drainage Technology

Actiform™ Assemblies



Gravity Foil Assemblies

Stepfoil™ Assemblies



Low Vacuum Boxes

Single and Multiple Compartment Suction Boxes

Vacuum Control Systems



Formation Showers

Edge Deckle Boards

Durwear™ Polyethylene Wear Surfaces

Ultrawear™ Ceramic Blades and Covers

Manometers



Octopus™ Radial Distributors

Forming Systems Audits

Engineered Solutions to Wet End Problems

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