INNOVATION!
In Sewn Products Manufacturing
SEAMS Association
NATIONAL NETWORKING CONFERENCE
OCT 18-20, 2017
HILTON HEAD, SC
What is Innovation?

- The process of introducing new ideas, new technology, new workflows, new methodologies, new products, services and solutions to attain valuable results.

Innovation is about the successful exploitation of new ideas...
Under Armour’s vision for the future of manufacturing — bringing products closer to where the brand’s products are sold — began taking shape with the opening of UA Lighthouse, the company’s New Manufacturing and Design Center in Port Covington, MD.
ADIDAS NEW USA MANUFACTURING PLANT...

“SPEEDFACTORY”

Cherokee County, Georgia

adidas

AJC The Atlanta Journal-Constitution
Exterior view of the Coleman Manufacturing Company, the first African American owned and operated textile mill, located in Concord, North Carolina, late nineteenth century. January 01, 1890

nchistorytoday.wordpress.com
NEW BALANCE, Boston, MA. FIVE Manufacturing Facilities in the USA; FOUR Million Pairs of Athletic Footwear per Year that Are Made in America

“MADE IN AMERICA MATTERS”

“Let’s challenge the Conventions of the Industry” Jim and Anne Davis
Nike is yet again breaking new ground in sports footwear with the introduction of its new Nike Vapor Ultimate Cleat American football boot, which combines its proprietary flat knitted Flyknit technology and game-changing 3D printed carbon fiber sole plate technology for unprecedented lightweight speed and strength.
At Home in Neodesha, Kansas, we're Tirelessly Designing and Crafting the Most Innovative, Well Engineered, and Best Performing Boats Imaginable. We Seek Out the Appropriate Balance Between Hand Craftsmanship and Technological Advances that Will Deliver the Most Innovative, Well Appointed, Stylish and Best Built Boats.

cobaltboats.com
VISION INTEGRATION INTO SEWING

VISION “DIRECTED” SEWING

The system is designed using the programmable PC Custom Camera and lighting to automatically Create a Stitch Pattern around irregular shaped objects like Patches, Labels, Appliques, Letters, Numbers, etc.
Digital FACTORY AUTOMATION

Automated Machines and Devices Producing Products with Electronic, Interconnected Reporting of Production Output, Maintenance Issues and Efficiencies of Operation
Vision Alignment & Inspection of Products
AUTONOMOUS WORK CELLS

“Making Products with Little or No Human Intervention”
“THREE” Dimensional Sewing

3-D Sleeve Set

3-D Post Bed Sewing Station

3-D Shoe Sewing

3-D Dash Board Sew
Innovation brings disruptive technology.

What is disruptive technology?
DISRUPTIVE TECHNOLOGY refers to any enhanced or completely new technology that replaces and disrupts an existing technology... rendering it obsolete....

It is designed to replace similar technology that is already in use.
Repetitive Motion Manufacturing is DISRUPTIVE TECHNOLOGY!

Auto Drapery Pleat

Robot Load-Sew Auto Interior

Elastic Attaching on Bottoms

Bath Clothe Seam
Repetitive Motion is DISRUPTIVE!

Robot Towel Sew

Robot Towel Edge Sew

Robot Auto Head Rest

Dual Arm Robot Assembly
Automated Machines and Robots are DISRUPTIVE!
DISRUPTIVE ... Automated Machines and Robots

Furniture Manufacturing

Ultrasonic Cut & Seal
Routine Jobs Performed by Robots are DISRUPTIVE!

Auto Air Bag Cell

Auto Bra Pad

Tee Shirt Hem & Close

Tee Shirt Bottom Hem
Sewbo, Inc. is pleased to announce that it has used an industrial robot to sew together a T-shirt, achieving the long sought goal of automation for garment production. Seattle based start-up company.
Robotic End Effectors are DISRUPTIVE

ExoHand-Human Machine Interaction

SynTouch Texture Discriminating Robotic Finger

Specialized Needle End Effectors

Robotic Human Hands
Flexible Automation is DISRUPTIVE!

ElectroAdhesion Pocket De-Stacking

Vision Guided Collar Assembly
Affordable Automation is DISRUPTIVE!

Universal Dual Arm Robot

Baxter Dual Arm Robot

Adept Autonomous Mobile Robots

Robot Shirt Front
AUTOMATED Devices
are DISRUPTIVE!

Auto Bobbin Checker
Auto Skip Catcher
Auto Bobbin Changer
Robots and Automated Machines are DISRUPTIVE!

Autonomous Strap System

XY Theta Turning Head

Auto Collar & Cuff Sewing Unit

DAB Air Bag Robot
AUTOMATIC SEWING

DISRUPTIVE TECHNOLOGY!
Automated Work Cells are DISRUPTIVE!

Parachute Line Cord Automation

Twin Head, Auto Velcro Loading, Medical Unit

Webbing End, Turn and Tack

Bottom Velcro Load with Name Tape on Top
THE AGE OF DISRUPTION

Our Industry is Dynamically Evolving
The USA is Cost Competitive Today

Cost advantage: +30

U.S. vs China Costs:
- Soft goods: U.S. 27, China 27
- Import goods: U.S. 1, China 6
- Energy: U.S. 36, China 36
- Raw materials: U.S. 27, China 17
- Overhead and other: U.S. 8, China 13

Source: Walmart/Boston Consulting
AMERICANS
spent 14% more on clothing and footwear in 2016 around $350 billion... and the trend is similar or greater in much of the rest of the world...

Market Research Firm
Euromonitor International
REEBOK IS BRINGING SOME SHOEMAKING BACK TO U.S.

New manufacturing process uses liquid material. Reebok is bringing some manufacturing capabilities to the United States as the athletic-gear maker unveiled plans to open a new manufacturing lab that relies on futuristic liquid material and 3D drawing.
NEW MANUFACTURING PROCESSES

Adidas HURDLES Manufacturing Limits with Liquid & Light

What's the recipe to disrupt shoe manufacturing? Just Add Light, Liquid, and Oxygen to the 3D Printing Process.
WE CAN COMPETE IN AMERICA TODAY

Robotic Automation

JEANS Automation
THANK YOU!
FOR YOUR ATTENTION
Henderson

A Global Perspective

Founded in 1968:
James F. Henderson

Current CEO:
Frank Henderson

Employees in USA:
32

Vendor Base:
565

Customer Base:
4650

Family owned, S Corp

Address:
P.O. Box 966
1 Waits Drive
Industrial Park
Andalusia, AL
36420

Toll Free:
800.824.5113
334.222.2451

Fax:
800.239.8398
800.511.3935
334.222.4085
334.222.3738

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