

OEM's Custom Design

Design your own machine controller

TRM has introduced a new service allowing manufacturers of machines to design their own Controller for their machine by specifying options from a menu. The system is based upon a high power motion Controller which enables almost any application to be implemented. A typical example of the type of machine they could use this technology is a printing machine.

The OEM can select a range of liquid-crystal displays to suit the machines needs. Once the LCD has been selected the location and number of keys may be added to the keypad. Warning lights, start and stop buttons can be added to the front of the controller. In this way an attractive and efficient front panel can be designed for your machine. The idea is to make the machine as attractive, safe easy-to-use and practical as possible. Many machines require a number of technologies in order to implement a control system typically there will be a plc, motion controller, man machine interface, and a host of electrical items to control machine. The TRM system combines many of these functions onto a single board. There is a cable between the Controller and the interconnect card mounted in the machine. It is possible to implement solid-state relays, contactors, timers, soft starts, speed controls, power supplies, breakout connections, even thermal couple inputs can be included.

Atypical example might be packaging machine which would require a motion controller, a weighing system, and thermal control for bag sealing. In such a system they would only two boards, one would be mounted in a convenient location in the machine this board is called the interconnect card. It is custom-designed for every application and includes all the connections and facilities that the machine requires. In the packaging machine example this would include a power supply, three channels of temperature control connections for the motion control amplifiers and connections to the motion Controller. The motion controller would then be mounted in a convenient place within the machine where the operator can see it clearly. This type of technology can cost as little as £600 depending upon the display number of axes and complexity of the system. In our example the heating elements through to the Motors are all controlled via one board making the wiring cost-effective and easy. All boards will be CE approved making the time to market as low as possible.

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