



Motor Technology News - Summer 2015

Universal servo drives suit multiple encoder systems and motor type



Single phase ARS 2100-SE and three-phase ARS 2300-SE family

If you're looking for flexibility, simplicity and low cost, take a look at our range of ARS 2000 SE servo drives, manufactured by Metronix. They're simple to install and configure, and are suitable for a wide variety of applications. They can be used universally as they automatically identify motor parameters and encoder types, and are manufacturer and system independent.

The standard edition, or SE, range of drives within the ARS 2000 family combine advanced features, including integrated functional safety, universal encoder interfacing, and a peak current capability that is up to twice that of many similar drives on the market allowing much faster acceleration.

At the same time, the drives reduce costs by providing only the features that the majority of OEMs, system builders, and automation engineers want. They provide a high-performance position control capability at a middle-market price and reduce costs by up to 15% compared with other drives in our Metronix range.

[Read more here...](#)

Small servo drive packs a big punch



Extending the low-cost, high performance ServoONE junior range to 8A on single-phase and 16A on three-phase supply

Optimised for the lower power output range LTI's ServoOne Junior servo drive is well worth a look and is suitable for a wide range of applications. It combines cost effectiveness and minimal size with all the high performance features of its big brothers in the ServoOne range of solutions.

The ServoOne Junior offers maximum performance with rated currents of 3.0-8.0 Amps (single-phase version) and 2.0-16.0 Amps (three-phase version) with a range of four compact designs. The ServoOne Junior is functionally compatible with the ServoOne drives family and is programmed and commissioned from the same Drive Manager software tool.

At the heart of Drive Manager is the flexibility to configure the drives for both standard servo motors and rotary or linear direct drive motors. A rated switching frequency of 8 kHz can be and a current controller cycle time of 62.5 μ s (16 kHz) ensure superior responsiveness and high dynamics.

[Read more here...](#)

Motion control over EtherCAT up to 32 axes



Trio MC4N for control of up to 32 EtherCAT or alternatively RTX axes

Trio's MC4N is a great concept in high performance Motion Coordinators which is dedicated to running remote servo and stepper drives via the EtherCAT real time automation bus. It is based on an up-dated version of the 532MHz ARM 11 processor which makes it ideal for high axis count machines or robotic applications.

The MC4N supports up to 32 axes of motion with 64 bit integer position registers for ultra precise axis resolution. EtherCAT slave drives and I/O can be connected and run in cyclic synchronous position, speed or torque modes provided these are supported by the drive.

Programming the MC4N is identical to using traditional analogue axes with the addition of being able to set up drives and process alarms over the EtherCAT bus. With everything programmed from one place, machine control has never been so simple.

[Read more here...](#)



New MiniCODER is programmable

Lenord + Bauer's new compact, contact-free kit-encoder, GEL 2444-P, is the next generation of MiniCODER, providing significant benefits.

Under the newly formed product category, MiniCODER plus, the GEL 2444-P sensor has an additional integrated chip that can be programmed.

[Click here to learn more...](#)



Free to customers We've got a few copies left of Festo's really useful 198-page Dictionary of Electrical Drive Technology and R+W's excellent hardbacked guide to Precision Couplings and Line Shafts that contains over 70 pages of really helpful and interesting information. Both are extremely handy reference books and well worth having on your bookshelves! [Click here to learn more...](#)



Puzzle Corner: A Poor Fisherman's Song

Normally we try and make our Puzzle Corner puzzles intellectually challenging, thought provoking, or just fun. This one is one of the latter -- it's just fun, but it made us laugh and we hope that it will you too!

A poor fisherman was sat at the bar in the Black Dog Inn overlooking the harbour and wondering how he was going to pay for enough fuel to put to sea again after the last two fishing trips had yielded only minimal catches.

[Click here to learn more...](#)