

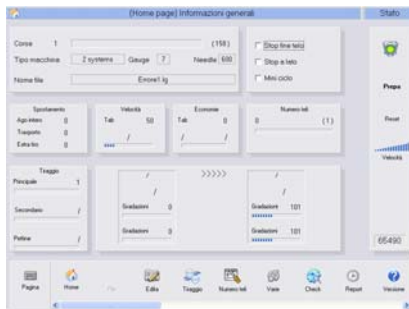
LOGICA

LKE Logica Knitting Electronic

Logica Automation: is the electronic controller for knitting machines, has been designed to provide direct control over all machine movements and on the main types of actuators and sensors used on flat knitting machines, Body-Size, Socks machines and circular machine. Furthermore, it allows the programming of every step of the operational process as well as the editing of the graphics drawings directly on the machine, by means of a user-friendly graphic interface based on Windows XP embedded or Linux architecture. Thanks to its open and modular structure, System can be fitted onto a wide range of knitting machines, Circular machines, Body-Size machines and Socks machines. The use of a field bus (can and bus - owner) for the connection of the carriage and of other devices inside the machine allows the de-localization of the boards and so a great reduction of the wiring and the cost. The controller will be assembled and will be implemented all the alimentation part and all the part relative to the European safety devices.



Central Control Unit: The central device is composed by a industrial CPU with Linux or Windows Xp embedded platform, LCD' touch screen monitor, floppy 1.44M, USB, serial and parallel standard ports. The central device is completed by a PC-104 board with a powerful microcontroller that manages the low-level machine routines and communicate with the remote electronic. The connection between the central device and the drivers (actuators, principal engine, movements engine...) is managed by a CAN net. Moreover it's possible to connect the net for the machine remote control.



Software: The software and the user interface will be of high-level and will satisfy also the most exacting customers. The software will allow the creation of particular knitting lavoration as intarsia, jacquard, fully fashion, multi gauge, full-body and all the other most requested lavorations in the market.

The touch-screen colour display allows a simple use of the machine thanks to a new and highly innovative user interface born from the **Logica** applications experience.

The software will be implemented with the Chinese language that will allow also to take the maximum advantage from the CAD developed by **Logica** that will be simply integrated with the controller. Moreover, it will be possible to connect the machine to the net for the remote control. In the machine software some functions will be implemented that actually we use in the **CAD-LKS** on PC, in this way the 2 parts can be simply and better integrated.

