

Precision Electric Presents

# Delta Tau CNC and Multi-Axis Engineering

## What is Multi-Axis Control?

Quite often, on more complex moves, such as moving a laser (2D Motion) in a circle or a robot arm (3D Motion) from picking up a box to setting it down, more than one motor is required.

A system is considered "multi-axis" when it uses multiple motors or feedback (axes) coordinated together (coordinate systems) to perform one or more specific tasks.



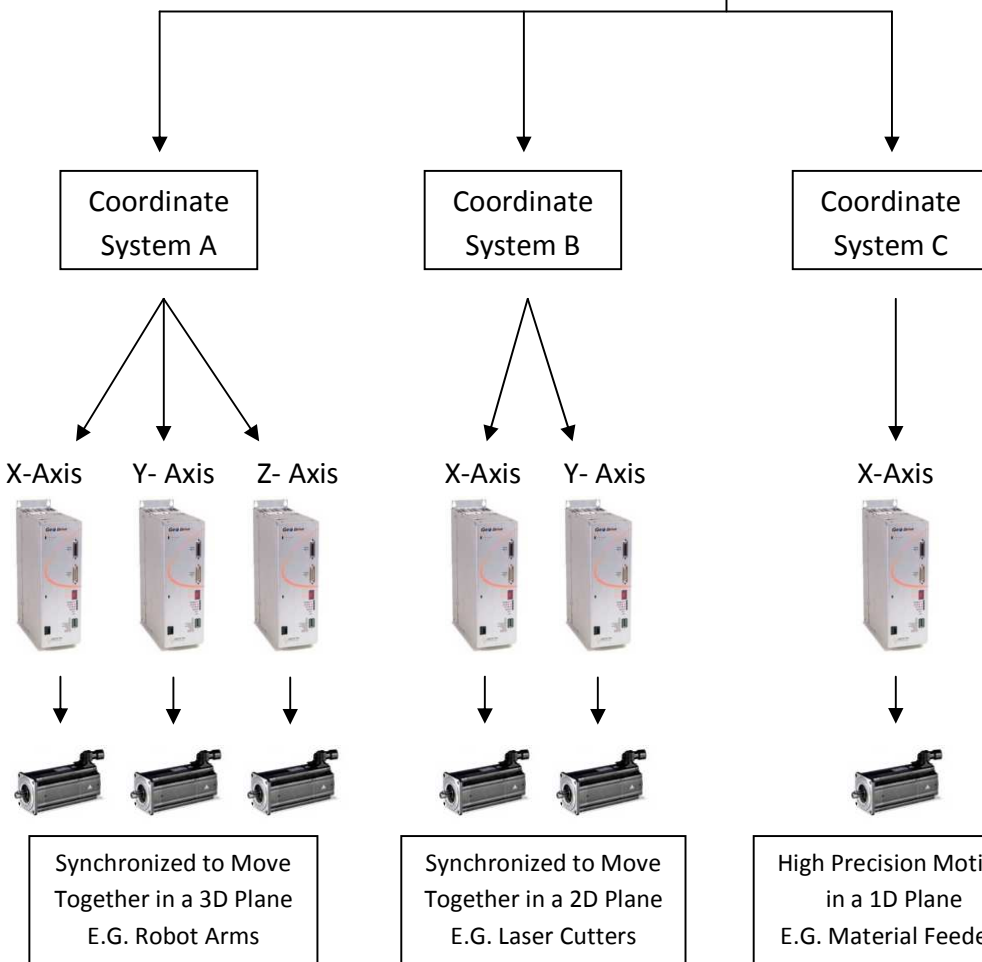
## What is CNC Control?

CNC (Computer Numerical Control) simply illustrates the complexity of mathematics required for a high precision system. These systems often interface with an Industrial PC as their HMI.

## Are all Multi-Axis / CNCs Proprietary?

Unfortunately we find many multi-axis / CNC systems utilize proprietary amplifiers (drives) and motor combinations. We pride ourselves in using Delta Tau controllers, which can be used with virtually any 3<sup>rd</sup> party drive and motor combination. This makes it the optimal controller to retrofit an already existing system or building a new one from scratch.

Delta Tau UMAC



## Sample of a System Controller

Known as the Delta Tau UMAC, the controller on the left can simultaneously control up to 64 axes with extreme precision (within millimeters).

## CNC and Multi-Axis Applications Include:

- Robot Packaging Systems
- Laser Cutting Machines
- Water Cutting Machines
- Procedural Systems
- Custom Machining Systems
- Patterning Systems
- Bending Systems
- High Precision Systems
- Robotic Painting Systems
- 2D Linear Motion Systems
- 3D Space Motion Systems
- Much More...

Contact us by Phone:

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**"In These Hard Times, You Need Someone You Can Count On."**

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