



Motor Technology News - December 2012

Happy Christmas to all



As we approach the Christmas holiday we would like to take the opportunity to thank you all for your support and custom throughout the year. Instead of sending Christmas cards, we have made donations to the **North West Air Ambulance Service** and the **Salvation Army**, which we feel are both very worthy causes.

We hope that we will have the privilege of being of service to you and building even stronger relationships with you in the New Year 2013.

Our office will be closed for Christmas and New Year from 12:00pm on Friday 21st December and will be open again on Wednesday 2 January 2013 as normal.

We wish you, your family and your colleagues a very happy Christmas and health, happiness and prosperity for the New Year 2013 !

Helpful Torque



We sometimes forget that certain facts relating to servo, stepper and motion control technology may not be known to everyone. And why should they be? Today's jobs often require us to be multi disciplined with responsibilities crossing over into areas we are not very familiar with.

For this reason we've been running little snippets of information in Motor Technology News, which may be common knowledge to a lot of our readers, but we

hope are helpful, useful and interesting to others. And here is another...

Did you know that one major advantage of servo over stepper motors is the ability to control torque in the application? Steppers operate at full torque all the time, making it impossible to use them on applications that require force or torque control.

An example would be a ball-screw drive where products are being pushed at a pre-defined torque to avoid damage to the components or perhaps an application where parts are being press fitted in assembly, where servo motors can offer precise control of the torque applied.

What's more, a lot of servo drives are capable of operating on a speed or position command, with the added benefit of monitoring the torque/force. This information can potentially be used to provide wear information in the power train or give a warning of blockages on a production line.

If you are looking at new methods to control your application or processes, why not give us a call or [email](#) us.

Trio launch high specification motion coordinator



We really like the look of Trio's new, compact, high specification, motion coordinator, the MC403. It uses a high performance ARM11 processor and features three flexible access ports and two voltage outputs. The flexible axis ports can be configured in software as feedback devices or pulse / direction outputs.

As outputs they can be used for step and direction with stepper or servo drives or they can operate as a simulated encoder output. When configured as feedback they can be either incremental encoder input or one of three popular absolute encoder types; SSI, Tamagawa or Endat. Any feedback axis with a

Voltage output can be used to form a closed loop servo.

For more information on the MC403 click here

A handy tip: when you can do without a holding brake

Did you know that there are some applications, that would normally require a holding brake, where you might actually be able to get away without one? A permanent magnet motor can act as its own holding brake. By shorting the windings of the motor the magnetic forces will lock the it in position and on some applications this may completely eliminate the need for a separate holding brake!

This should only be attempted by a qualified engineer, when the motor is at a complete stand still and the windings can be safely disconnected from the supply. Please feel free to [contact us](#) for help if you think you have an application that might benefit from this.

Price Increase in 2013

Lenord + Bauer and Festo have indicated that they will be increasing prices in the New Year by between 2.5 and 3%. Why not beat these rises by placing your orders now?

Orders placed before the end of the year will benefit from 2012 prices, with delivery scheduling possible until March 2013.

Click here to learn more...



Anthony Riley promoted to Order Handling and Quality Manager

Please join us in congratulating Anthony Riley who has recently been promoted to Order Handling and Quality manager.

Click here to learn more...



Product Obsolescence

The Trio Membrane (P503) and Mini-Membrane (P502) keypads have been discontinued due to some components no longer being available. However, we are still able to repair these products depending on the fault.

Click here to learn more...



Puzzle Corner: Crates of Fruit

Imagine that you are on a desert island.

There are three crates of fruit that have washed up on the beach...

Click here to learn more...



We're ISO 9001 Accredited

We've been operating high standards of quality control and record keeping for decades and we are pleased to announce that we have achieved accreditation to ISO 9001:2008.

Click here to learn more...