



High-Speed Video Applications

Manufacturing & Packaging

- **Equipment Design and Development**

By allowing engineers to record and measure events that the eye cannot see, high-speed video can significantly shorten the development cycle for new products. Design engineers can record a high-speed operation, make adjustments, re-record the event and immediately analyze the cause and effect relationships. The ability to analyze and correct problems as they occur means that you can get new equipment to market sooner, giving you a potential competitive edge.

- **Production Line Speed-up**

Production line output can often be increased by allowing production and packaging engineers to clearly see and understand complex electro-mechanical interrelationships as machine speeds are increased. An increase in productivity not only lowers unit costs but may also help eliminate or defer the need to purchase new equipment.

- **Troubleshooting**

Costly downtime can be reduced because maintenance engineers can more quickly and efficiently diagnose and correct equipment malfunctions. If they can see it, they can fix it!

- **Predictive/Preventative Maintenance**

Many companies schedule specific times for preventative maintenance on their production lines. Effective use of high-speed imaging can help extend the time between PM's by letting maintenance engineers see, analyze and fine-tune the line so that key mechanisms can be adjusted to last longer.

- **Equipment Set-up and Changeovers**

High-speed imaging can shorten the time needed to set-up and fine-tune equipment after either scheduled downtime or line changeovers. By helping production and packaging engineers lock-in adjustments more quickly, total output can be significantly increased.

- **Product Testing**

High-speed video is widely used for product testing at both the component and assembly level. Impact, vibration, stress, penetration and air flow testing are just a few typical examples. Potentially costly design or manufacturing flaws can be corrected before the product gets to your customers, while thorough packaging testing can help keep shipping damage and warranty adjustments to a minimum.

Typical industries include:

Food and beverage
Pharmaceuticals
Paper converting
Personal care products
Household products

Packaging machinery
Rubber and plastics
Printing and publishing
Aerospace
Automotive

Computers and office equipment
Fabricated metal products
Electronic components
Medical devices
Chemicals