

Principles of Flexible Web Slitting

Day 1: 9:00 AM

Introduction, survey of materials, processes and problems encountered by attendees

Shear Slitting

- Principle of Operation
- Slit edge characteristics
- Blade edge quality
- Blade edge profile
- Blade overlap
- Blade sideloading

Lunch: Noon - 1:00 PM

- Eccentricity
- Shear/Can't angle?
- Slitter/web speed
- Trim slitting
- Knifeholder designs
- System geometry
- Automating?
- Safety

Conclusion, Day 1: 4:00 PM

Day 2: 9:00 A.M

Crush/Score Slitting

- Principle of Operation
- Slit edge characteristics
- Blade Parameters
- Anvil Roll Parameters
- Knifeholder designs
- System Geometry
- Slitter/web speed
- Safety

Razor Slitting

- Principle of Operation
- Slit edge characteristics
- Blade Parameters
- Knifeholder designs
- System Geometry
- Web speed
- Safety

"Burst" Slitting

- Principle of Operation
- Slit edge characteristics
- Blade Parameters
- Knifeholder Designs
- System Geometry
- Slitter/web speed
- Safety

Lunch: Noon - 1:00 PM

Ultrasonic Slitting

- Principle of Operation
- Slit edge characteristics
- Horn/Anvil parameters
- Knifeholder designs
- System Geometry
- Slitter/web speed
- Safety

Rotary Die Slitting

- Principle of Operation
- Slit edge characteristics
- Die Roll/Anvil Roll Parameters
- System Designs
- Slitter/web speed
- Safety

Single Knife Slitting

- Slit edge characteristics
- Blade Parameters
- Slitter Designs
- Safety

Water Jet Slitting

- Principle of Operation
- Slit edge characteristics
- Water quality
- Orifice design & materials
- Pump parameters
- Slitter/web speed
- Water Catchment
- Safety

Laser Slitting

- Principles of Operation
- CO₂ Laser, Nd:YAG Laser
- Slit edge characteristics
- Beam Delivery Systems
- Lens Holder
- Consumables (Gas & Water)
- Safety

Conclusion & Final Questions.4:00 PM

Mid-morning and mid-afternoon breaks are included. This is a highly interactive program; emphasis may shift according to the group's unique circumstances.