

**CONTROL<sup>TM</sup>  
TECHNIQUES**

# PLC CONTROLLED MOTION

FOR MAJOR PLC's

PLC Controlled Motion greatly simplifies the integration of Control Techniques drives into major systems.

Composed of two parts, a function block for the PLC and a guided setup within the Connect PC tool, the process of creating the PLC control logic and configuring the powerful onboard motion capabilities of the drive is greatly simplified.

## Installation and Configuration

A single installation will load all the function blocks and documentation required, as well as example projects to get the application up and running as quickly as possible. Also included, is a library of utility function blocks that may be used to further reduce application development time. PLC Controlled Motion fully configures the PROFINET &

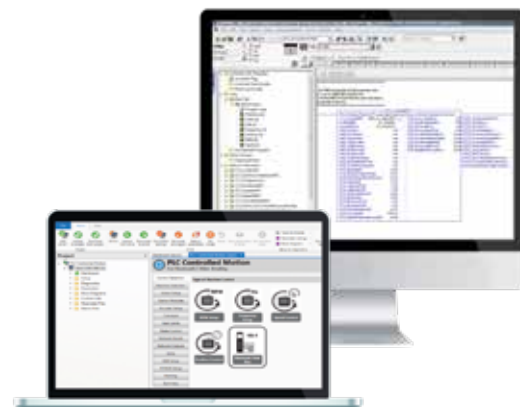
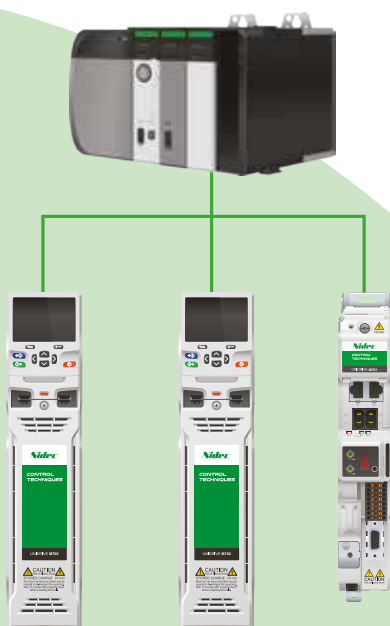
EtherNet/IP links thus reducing setup time and leaving more time to focus on the application development.

## Application Benefits

Utilising the high-performance Advanced Motion Controller (AMC) inside the drive not only yields significant performance benefits but gives the possibility to create complex and high-performance motion without the need to use very powerful PLCs.

All common control and commissioning parameters can be adjusted from the PLC reducing the need to leave the programming environment.

Ladder logic is used extensively in the implementation to ease understanding and facilitate debugging of the application logic. A level of customisation is also possible by the application developer should the function blocks provided not quite meet the needs of the application.



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## Motion configuration

Five function blocks provide functionality to support applications across the motion spectrum.



**Frequency Setup**

Allows frequency control of an open-loop axis.



**RPM Setup**

Allows speed control of a closed-loop (including sensorless) axis.



**Speed Control**

Allows speed control of an axis with dynamic control over motion parameters. With dedicated jogging reference.



**Position Control**

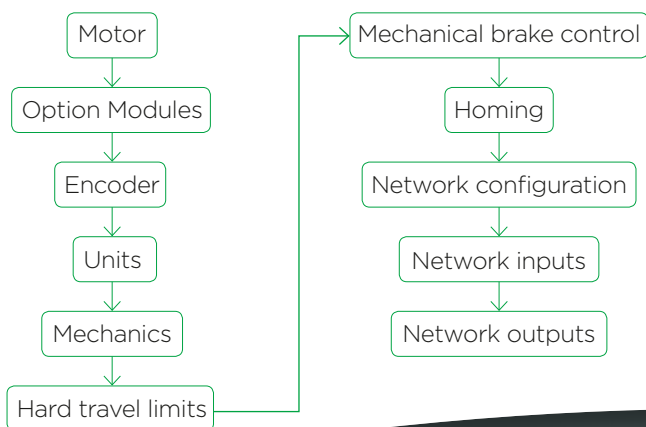
Single motion or up to 10 index moves can be defined and executed. Multiple homing modes.



**Electronic Gear Box**

Electronic gearbox scaled motion. Master reference switchable at the PLC at run-time. Multiple homing modes.

## PLC controlled motion will guide you through the steps needed to easily configure your application



## Machine mechanics

Entering the machine mechanics allows the use of user selectable units across the application; removing the burden of scaling calculations.



**Standard Gearbox Ratio**



**Belt and Pulley**



**Ball Screw Linear Slide**



**Rack and Pinion**



**Conveyor**



**Worm Drive**



**User Defined Rotary Ratio**

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