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## CCS *ProLoft* PRESENTATION

- CCS is a long time USA manufacturer of fiber processing equipment
- We have an automated manufacturing facility in Huntley, IL
- We also operate a replacement parts and service center in Kings Mountain, NC



North Carolina Service Center



Replacement Parts Inventory

- CCS has over 1,200 installations in more than thirty different countries
- The *ProLoft* systems are used to produce products such as Furniture, Bed Pillows, Decorative Pillows, Comforters, Bed Rests, Chair Pads, Swing Pads, Hammocks, Infant Care Products, Pet Beds, Oil Booms and other products



Furniture Back



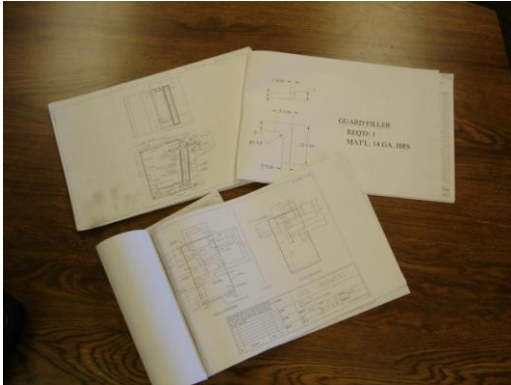
Hammock Cushion



Decorative Pillows

## CCS *ProLoft* PRESENTATION

- CCS equipment is 100% manufactured in house with US components
- All equipment is designed and machined on digital format
- Laser cutting and CNC machining assure accuracy and repeatability



CAD CAM Engineering



Metal Laser Cutting

- Electric motors are 85% high efficiency or better
- UL/CE Compliant electrical control panels are Siemens based products

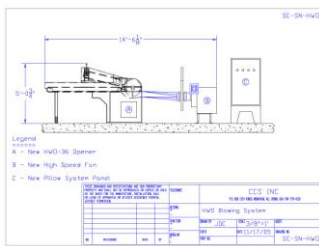


UL/CL Compliant Electrical Control Panel

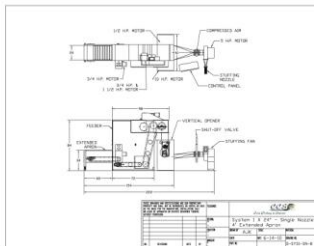
- Operational, Safety and Maintenance manuals are provided with all CCS equipment. The manual includes the equipment serial number, description of one year warranty, detailed replacement parts lists, electrical schematics and a complete set of detailed machine drawings
- All the wires are labeled for easy installation
- The latest safety devices are used including a motion sensor to reduce the possibility of entering the machine during the coast down

# CCS *ProLoft* PRESENTATION

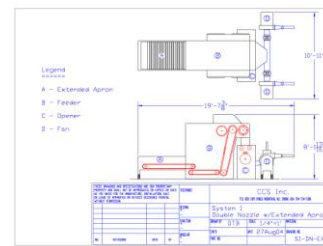
- CCS manufactures three standard *ProLoft* systems
- A. Entry level *ProLoft 300* – Production 200 to 300 pounds/hour
- B. Mid level *ProLoft 600* – Production 300 to 600 pounds/hour
- C. Most common *ProLoft 1000* – Production 600 to 1,000 pounds/hour
- All the *ProLoft* systems are foot switch operated, therefore the operator has an influence on the machine the production rate, all rates are based on 100% run time



*ProLoft 300*



*ProLoft 600*



*ProLoft 1000*

- The *ProLoft* systems are designed to run a virgin or regenerated, 3 to 15 denier, 1 ¼” to 2 ½” staple, mechanical or conjugated crimp, hollow or solid core, siliconized polyester fiber
- Polyester fiber may contain some static that can be controlled with humidification
- CCS is able to provide a recommended fiber suppliers list upon request
- Extensive fiber testing has been done to determine the proper equipment design and raw material combination, a few test methods are listed below



Cycle Test



Surface Force Test



Recovery Test



Loft Test



## CCS *ProLoft* PRESENTATION

- The system opens the fiber near 100% without damaging the fiber; it then blows into the finish product without further handling. Additional handling after opening will damage the fiber, conveying fiber through duct work or tumbling the fiber will cause a knotting effect shown in the photos below



Over Handled

Properly Opened

- Proper fiber opening will provide the maximum loft and fiber yield
- Fiber is shipped in compressed bales; the bales are opened and fed into the rear of the system. There are many different methods of feeding the baled fiber including extended aprons and full bale breaker systems



Bale Storage



Opened Bale



Bale Table

## CCS *ProLoft* PRESENTATION

- The *ProLoft 1000* included an extended apron, volumetric feeder, vertical opener, (2) shut off valves, (2) stuffing fans, (2) operator foot switches and the electrical control panel



Left Hand Side View



Right Hand Side View

- The systems are manufactured to order, once the order is confirmed with a PO and deposit, it takes about 8 to 10 weeks to complete the manufacturing process
- The systems are electrically pre wired and tested with fiber before they are disassembled for shipment.
- The standard system will be skidded in about six different pieces, it will take about twenty foot of a enclosed wood floor van
- A technician is typically sent to the installation site to assist with the assembly, depending on travel distance and time it normally takes about 3 to 4 days to complete the installation and employee training
- The in-depth employee training begins with the Operational, Safety and Maintenance manual. It includes the safe operation and maintenance of the systems and a detailed explanation of each individual component. A formal LOCK OUT/TAG OUT system should be used at all times. For additional safety information and training, contact an industry expert
- The training will also include a basic knowledge about fiber and the proper filling of the finish product



Typical LOCK OUT/TAG OUT Station

## CCS *ProLoft* PRESENTATION

- Most products are weighed and regulated after filling, the photos below show a few different weigh table considerations



Built in Scale



Furniture Weigh Table



Built in Scale

- At times the customers production requirements are greater than one standard width system can supply, in this case a wider system can be provided
- CCS has completed many installations that include multiple standard width systems, the photos below show four systems totaling eight nozzles



- CCS can run trials with your fiber and shells
- Customer references and visits can be arranged upon request