essex inc.

MACHINE TO OPERATOR COMMUNICATION SYSTEM (MOCS)

PATENT PENDING

Corporate Office
PO Box 20784
Winston Salem, NC 27120

Phone: 336-761-1112
Fax: 336-499-6237
E-mail: solutions@essexinc.net

Dalton Service Center
2450 Lakeland Road
Dalton, GA 30721

Phone: 706-275-0114
Fax: 706-275-0151
E-mail: essexinc@alltel.net

By utilizing Radio Wave technology we can audibly communicate with the operator via our communication module. The operator will wear a specially designed Headset and will receive audible instructions from the machine. For instance, if Tufting Machine #40 stops because of a tight end that occurred on zone one of the Tight End Detector, the operator will hear our audible system say – "machine 40, tight end, zone one; machine 40, tight end, zone one, etc." The voice will continue to repeat until the tight end at zone one, on machine #40 is repaired and the machine is operating again. The end result being that the operator does not need to present at the machine when a problem occurs. Our new Machine to Operator Communication System is integrated with our Zero Mend and /or Video Monitoring Systems to allow direct audible communication with the Operator. With our communication system, a span of over 300ft. in any direction is possible. This would allow the operator to receive communication while she is otherwise occupied - at another machine or in the Creel or anywhere else for that matter. Essex has developed software that will change a word file into a .wav file allowing the voice command to be typed into a computer and transferred to our communication system. English and Spanish are interchangeable.

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- Drastically improves operator efficiency by telling the operator what caused the machine to stop and where that problem is located. The operator can now quickly re-start the machine.
- Substantially improves machine efficiency by minimizing downtime— the operator is given verbal instructions as to the problem causing the machine to cease operation.
- Allows one person to operate multiple Tufting Machines. The operator knows what is occurring with her machines at all times.
- Uses proprietary "EARS" communication software to "talk" to the operator.
- Very little, if any maintenance is required for MOCS since there are no moving parts.
- It is possible for one MOCS to command up to 4 Tufting Machines.
- Each MOCS is Application Engineered by Essex for the particular Tufting Machines to be controlled.
- Add the Essex Vision Monitoring System and easily establish a Tufting Control Module for operating multiple Tufting Machines per one operator.