

SMART TUFTING MANAGEMENT SYSTEM

As never before, the means for significant increase in manufacturing productivity and efficiency is within reach. Essex, Inc. provides solutions that can turn automation into a real competitive weapon.

The Carpet industry is a mature industry – the growth curve is virtually flat. Carpet Manufacturers are at the mercy of their market. But, instead of trying to prop-up this flat curve we should be trying to get into the next growth curve. And give our customers what they are demanding – the best quality at the lowest price, in the quickest time. Process knowledge is the key!

With real-time process knowledge you can drive faster time-to-market rates, reduce equipment downtime and access real-time production data across the enterprise, with tools that enable continuous improvement in the manufacturing process.

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:: G3 HMI Features ::



Essex offers a highly productive information infrastructure to make every part of your process - knowledge based, knowledge driven and knowledge intensive:

- Graphical programming that document the manufacturing process so it can be understood across a broad set of disciplines.
- A system that replaces “islands of information” with a networked solution that connects the factory floor to the rest of the enterprise.

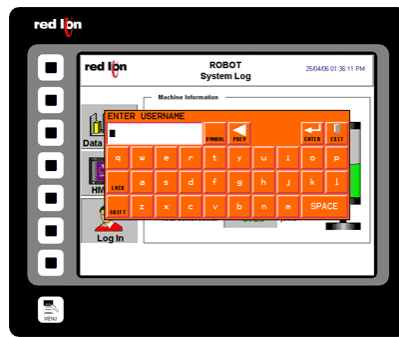
A Wireless Local Area Network communication system to transmit data efficiently and accurately in real time.

In other words a tool-set that makes continuous process improvement a reality and eliminates the uncertainty of modifying control codes to accomplish improvements in machine cycle times and quality.

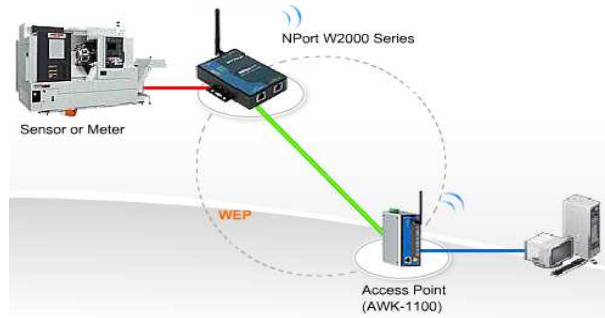
SYSTEM CONFIGURATION:

Powerful PLCs that provide precise and high-speed control of tufting equipment while integrating process data needed to keep productivity at optimal levels.

- Touch Screen Operator Interface with written codes for ease of transferring information from the operator to the Control Infrastructure



- ◆ Wireless communication to facilitate transference of production data in “real-time.”



- ◆ Data Gathering software designed as information level supervisory control system, based on a high-speed distributed control network.

:: Event Logging ::

Date	Time	Type	Description
4/19/2005	8:00:13	Event	Jam Cleared
4/19/2005	8:05:24	Event	Hopper Refilled
4/19/2005	8:11:00	Event	Guard Cleared
4/19/2005	8:15:50	Event	Machine Running
4/19/2005	9:50:13	Alarm	CONVEYOR JAMMED !!
4/19/2005	9:50:25	Alarm	MACHINE STOPPED
4/19/2005	9:51:17	Alarm	SAFETY GUARD OPEN !!
4/19/2005	10:01:52	Event	Jam Cleared
4/19/2005	10:03:20	Event	Machine Running
4/19/2005	11:20:36	Alarm	FEED HOPPER LOW !!
4/19/2005	11:21:02	Alarm	MACHINE STOPPED
4/19/2005	11:23:45	Event	Machine Running
4/19/2005	13:24:31	Alarm	FEED HOPPER LOW !!
4/19/2005	13:29:01	Alarm	LOW PRESSURE !!
4/19/2005	13:30:30	Alarm	MACHINE STOPPED
4/19/2005	13:39:45	Event	Pressure OK
4/19/2005	14:45:22	Event	Machine Running
4/19/2005	16:19:54	Alarm	SAFETY GUARD OPEN !!
4/19/2005	16:19:55	Alarm	MACHINE STOPPED