

Packaged stepper motor systems

SM9000 series

Mclennan stepper motor drives and controls can be supplied as ready packaged systems to provide the combination of performance and control required. Units may be supplied in two forms depending on customer requirements.

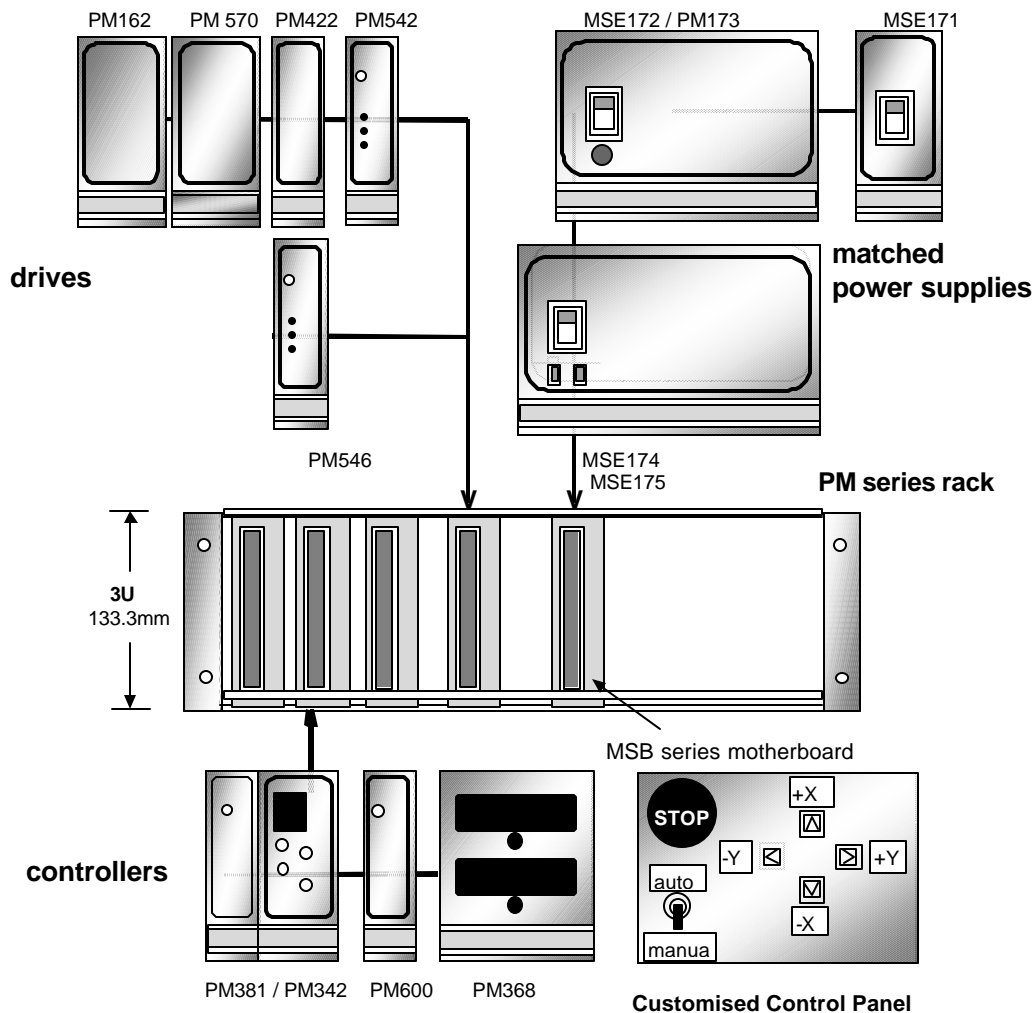
Packaged Systems to level 'B' Build standard

Units supplied in this form are mounted in 19in racks, either 3U or 6U high for fitment in customer's 19in cabinets. The units are based on the PM 170 series racked power supplies and utilise the 'in-service proven' PM series drive and control modules. The units are fitted with the appropriate motherboard at the rear of the rack so that all connections to the system are made via plug-in screw terminals suitable for direct connection to the customer's wiring loom.



Modular design for maximum flexibility & serviceability

The wide choice of drives and controls can be combined to provide single or multi-axis systems with each drive & control axis optimally matched to the system requirement. With drive ratings from as little as 80 mA through to 8 amps, the PM 170 based rack units offer a cost effective solution to high precision motion control for integration in customer's systems



Fully cased control systems - Level 'C' Build standard

As an alternative packaged drive systems may be specified housed in a robust Euro-cabinet enclosure. Provided in either 4U or 7U high cabinets depending on the combination of drive and control modules required, the SM9000 series systems incorporate internal fan cooling to enable maximum module density to be achieved.

SM9000 series crates are suitable for either mounting in 19 in. Rack Cabinets or may be used as free standing units. Connections to the unit are via multi-pin connectors, mating leads being available as an option for all motor and control signal inputs.



Total flexibility to meet customer needs.

The modular design of the PM series drive and control programme enables systems to be specified to meet customers' exact needs.

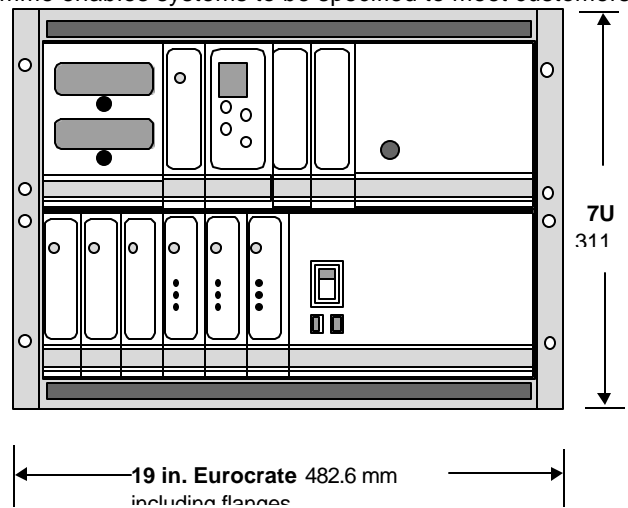
Example of custom system

Top Bay:

- 8 Channel Multi-plexed control with: PM381 / PM342 controller
- 2 pieces PM 422 drives (Axes 4-11)
- PM 172 Power supply
- PM368 dual display (Axes 1 & 2)

Bottom Bay:

- 3 Axis Control with:
- 3 pieces PM600 controllers
- 3 pieces PM546 Drives
- PM 175 power supply



Connection of SM9000 series controllers

The PM300 series of controllers are daisy chained to an RS232 interface. Up to 16 standard controllers may be connected to a single RS232 port in this way. When the PM300 series controllers are mounted in 19 in. SM9000 series Eurocrate systems, the crate is provided with 'D' connectors for RS232 IN & OUT lines on their rear panels. Consequently several SM9000 series crates can also be daisy chained to a single RS232 port i.e.:

