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## Editorial

### Progress:

The exports of electronics manufactured products and software packages are growing rapidly. They should of course, there are so many talented, hard working and smart people involved. During the week I talk to these types of companies and I am always hearing stories of new startups, new products, new contracts, new markets, new records.

### Need for Quick Action:

There is some quick action required for this growing sector, and it is not tax breaks (they are needed, mind you) or R&D grants (very handy) but finding more technical people. Where are they all going to come from, we will need hundreds, probably thousands. The Polys & Universities are having a hard time producing enough, but you know, I don't think we will ever have to worry about this too much, there are a lot of good people that want to come to NZ and we just need to pick the smart ones. This is an opportunity for the enterprising recruitment companies to do this work and that will be a fun job. Immigration in this case is a good thing, as we get people already educated, with abilities and ready to go, and to boot are happy to be here. So if you are one of the new ones to NZ, congratulations and thank you for coming to help us in NZ. If you feel you need special software training to go further, then contact MasTec.

### New Employee:

I would like to introduce to you our new ISP ( Inside Sales Person ) Minette da Silva. Minette starts August 1 and will be learning the ropes from Saera and myself.

Rob Maskell  
CEO MasTec Ltd

## Turn your old PC into a 100-150-200MHZ 2 Channel Scope or more

*You all have them laying around, in corners, under tables, go find them and use them again.*

Those old 486 and Pentium machines can become very good instruments:- GPIB and comms protocol analysers, high end scopes, logic analysers, spectrum analysers and arb waveform generators and more; for a low cost. e.g. Two Channel 100 MHZ scope is \$1200 NZ.

## Unimeasure Cable Transducers & Belval Metal Tape Linear Encoders

*Do you need to measure linear distances, look at cable and metal tape transducers and encoders*

Unimeasure (USA) make a large range of cable transducers with ranges up to 50 meters, with excellent accuracy and repeatability, outputs both analog voltage or 4-20mA or quadrature encoder.



Belval (France) make a range of metal tape transducers with no moving parts, tapes can be very long, speeds up to 10m/sec, output quadrature encoder.

## Omega and Penny & Giles LVDT and Resistive Linear Transducers

*Do you want to measure shorter linear distnaces, and need rigid , high accuracy and low mass*



Both Omega (USA) and Penny & Giles (UK) make a large range of LVDTs and resistive linear transducers, short to



long stroke models.

Penny & Giles also make an In-Cylinder Linear Transducer for inside Hydraulic rams or similar.

## Marketing and News

Have a look at the [www.mastec.co.nz](http://www.mastec.co.nz) side bar button set and click **Marketing** also **News**. These cover many of the announcements by MasTec Ltd over 2002.

## Specials

Also click our **Specials** Button. After the last stock take, we placed on this "Specials" page, a large number of products to clear. We are open to offers on any of these items.

*Super Buying*

*Super Buying*

## Employment

MasTec is looking for a Technical Sales and Marketing person. Click on the **Employment** Button for details.

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## Your One Stop for Technology

### Operator Interface - Touch Control

MasTec distributes **Designtech & Z World**

If you build systems with any type of Controller, PC based, embedded micro, PLC or RTU, you will often need an operator interface with touch screen or keypads.

These LCD graphics displays come with back lighting and are available open frame or with an anodised aluminium bezel. Power supply voltages are 5 to 30 VDC. Instructions are simple ASCII, pictures can be downloaded and stored in flash memory. **All models have Touch as an option.**

Z World make programmable displays with keypad & TCP



### Panel Meters and Processor Controllers

MasTec has **Texmate(Super), Omega, Newport, Unimeter.**

These manufacturers make a huge range of Programmable Meters Controllers, Panel Meters and Process Controllers

Many of the process controllers are multi loop, autotune, multi display, universal input types, accepting all TCs, RTD (PT100), voltage or current. Sizes range from 1/32 DIN.

The DPM range is enormous, from simple LCD/LED to high accuracy smart meters with comms ability.

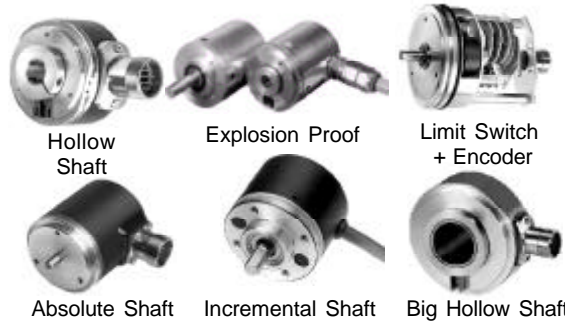


### Rotary Encoders - Limit Switches

MasTec distributes **Micronor AG of Switzerland.**

Micronor make an extensive range of precision incremental and absolute, shaft and hollow shaft rotary encoders, with resolutions up to 30K/rev, open collector 5 to 24 VDC or RS-422 drivers. Some models have limit switches as an option. Also there are explosion proof models.

**Cam Switch** Micronor also make **Pulse Gen** Pulse Generators for CNC positioning, Motorised Pots and Cam Switches with timing motors



### Imaging - Motion - Vibration - Acoustics

MasTec distributes **Pulnix, Panasonic, Basler, Kodak, Dalsa, Hamamatsu, Silicon Systems** (New HDTV 3.2Meg/pixel with variable res/frame rate) and other cameras. MasTec has the major manufacturers of Image capture & frame grabbers, **Matrox, Integral, Bitflow, NI, Mutech** plus lenses, triggers, detectors and accessories for all image analysis, machine vision and industrial inspection.

MasTec distributes **NI and Adlink** servo and stepper motion control boards, amplifier drives, vibration and acoustic acquisition and analysis solutions. There are simple to very advanced solutions. We make full turnkey solutions.

For sites requiring assistance in any of these areas, MasTec has expert engineers and programmers that can design, consult or build your complete turn key solution.

MasTec has imaging libraries for Imaging, motion, vibration and acoustics for C/C++, VB, CVI and LabVIEW developers.



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