



TECUMSETH  
GROUP

**ECS** *Uptime by Design*

## Significant cost savings with real-time analysis and video capturing tools in paper and tissue mill applications

**Digital based *Event Capture* for *timely and valuable insight* into high speed web product manufacturing problems**



### GigE Data Transmission

- Higher Resolution
- Higher Frame Rate
- Cost Effect **Upgrade** Path
- Off-The-Shelf Computer Components
- Wireless Capability
- Up to 4 Cameras per Computer

### LED Lights

- Primary Light Component
- No Heat - No Cooling
- Pulsed Flash
- Better Illumination
- Energy Efficient - Low Power Consumption
- Rugged

### RetroSpek™ Video

- Records High Frame Rate & High Resolution Video
- Real-Time Viewing
- Continuous Buffering
- Up to 3200 Frames/Sec
- Plug and Play Setup
- Remote Access & Control
- Expandable
- No Compression

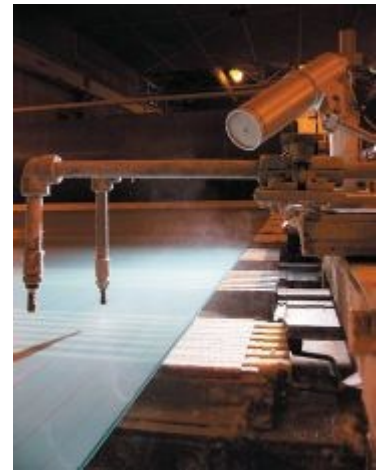
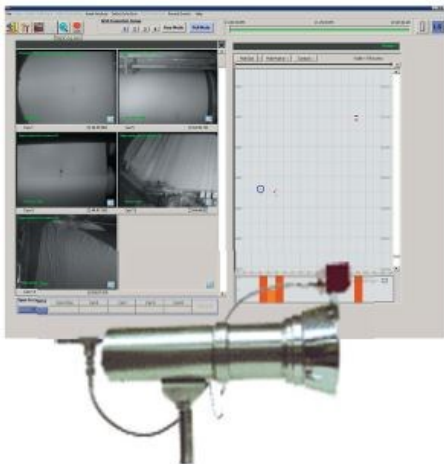
### **Tissue Machine Reel Turn-up Problem Solved**

Problem: Five or six bad turn-ups every day

Solution: ECS Uptime Camera System at reel, 8 millisecond video capture

Found: Glue spray timing for turn-up not controlled to speed or operation

Result: Bad turn-ups reduced to zero



### **Lightweight Product Manufacturer Hole Problem Solved**

Problem: Customers reporting holes in sheet

Solution: ECS Uptime Camera System with Defect Analysis software

Identified: Selectable threshold hole size alerts operator and logs holes

Result: Defects identified, causes traced, 80% reduction in holes

#### **Paper Mill Systems**

Mobile and Permanent

- 1 to 444 Cameras

Portable Laptop ECS

- 1 to 2 Cameras

#### **Testimonial**

"The ECS Camera System helped us locate and resolve the water dripping issues that we had on the machine; no one believed it could be water drops until they saw it on the screen."

### **Newsprint Machine ..... Problem Solved**

Problem:

Solution: ECS Uptime Camera System with Defect Analysis software

Identified:

Result: