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Motion Mate™ DSM300 Series

The Motion Mate™ DSM300 is GE Fanuc's digital motion controller for the [Series 90™-30 PLC](#). This high-performance, fully featured motion controller combines the versatility of the Motion Mate™ APM300 with the reliability and performance of GE Fanuc's [Alpha Series](#) and [Beta Series servo](#) motors and amplifiers. It also provides an analog interface to drive third party drives or hydraulics

Each two-axis unit provides point-to-point or follower motion control and is an excellent choice for applications such as high-speed conveyor lines, textile machines, paint applications, packaging machinery, inspection lines, and high-speed assembly machines.

Benefits

- Accurate control of high-speed machines, due to fast servo loop update and a separate control loop processor which operates independently of PLC scan rates.
- Enhanced tracking accuracy using velocity feed-forward control and high resolution feedback.
- Ease of programming with user-defined position and velocity units.
- On-board I/O for travel limits, servo enable, home switch, and registration sensor simplifies machine interface.
- Extensive communication and operator interface options available through the Series 90-30 PLC.
- Registration applications supported with high-speed positioning capture input and jerk-limited acceleration.
- Advanced machine control using incremental/absolute and rotary/linear programming modes.
- Flash memory simplifies firmware upgrades

Easy to Install

The cost of integrating the DSM300 into an application is greatly reduced as a result of the digital interface to GE Fanuc Alpha Series and Beta Series servo amplifiers and the extensive machine logic control available through the PLC host.

The DSM300 units are easily and quickly configured in software and can store multiple motion programs for different machine cycles. Up to 10 motion profiles and 40 subroutines can be stored in the 15K bytes of flash memory.

Multiple DSM300 units can be installed in a 90-30 system, as long as the capacity of the Series 90-30 power supply and analog outputs available from the CPU are not exceeded.

Windows®-

With our VersaPro Programming Software you can configure and program the DSM300.



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