

# Brains with Brawn!

## The worlds most powerful motion controller with muscle.

Most smart drives today provide motion control capability as an afterthought. Usually the motion control is crude and too simple for engineers to keep from running into performance walls with their applications.

For over 25 years, Delta Tau has defined, refined and redefined motion control systems. With the Geo PMAC, we put our collective knowledge of motion control into a drive. If you want the assurance of knowing that you have a full-fledged motion controller in your smart drive the Geo PMAC drive is truly a smart move.

[www.deltatau.com](http://www.deltatau.com)

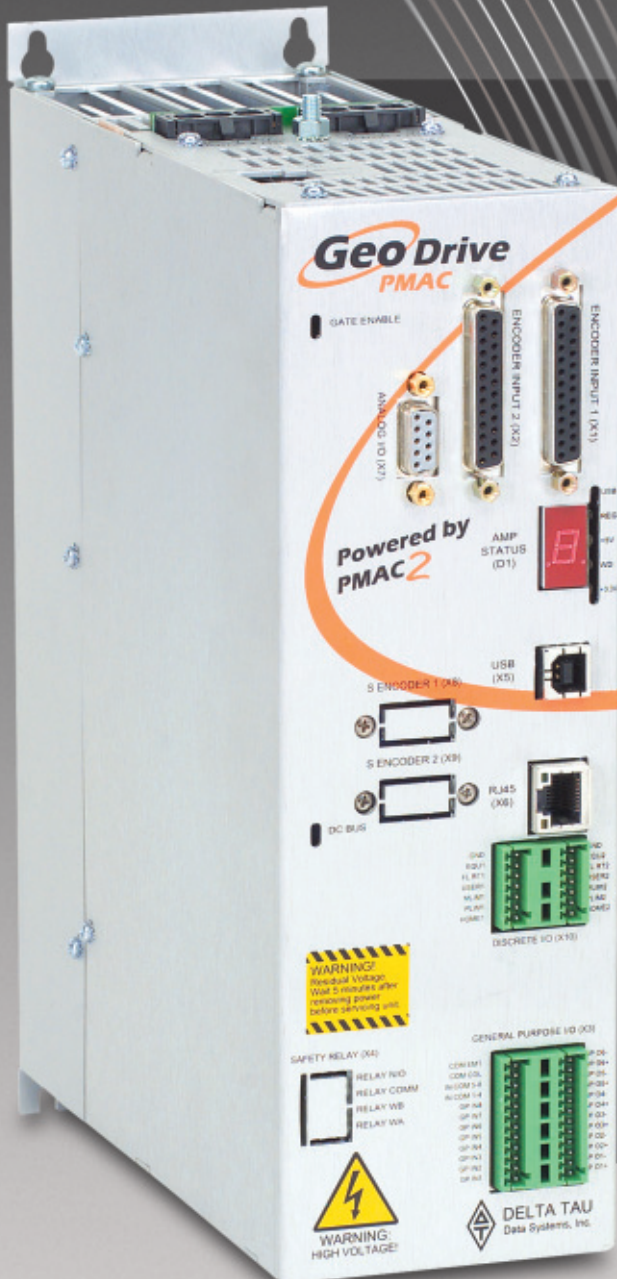
**By reducing hardware and wiring, the Geo PMAC Drive decreases cost, reduces panel space and increases performance.**

### Motion Controller Features:

- Motorola DSP 56k digital signal processor
- USB2 and Ethernet TCP/IP ModBus /TCP, 100 base T
- G-Code command processing for CNC
- Linear and circular interpolation
- 256 motion program capacity
- 64 asynchronous PLC program capability
- Cubic trajectory calculations, splines, S-curve acceleration
- Advanced PID servo motion algorithms
- Eight digital inputs at 24V and one 12-bit DAC at  $\pm 10V$  output
- Six Digital inputs at 24V sinking or sourcing
- Four input flags per axis at 12-24VDC levels
- Two 16-bit analog-to-digital converter inputs

### Amplifier Features:

- Direct Line Connections: models for either 240VAC or 480VAC, 1- or 3-  $\phi$
- Ratings from 1.5A continuous to 60A peak
- DC bus operation from 24VDC to 740VDC
- Designed for UL and CE Certification
- One or two axis configurations
- Feedback: Two primary and one secondary 10MHz quadrature encoder inputs, Resolver, Sine/Cosine Interpolator, Hiperface, EnDat
- Integrated bus power supply including shunt regulator and soft start
- 7-segment status display



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