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Seminars For Engineers Presents

Principles of Flexible Web Slitting

A Two Day Technical Seminar

www.SeminarsForEngineers.com/slitting

About the Seminar:

Principles of Flexible Web Slitting is a comprehensive examination of the various factors that must be addressed when slitting flexible web materials. The phrase "flexible web materials" includes more than the common paper, film and foil products - it also includes increasingly complex laminates, coated products and technical materials such as composites, exotic thin films, textiles, light metals, and electronic and medical products, to name just a few. Any material that can be wound on a core is considered a flexible web. The seminar's major emphasis is on the more demanding process of shear slitting, but also includes comprehensive information on razor slitting and crush (score) slitting. Also discussed is high pressure water jet slitting, laser slitting, ultrasonic slitting and rotary die slitting as alternate methods where appropriate. Rather than using mathematical models and complex theory, the course emphasizes practical problem solving techniques which are easily applied by the plant engineer.

Who Should Attend:

If you work with the processing and converting of flexible webs, this course is for you. You will gain insight as to how your materials react in the slitting process, how machine design influences the slitting function, how product quality is influenced by slitting geometry and how productivity is related to slitting. You will better understand the capabilities of your existing slitters, whether modifications are needed and how to effect a modification. If you are a machine designer, builder (OEM), or rebuilder, you will get guidelines on integrating the slitters into your equipment for optimum performance. If you are responsible for training, you will be better equipped to integrate best practices into the workforce. Maintenance people will benefit greatly, since they are the "messengers" of how the slitters are performing and can do much to keep them at maximum efficiency.

Benefits of attending:

- Identify the optimum slitting process for your materials (shear, razor, crush (score))
- Identify the major sources of slitter dust production
- Learn how slitter blade geometry influences slit edge quality
- Discern the advantages/disadvantages of various slitter and knifeholder designs
- Establish a procedure for eliminating trial and error problem solving
- Learn techniques for more efficient operator practices at the slitters
- Recognize when slitter modifications are necessary to improve quality and productivity
- Identify the best location for retrofitting slitters into an existing process
- Your samples can be brought with you for classroom discussion

Course concepts:

- Fracture mechanics and the principles of web separation
- Shear, crush (score), razor slitting, water jet, and laser slitting compared
- Blade profiles and how they influence slit edge quality
- Slitter system geometry and pro's and con's of various systems
- Slit edges problem analysis and how to identify causes and solutions
- Slitter blade wear and how materials influence blade wear
- Roll edge defects and how slitter problems cause the defects
- Maintaining sanity at the trim slitters