CONTROL TECHNIQUES
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WORLDWIDE APPLICATION LIBRARY

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MATERIALS HANDLING
INDUSTRIAL AUTOMATION
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MACHINE BUILDING

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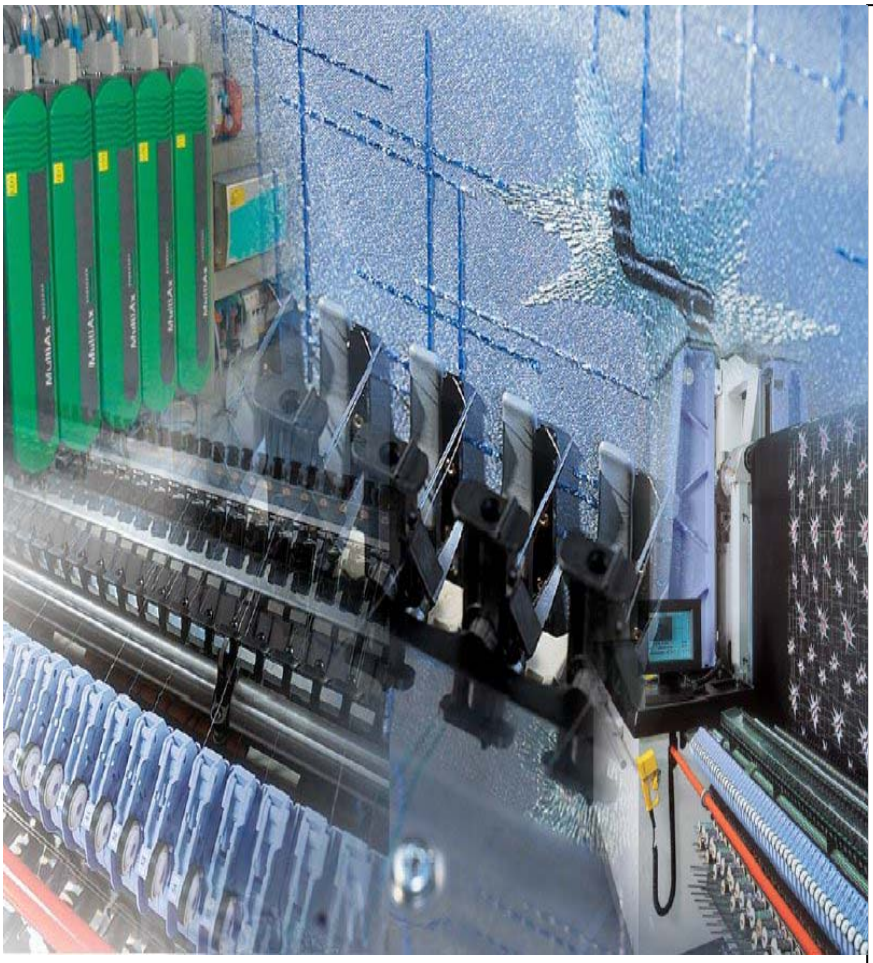
UNIDRIVE USED ON SWISS CONSTRUCTION CRANE

- Control Techniques drives and Leroy Somer motors used with UD70
- Product sold as kit with all cabling, options, drives and motors in the package
- Hoist control for 3 separate speed values with slipring motor
- Unidrive chosen for high speed and precise speed control



LARGEST EMBRIODERY MANUFACTURER IN THE WORLD CHOOSES CONTROL TECHNIQUES

- Machines measuring over 30m in length and over 800 needles
- Since 1994 Control Techniques has supplied servo drives
- Customer is extremely happy with Control Techniques SLM based solution
- No other drives company can match Control Techniques price and package!

If you would like to more about any application please contact geraint.evans@controltechniques.com



SPANISH WINDING AND UNWINDING MACHINE FOR TREATMENT

- (AUTOMAT) Speed 350 m/min on machine
- Diameter of the wire 0.6 to 1,4 mm
- 3 Unidrives and UD75 provide control
- 1 Commander SE 0.3 Kw
- All the application is uses UD75



YOUNGS BLUECREST SEAFOODS USE MA'X

- Food packaging line upgrade to fully automatic production line
- M'Ax servo system with SLM Technology chosen for its "flexibility, ease of programming and greatly reduced wiring"
- Customer achieved savings of £180,000 per year!
- System comprises a Control Techniques MC216 motion controller and
- Eight M'Ax single-axis servo drives and eight Unimotors with SLM technology
- Control Techniques chosen for benefits of SLM Technology and simplified set up and support

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TEAM TECHNIK TEST RIG IN GERMANY USES UNIDRVE

- Gear-test rigs for Opel Powertrain – Österreich
- Free programmable processor for application software
- 6 systems with 2 x UNIDRIVE 4402 simulation of the 2 wheels, 2 X UNIDRIVE 4404 for simulation motor**,** 1 X UNIDRIVE 4402 for Regen, 3 x UD73
- Excellent torque control





ALUMINIUM MACHINE TAKES ON UNIDRIVE SP

- Machines for aluminium pressure casting, gravity diecasting and drop forging
- The application is a X-Y two axis position control servo drive.
- Uses 2 x SP1406 in Servo mode with Siemens servo motors
- EASY – Setup with SmartCard, One drive for Open Loop and Servo motors,
- Scalable intelligence replacing the PLC for small systems
- Stand alone solution as low cost plc based on SM-Applicaions module with Beckhoff I/O BK7200 and the CTIU100.

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LAMBORGHINI TEST RIG FEATURES UNIDRIVE

- Test rig for power test, ABS > at Lamborghini – Italy
- Test of motor power till 600KW
- Free programmable processor for application software
- 4 x UNIDRIVE 4403 for the wheels, 2 X UNIDRIVE 5401 for Regen
- 5 x UD75 CT NET for speed synchronisation and calculation the car-enertia with excellent torque control





UNIDRIVE BOOSTS CROSS CUTTING MACHINE

- Cross cutting machine with an accuracy of 0.1 mm up to speeds 400 meters per minute!
- Up to 500 cuts per minute with free selectable formats of 420 to 1800 mm
- Cross cutter is driven by of 2 x 120 kW servo motors and 1 x 75 kW feeding motor
- System consists of 2 x UNI5401, 1 x UNI4403, a cap bank and supply unit
- With our system the input power was reduced from 300 kW to less than 70 kW

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AUTOMATION OF A COMPLETE CONTINOUS GALVANISING LINE COMPLETED BY CONTROL TECHNIQUES

- Electrical drives and automation of a complete continuous galvanizing line including centre winder, digital lock, speed, position and torque control applications in various stages
- Scope of supply covers 34 Unidrives and 22 Mentors with a total power of 2 MW controlled via CTNet, UD75 & MD29AN, MCCs, AC and DC motors and gearboxes, Intellution Scada system
- High performance and easy operation of a complete line using a distributed control strategy integrating three PLC controlled sections by other suppliers
- State-of-the-art solution with a competitive price, with added flexibility for expansion & modifications



TEST FUCHS, AUSTRIA TEST-RIG FOR EUROFIGHTER

- Test rig for bevel gearboxes and screw –jacks that are used in the Eurofighter Typhoon
- 2 Unidrive 4402 and 1 Unidrive 2403, both with UD70 option module
- 2 AC-motors, 49 kW 2065-6000 rpm, type Oswald QD 16.3
- Customer is one of the leading companies worldwide in the field of test equipment for aviation and space technology
- Customer has worked with Control Techniques Austria for many years because of excellent products -especially for test-rigs-, service and solutions

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315 kW RUBBER MIXER WITH UNI SIZE 5

- Czech company GUMOTEX chose Control Techniques to replace its ageing drive system
- System now works in semi – automatic mode meaning cost savings in labour
- Control Techniques were chosen ahead of competitors because of technical expertise and local support
- Customer expects a payback of approximately 1.5 – 2 years!!!



WIRE SAW MACHINE COMPANY LOOKS TO UNIDRIVE SP

- Czech based company uses Commander GP for control of wire saw machines
- Company machines working in Russia, USA with Unidrives and Commander GPs maintaining control!
- PROFIBUS and Unidrive run parallel in the application
- Unidrive was chosen by the customer because it can run 3 modes – this was a big selling point!
- Customer will use Unidrive SP in 2003

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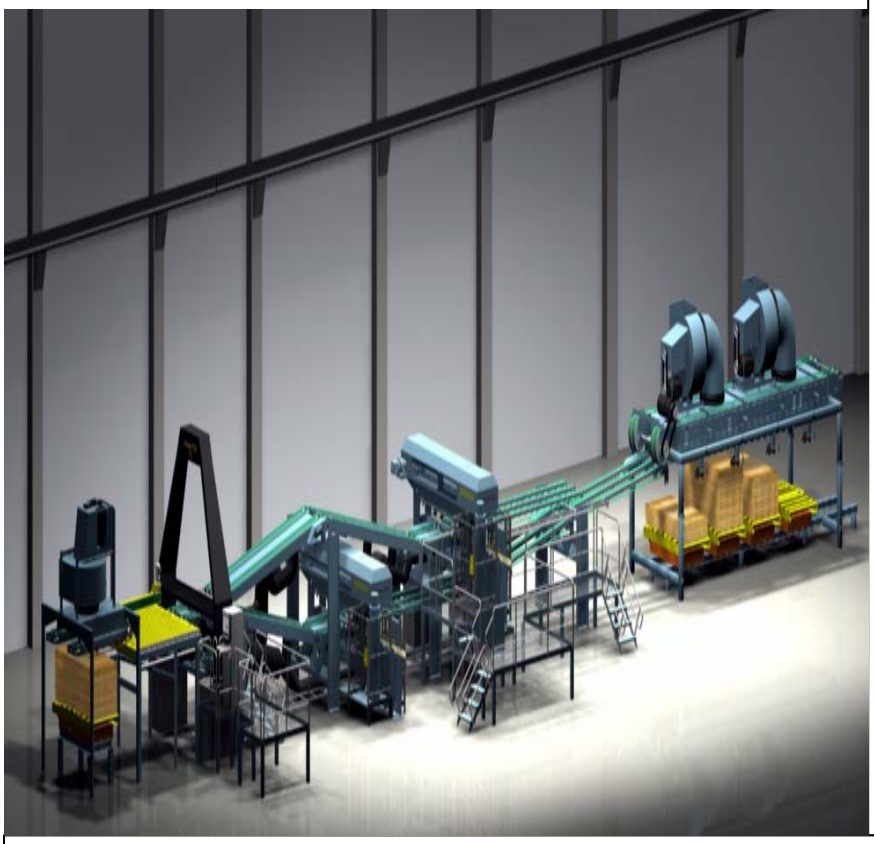
QUILTING MANUFACTURER GOS M'AX

- Tec Mulitneedle using M'Ax servo drives to gain increase in production and more!
- Benefits from M'Ax: Eliminated separate panel - now fits under machine.
- Minimal wiring - panel now built in less than 1 day.
- Performance increase - Needle axis and X Feed Roller axis can now increase/decrease speed rapidly depending on where it is in the pattern.
- This can increase output by over 50%
- World-wide support mainly UK, Italy, US very important service point
- Equipment: MC206, SLM Technology Card, MultiAx, 2 off 115SLE300CAPAA, 1 off 142SLD200CAPAA.



DETECTING MACHINE USES UNIDRIVE

- Finnish company uses Unidrive and option modules for its fault detection device
- Unidrive alongside Unimotor await a signal from a fault detector. The Unidrive then responds to the co-ordinates of any defect and moves to check the area
- All conveyors locked digitally together
- With maximum configuration up to 16 manual machine can be replaced with one line, which is operated by one person.

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ITALIAN POLYESTER MANUFACTURER USES A RANGE OF PRODUCTS FROM CONTROL TECHNIQUES

- “Non woven line” for production of reinforced roofing polyester uses Unidrives, Mentors, CT-Start and Unimotor in the large plant
- Customer uses one drive type, Unidrive to control AC motors and benefits form simplified set up and lower maintenance costs
- Over 60 Unimotors in use at the plant
- Plant runs for 24 hours a day 365 days a year with product reliability from Control Techniques
- Cabling reduced by over 50% with Unidrive



UNIDRIVE SP GETS A SWISS POLISH!

- Swiss based three Axis polishing machine uses Unidrive SP with SM Applications modules for precise control
- Customer wanted to make savings of over 30% and Control Techniques has succeeded in reaching the target!
- Customer previously used Siemens product but switched to Control Techniques for local service and customisable software
- Application utilises decentralised PLC functions through SM Applications

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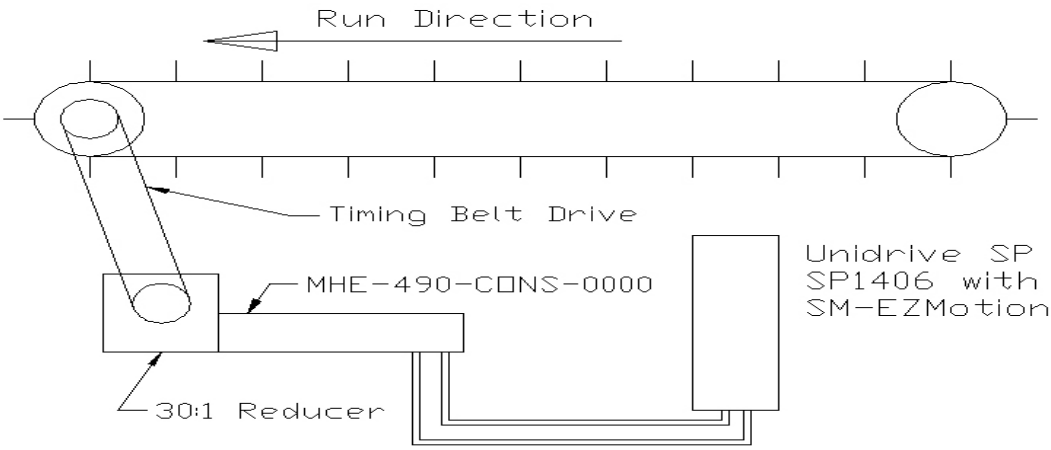

REPLACEMENT DRIVES AT MEDICAL SUPPLIER

- Unidrive SP with SM-EZMotion for easy to implement positioning.
- Replacement of high maintenance, poor accuracy clutch-brakes and DC motors & drives at Johnson & Johnson Consumer Products: Band-Aids Packaging.
- MHE-490-CONS-0000 Motor was selected because of its NEMA configuration which allowed it to be mounted to the existing gear reducer.
- Benefits to customer: Precise motion control via easy to configure module; no significant training required and its an“Off the shelf solution” which utilized customers existing mechanical components.
- Cost savings for the customer: include retrofitting to existing machines, Elimination of downtime to maintain clutch-brake and DC motor.
- New machine can also eliminate the costly mechanical reducer.



TURKISH FANCY YARN MACHINE MANUFACTURER

- 7 motors (5 Servo motors) are controlled by Unidrives and Commander SE.
- Specifically designed Software controls yarn machine
- All drives fitted with UD70 option module
- Touch screen control panel can change 32 separate sequences

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US CAR PLANTS PICK UNIDRIVE AS PREFERRED CHOICE

- Unidrive is being used in various car plants in the United States and South America on automated production and offering production rate improvements as well as significant cost savings
- Unidrive, Unidrive SP, Unimotor, UD75 Modules, CTNet and Beckhoff I/O are all integrated in applications for Nissan, DaimlerChrysler and other vehicle manufacturers
- Control Techniques was chosen because of the total cost effectiveness of package, proof we could do application in a short period of time and finally because of superior technology to competition including Allen Bradley, Lenze, and MTS



ITALIAN FINISHING MACHINE USING M'AX AND MULITAX

- Spraybotic is a machine capable of combining the highest finishing quality when spraying complex shaped work piece in robot mode
- The drives used are 4 M'Ax (next step 1Multiax and 1 MA'x), 4 Unimotor and 1 PC'AX with SLM technology, 2 Unidrive size1 Commander.SE
- M'Ax and Multiax servo system with SLM Technology chosen for its "flexibility, ease of programming and greatly reduced wiring"
- Customer achieved savings of € 15,000 per year!

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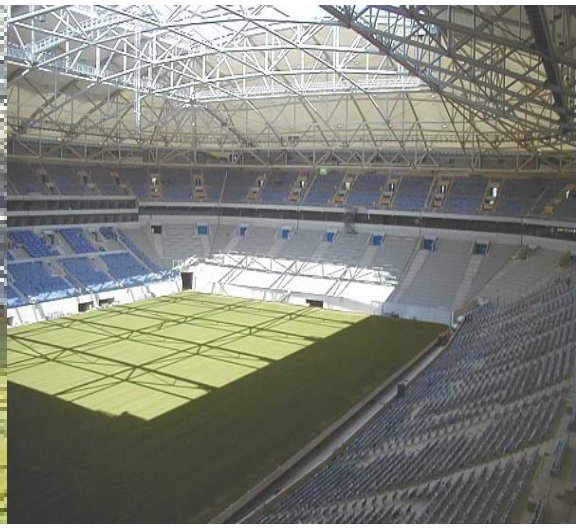

MOVING STADIUM ROOF SCHALKE 04

- Control Techniques Holland delivered the complete operation system for the stadium roof with two moving elements. This roof is 50 meters above the playing surface.
- 16 Unidrive standard UNI 1405
-
- 16 Profibus-DP application modules - type: UD73
- 4 local control panels with Siemens remote I/O
- Control through a central desk on the basis of Profibus-DP





THEATRE GRONINGEN ENSURES SHOW MUST GO ON!

- 60 winches for scenery decoration (SynchroDisk)
- Control Techniques Holland delivered the complete electrical installation,
- 60 Unidrives LFT - Uni 2403 LFT mounted on the SynchroDisk
- 1 cubical with central supplying through a DC-bus

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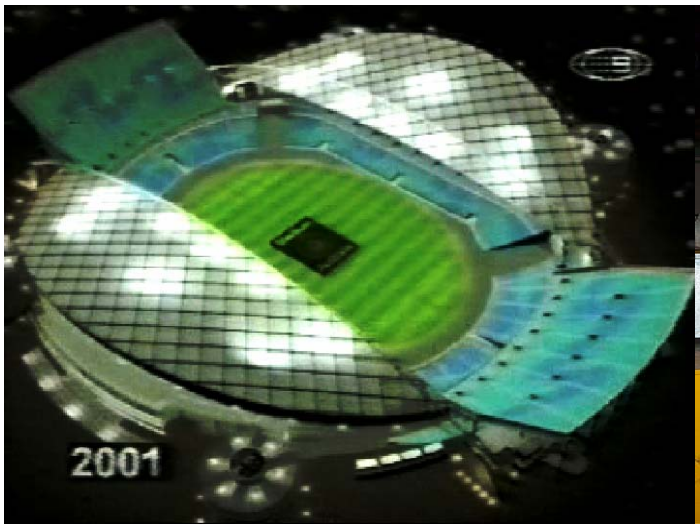
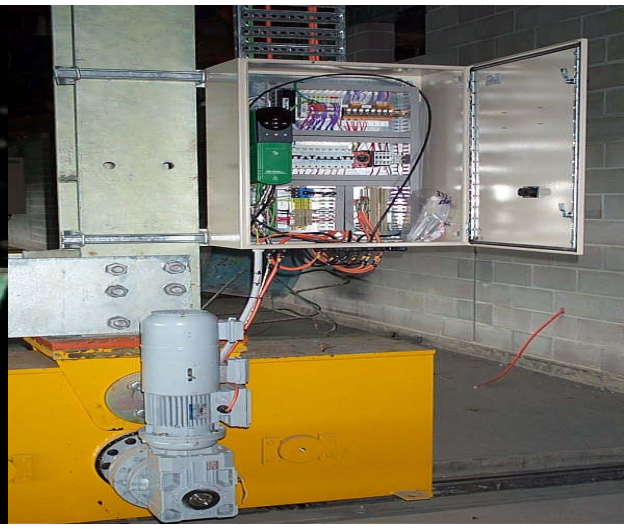
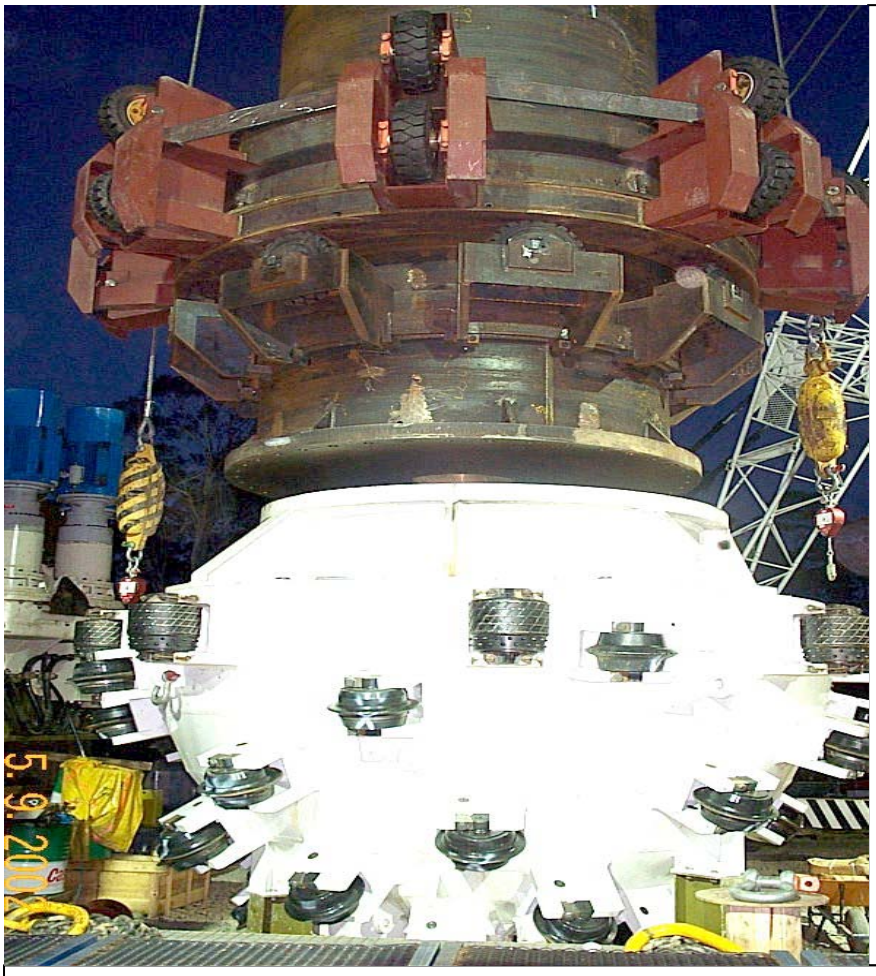




STADIUM AUSTRALIA CHOOSES CONTROL TECHNIQUES FOR PROJECT

- A major project to turn the 80,000 Stadium Australia into a multi functional sports and entertainment's venue was completed with the help of Control Techniques
- Fully movable stands are controlled by 60+ Unidrives, moving 3000tonne tiers within accuracy of +-0.5mm!
- Sine/Cos encoders along with CT32 SCADA were incorporated to the system which was built to demanding specifications to withstand natural disasters such as earthquakes
- Control Techniques won the $1million dollar contract because of the capability of Unidrive and local support!



CONTROL SYSTEM FOR AN AUTOMATIC RADIO CONTROLLED DRILL RIG

- Control Techniques secured the contract against ABB, Vacon and Alan Bradley to offer this unique application unrivalled control and cost effective solution
- Unidrive along with SYPT functionality with CTNet , UD70, CTIU ensured that the application solution was completed ahead of schedule!
- 300kW of power is required for the hoist to lift 300tonne at a rate of 0.06m/s with Unidrive
- Unidrive Size 5 x 4 with 2 control pods maintains precise control and torque!

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CONTROL TECHNIQUES IS THE GREENEST OF THEM ALL!

- Aluminium can recycling plant in Poland has production lines controlled by seven Unidrives
- Seven Unidrives along with 2 Devicenet and Solutions package “Flying shear” maintain the plant and ensures its at its most productive
- Over 70% of Unidrives in the application are fitted with the powerful UD70
- All drives are connected through Devicenet bus system



UNIDRIVE SP IS FOOTBALL CRAZY!

- Italian manufacturer of synthetic grass for football pitches uses Unidrive SP in its machines!
- 12 Unidrives SP connected with Profibus, make easier use multi-axis control, with digital lock, load control and dancer control. All this with the same drive!
- Customer makes big savings because of the standard features of Unidrive SP :
  Profibus as standard
  SMARTCARD for fast setting of drives parameters as standard
- No EMC filter required, possiblity to control different types of motors and only ONE keypad among the 12 drives

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HIGH PERFORMANCE SAW IS A CUT ABOVE THE REST WITH UNIDRIVE

- Slovenian saw machine company uses Unidrive and Unimotor from Control Techniques on all their machines
- Machines are used for cutting to length insulation material with a capacity of 18 cuts/min at material speed of 30 m/min and cross length of 3 m.
- There are 7 servo systems (with powers up to 22kW). The servo drives and 80 I/O are controlled by MC216 motion controller. The controller is a part of SCADA system in the factory enabling the staff to monitor and adjust parameters remotely.



ALUMINIUM LINE GIVES KNOCKOUT PUNCH WITH AC DRIVES

- Aluminium production punching line based in Slovenia uses a servo system from Control Techniques
- There are 3 servo systems in line for profile positioning. The Servo drives and 144 I/O are controlled by MC216 motion controller. Factory PC is equipped with touch screen for use as a HMI
- The market requests high flexibility and different dimensions of aluminium frames for air conditioning tube systems and Control techniques were able to supply the right product
- The Visual Basic application optimises the use of material according to the requested list

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UNIDRIVE SP SOLVES A 19 POSITION MIXER PROBLEM WITH JUST 1 DRIVE!

- Application solve with just 1 Unidrive SP with all the PLC functions and the positioning feeding directly into the Unidrive SP
- Customer has now saved over 40% costs as Unidrive SP has reduced costs
- Improved process and control is as standard since Control Techniques installed the product



CAR WASH APPLICATION IN DENMARK USES NEW UNIDRIVE SP

- Production cost and time reduced since Unidrive SP has been commissioned at a car wash in Denmark
- Unidrive SP has replaced ageing and expensive Omron machine
- Production rates have increased by up to 50%!
- Control Techniques still made a good margin whilst undercutting competitors!

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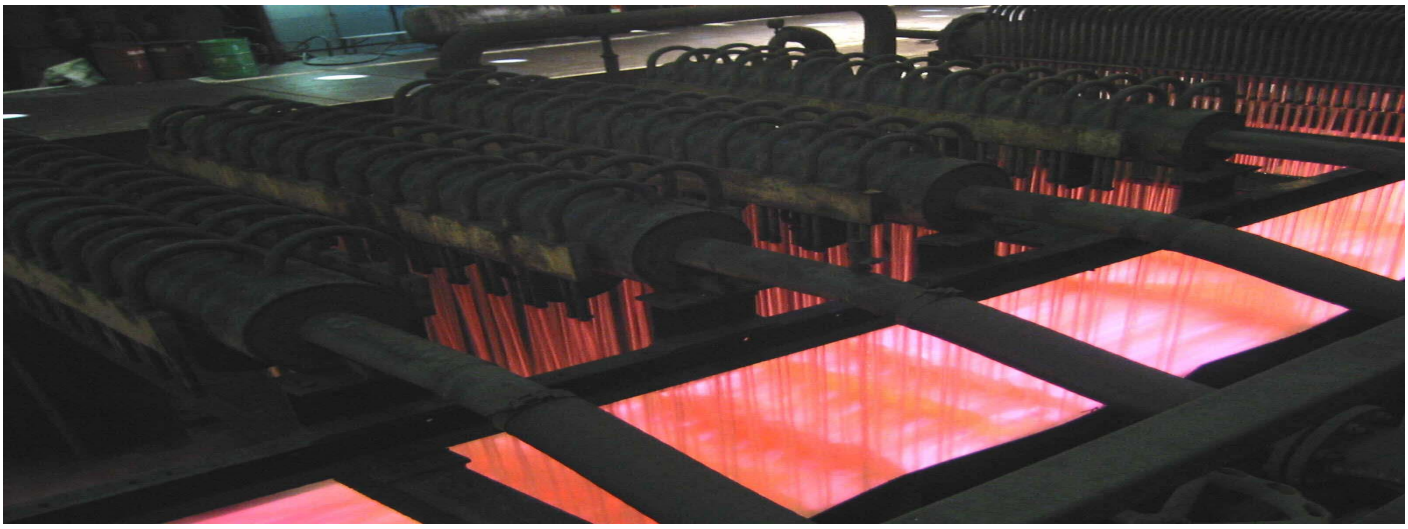

NEW APPLICATION AND EXCELLENCE IN INDIA

- TATA Steel, the largest steel manufacturer in India installed Unidrive for improved control and safety features
- Unidrive 360kw controls table motors in steel mill with a process speed of 720 metre p/min
- Customer chose Unidrive for plant for reduced hardware cost, superior control, wide voltage range and reliability
- Customer expects to save 60% in energy saving!
- ABB & Alstom failed to satisfy technical requirement!



NATIONAL STEEL USA TO USE UNIDRVE SP FOR CONTROL

- One of America's most productive steel plants has recently installed 23 Unidrive SP
- Application is steel mill - hot strip runout tables controlled by Unidrive SP because of capability to work with various brands of AC motors
- Profibus offers reduced downtime and consistent unmarked and high quality product
- Recent success of Unidrive Classic at another steel manufacturer where CT installed 70 drives in this same application in only 5 days helped secure the contract at National Steel!

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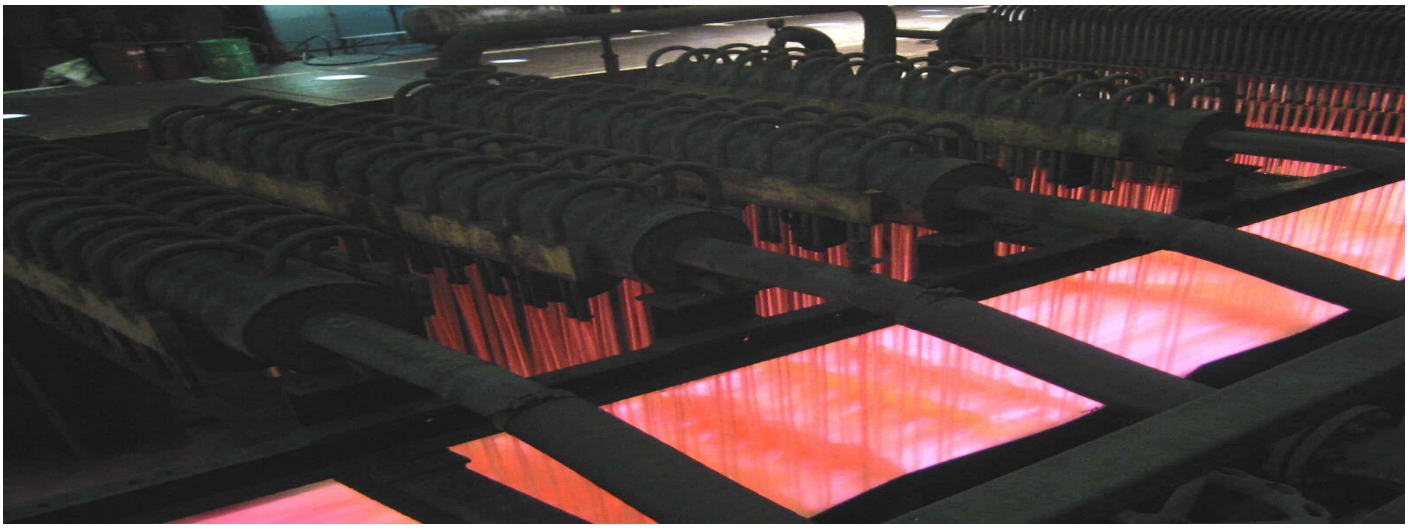

HOT-ROLLING MILL IN HUNGARY IMPROVES QUALITY THANKS TO CONTROL TECHNIQUES

- Control Techniques Hungary set the task of improving steel quality by controlling the cooling water-current.
- Quality was improved by employing Unidrive Size 5 and separate PLC and changing the revolution of the pumps!
- Commissioning was staggered at customer request and the customer now benefits from over 20% energy savings!!!



UNIDRIVE CONTROLS DOCKSIDE CRANES

- Six new portal luffing cranes built in 2002 use Unidrives from Control Techniques and motors from Leroy Somer
- Control Techniques Hungary supplied full system using Unidrive sizes 1, 2, 3, 4, and 5
- Further 6 portal luffing cranes being commisioned in March 2003
- Unidrive undertakes various tasks including Hoisting, Jib rotating, Jib luffing, Crane moving and Supply/regen

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UNIDRIVE SP BOOSTS PRODUCTION AT CONCRETE PLANT

- Belgian company designing machines for the production of concrete floor elements, ceilings and partitions chose Unidrive SP for a new slipform machine
- Control Techniques proposed a new concept, Machine based on integrated drive system on 3 axes, based on 3 Unidrive SP' with application modules. The system was commissioned and tested in 3 weeks
- 3 Unidrive SP's connected by CT-Net and Profibus provide superior positioning and control.





1500ton PORT CRANE USES UNIDRIVE FOR CONTROL

- Crane Lifting Equipment based in Shanghai, China with a Lifting height of 95M at 2M/min!
- 370kw hoist motors controlled by 24units of Unidrive size 5 supplied by CT China
- UD70 Application modules are fitted onto drives for digital lock and other application control function. Also communicate with GE PLC via Profibus.
- Customer chose Control Techniques Unidrive size 5 for its modular design, proven technology and local support in Hong Kong and Shanghai.

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CONTROL TECHNIQUES HELPS PASSENGERS ON AND OFF AT AIRPORTS WORLDWIDE

- Telescopic elevation bridges at airports in Turin, Barcelona, Rome, Milan and Geneva are all controlled by Control Techniques drives
- Unidrive operating in closed loop mode controls sychronisation of bridge and automatically allowing small and accurate movements to be made
- Control Techniques also supplied motors, gearbox and braking unit
- The solution allows for soft, smooth and precise operation in any situation!



CRANE UPGRADED TO HANDLE OVER 200 TONNE

- Crane rebuild using new Control Techniques drives and motors doubles crane weight capacity
- 200kW AC hoist motor is controlled by two 120kW Unidrive operating in vector mode with plug in UD70 provides smooth directional control
- Hand- held remote radio controller with stepless control on all 3 axes!

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BALANCING ACT SHIPS CRANES OUT TO SEA

- 2 Winches situated either side of ships stern controlled by vector AC drive and AC induction motor
- Vector maintains tension during loading or unloading to keep ship level
- 22kW Vector torque limitations imposed by max cargo weight is only around 10% of drives own torque limit!
- Control Techniques designed, built and commissioned the entire winch control system for the customer.



AC DRIVE PASSES DRIVING TEST FOR CRANES

- Swiss crane and cable car maker retrofitted to a five year old crane with a new 22kW Vector AC drive
- 12m high crane capable of lifting 12.5 tonnes travels 150m along machine shop
- AC motor replaced traditional DC motor for cost savings and reduced maintenance requirements
- Position accuracy achieved with Vector + - 0.1mm with no jerk positioning

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MENTOR II IS DRIVE OF CHOICE FOR PRINTING GIANT

- World leading printing press in Germany selects Control Techniques for “hundreds” of drive systems for high level of automation and production rates
- Machines capable of producing 15,000 sheets per hour with new Mentor II DC system
- Modular in-line machines with common drive from one shaft ensures flat, smooth sheet runs with minimal wastage



UNIDRIVES PROVIDE SOLUTION FOR CRANE CONTROL

- Norwegian port of Tonsberg new £1.2 million harbour crane uses Unidrive for motor control
- Crane has operating radius of 11 to 30 metres
- Four seperate drive requirements: the hoist, the boom lifting and lowering, slewing control and lateral movement all controlled by Unidrive

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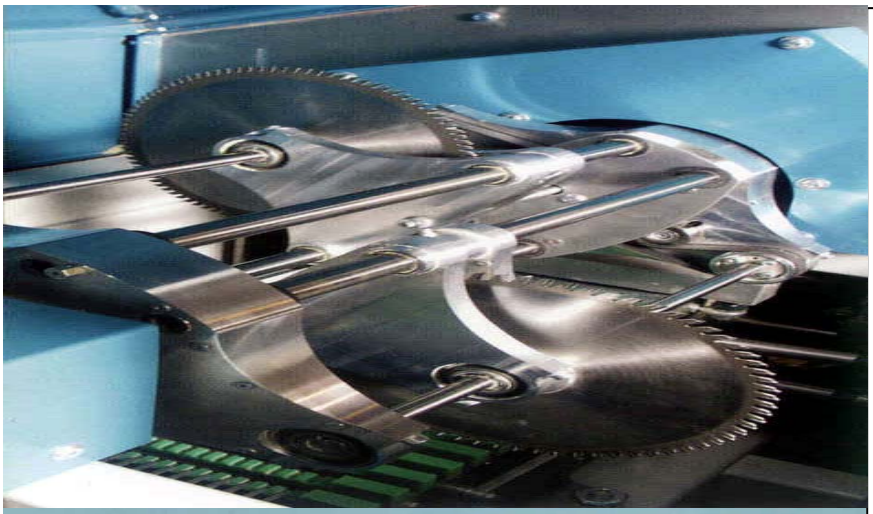
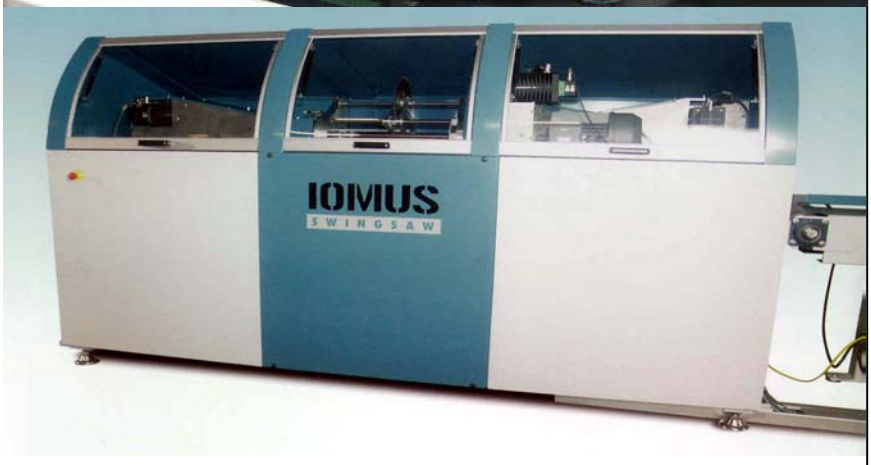
CONTROL TECHNIQUES SUPPLY NEW DYNAMOMETER PACKAGE

- Pump manufacturer enhances test capability by commissioning Unidrive package supplied by CT UK
- A UNI5402 in bi-directional synchronous rectifier (regen) mode powers a UNI5403 motoring drive. The SRD inverter is coupled on the AC bars.
- A Schorch induction motor supplied by Control Techniques is rated 345 kW from 3000 to a relatively high 8100 rpm
- Control Techniques demonstrated its understanding of dynamometers and were able to provide a high speed motor and references to other auxiliary equipment on the rig including the in-line rotary torque transducer





DUAL FLYING SAW WITH ROTATING BLADE ASSEMBLY BENEFITS FROM M'AX SERVO DRIVE

- Saw allows cutting wooden boards of various dimensions to pieces ranging from 30mm with max. 5 cuts per second
- Application uses 6 M'Ax servo drives and UNIMOTOR SL servo motors with MC300 motion controller. Additional Commander SE's for operating conveyors
- Compact high performance servos able to meet the speed & accuracy requirements of highly dynamic application
- Machine significantly faster & more accurate than traditional feed/cut type machines and beat Siemens to win contract
- Motion controller also provides user interface & communications capabilities

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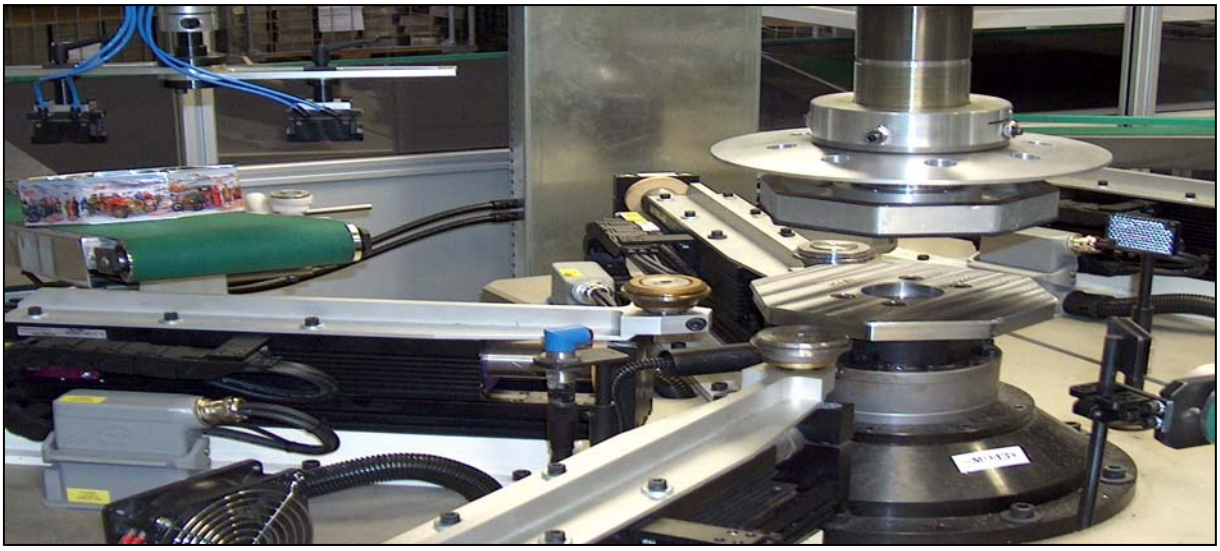
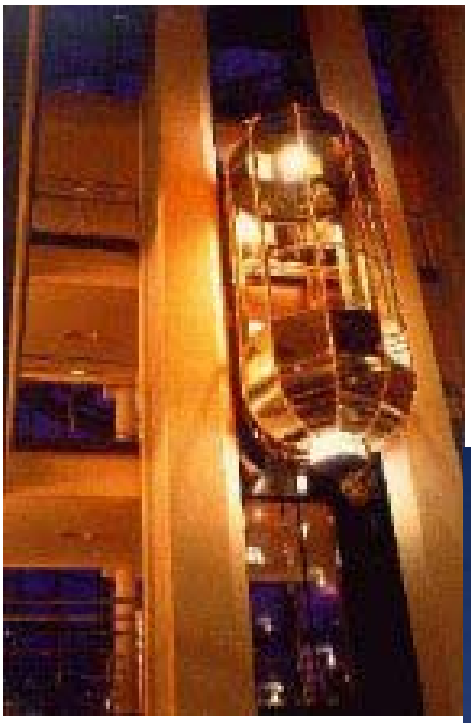


DANISH CONFECTIONAY MAKER KEEPS UNIDRIVE SERVOS SWEET

- Control Techniques Denmark customer manufacturing confectionary to be sold in “not round” display tins uses 54 Servo Unidrives from Control Techniques
- Unidrives are utilised in a variety of tasks through out the fully automised and hygenic plant
- Unidrive in Servo mode was chosen by the customer for high speed accuracy and class leading reliability
- Customer saved over 70% in tool and down time costs by installing Unidrive
- The machine is run by one single operator!





ALKO GmbH, Germany
Unidrive SP Lift Drive

- High Performance Drives for Comfort Lifts with high floor level precision of < 1 mm
- For Gearless Lifts with speeds up to 2 m/s and loads up to 2000 kg
- Permanen Magnet Servo motors for gearless lift drives
- Using Unidrive SP from 4 kW up to 22 kW
- Standard industrial drive suitable for high demanding lift applications
- Standard Sincos Encoder Interface with Endat Protocol
- High Performance Lift control with integrated Comfort- S- Ramp and Mechanical Brake control

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A SWEET SOLUTION FOR CONFECTIONERY PROCESS

- Company making confectionery for ice creams, biscuits etc switched from a mechanical process to a servo-drive solution using Unidrives with Unimotors
- Boosted production rates, improved quality, rejects 50% down & reduced maintenance
- Adjustment now takes a matter of seconds (compared to 30 minutes), in real time and at a touch of a button. Throughput speeds exceed the maximum line speed, so bottleneck is completely removed, maintenance downtime has been eliminated and quality is spot on, with rejects reduced to virtually zero.



ROYAL MINT COINS IT IN WITH HELP OF CONTROL TECHNIQUES

- Upgrading of nine coin presses at the Royal Mint has given each press a potential increase of a massive *66%!*
- Output increased from 300 up to 500 coins per minute with significant savings in maintenance time and costs
- Each upgraded press has an 11 kW Unidrive, with UD71 to provide an RS232 interface, controlling 9kW motor for the flywheel via a clutch and a 3:1 gearbox, to give a max speed of 500 rpm

If you would like to more about any application please contact geraint.evans@controltechniques.com



CONTROL TECHNIQUES HELPS DRIVE PU TECHNOLOGY FORWARD AT ITALIAN MOULDING MACHINE MANUFACTURER

- Italian manufacture of high speed, moulding machines, with up to 80 position rotary tables, for the production of soles and shoes
- Machines can incorporate 30 or more Unidrives with UD73 and Profibus communications with brushless Unimotor servo motors, for a range of duties ranging from high-precision S-ramp indexing, constant speed, dispensing and dosing.
- Repeatable accuracy, no overshoot, reliability and good local technical support



COMMANDERS TAKE THE BISCUIT

- New wrapping machine feed conveyor for the conveying and stacking of crackers prior to wrapping, gives variable line speed to ensure constant pressure across 8 lines
- 21 Commander SE from 2.2 kW to 0.55 kW receive independent analogue speed signals from controlling PLC.
- Drives part of the standard package from Italy, but client would have insisted on Control Techniques drives if they hadn't been the OEM's choice anyway.

If you would like to more about any application please contact geraint.evans@controltechniques.com



UNIDRIVE CHOSEN FOR LINEAR MOTOR CONTROL ON BAGGAGE CAROUSELS

- Baggage carousels controlled using linear motors with dedicated version of Unidrives with pre-programmed co-processors, giving quiet running and significantly reduced maintenance
- Successful installations at Attaturk Airport in Turkey, Basle-Mulhouse Airport, Terminal 3 at Heathrow and Aberdeen Airport
- Control Techniques only company which could provide voltage control with low frequency, without having to resort to external pcb's
- Initial capital cost is a little higher, payback very rapid



DRIVES TAKE PLAYERS FOR ROUGH JUNGLE RIDE

- New breed of quad bike arcade games uses drives and motors from Control Techniques
- Two Commander SE AC variable speed drives and Leroy Somer gear-motors for each machine – thousands have been produced
- A combination of movements in two axes, to simulate the actual movement. The machine is capable of working with a total load of up to 200 Two machines can be linked, to make the game not only a race against the elements, but against another player as well.

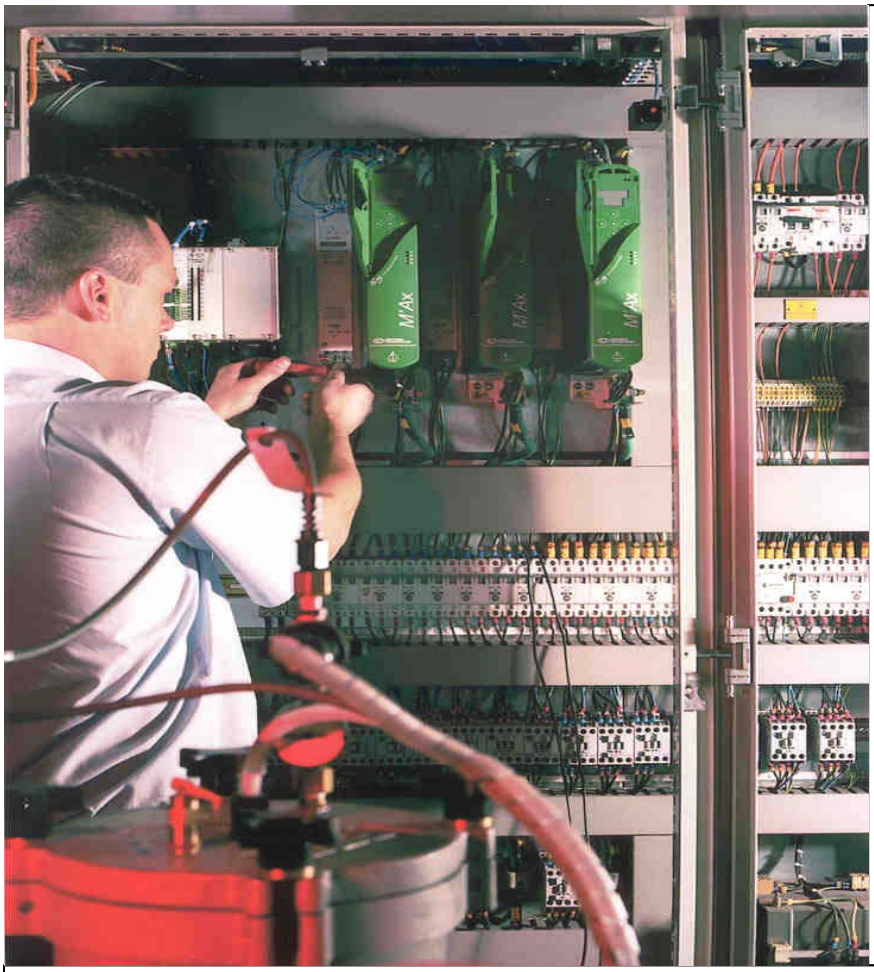
If you would like to more about any application please contact geraint.evans@controltechniques.com





GILLARD GIVE ROTARY CUTTER SERVO PERFORMANCE

- High-speed cutting-to-length of continuously-fed extruded plastics, rubber, food, soap and other specialist items such as catheters for the medical market
- Traditional system comprises a flying shear driven process, with a clutch-brake system, couplings, shafts and gearboxes, all subject to wear and backlash plus complex wiring - speed limited by components to around 300/400 cycles per minute.
- With MultiAx servodrive and Unimotors with SLM technology, the performance has been boosted by 500% to a massive 2,500 cuts per minute - PLUS an improvement in accuracy to ±0.06-mm as well as better reliability too!



HEAT EXCHANGER CORE BUILDER

- High-speed integrated 'Core-builder' machine featuring Unidrives , communicating with controlling PLC and control panel via DeviceNet
- Servo mode with UD70 module equipped with an embedded single axis position controller, which, in addition to primary position control functionality, also supports digital lock and cam profiling
- On-board processing facility of the Unidrives eliminates the need for a PLC

If you would like to more about any application please contact geraint.evans@controltechniques.com



JAGUAR RACING STEPS UP A GEAR WITH REFURBISHED TEST RIG

- 160 kW variable-speed drive testing rig with CT32 SCADA to simulate the on-track conditions that gearboxes encounter during F1 Races
- Two other 160 kW motors are in closed loop torque control and are coupled to the output shafts of the Jaguar gearbox to simulate the output loads. A final 5.5 kW Unidrive, referenced from the input drive, controls the gearbox oil pump motor
- System control is via CT-Net, that provides communications between the Unidrives' on-board UD70 SYPT-programmed application modules and the Pi-Sigma race car control system, as used on F1 cars





DRIVE SYSTEM SAVES MORE THAN A POULTRY AMOUNT

- Replacement of oil heating with a system using wood pellets has reduced heating costs by a massive 30-40%, giving a payback of 7 years, as well as reducing harmful emissions to the environment at a chicken farm in Finland.
- The scheme is easy to use, very cost-effective & uses the on-board processing power of Unidrives with UD75 modules, combined with the high-speed communications of CT-Net and a CTIU2000 control panel, to eliminate the need for a costly PLC

If you would like to more about any application please contact geraint.evans@controltechniques.com

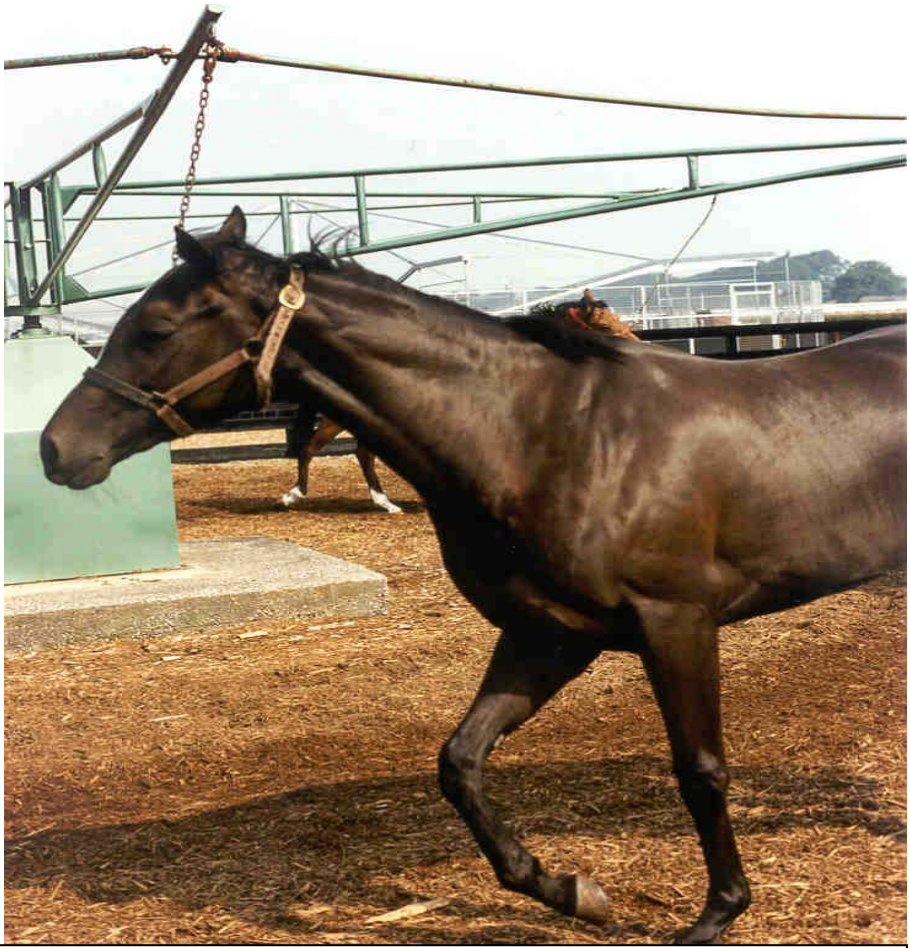


DRIVING WIND PROVES WINNING FORMULA FOR CONTROL TECHNIQUES

- Footwork Grand Prix team Wind Tunnel utilises drives in high–tech wind tunnel
- Mentor II DC drives and DC motors with MD29 communications module
- Mentors control fan power, maintaining precise speed control for rolling road and fans
- Control Techniques has high pedigree in Formula One racing

AUTOMATIC HORSE WALKERS KEEP THE WINNING HABIT

- Automatic exercising machines using Control Techniques Drives and Motors
- Cost saving on manpower through automated machine
- 1.5kW drive powers 1.1kW motors in both forward and reverse modes
- Overload trip mechanism installed for safety purposes



If you would like to more about any application please contact geraint.evans@controltechniques.com



SHEAR GENIUS

Unidrive SP selected for CNC Press Brake contract

- Control Techniques has won a key contract to export 300 sets of Unidrive SP AC drives and Unimotors to a Spanish manufacturer of CNC press brakes and shears.
- The application is for two axes of brushless AC servo, each comprising 1.1 kW Unidrive SP, complete with plug-in resolver feedback module, a Unimotor brushless servo and an LED display
- Key factors in the order were the easy cloning capability using SmartCards saving considerable set-up time, the dynamic performance of Unidrive SP, the future proofing of the drive and, in particular, the flexibility in communications, particularly CANbus



THE DRIVES BEHIND THE ROLLING STONES LICKS TOUR

- Control systems for the on-stage back-drops & video screens & high intensity LED screens that can be relocated to form different shapes - and 8light pods that fly up and down their tracks at breakneck speed
- Unidrive has a UD75 co-processor, giving CT-Net connectivity plus additional processing capacity.
- Unidrives used as standard because of more flexibility in use, on-board comms options and total reliability, crucial to short turn-around time between shows, everything has to be dismantled, shipped and rebuilt in a matter of hours.

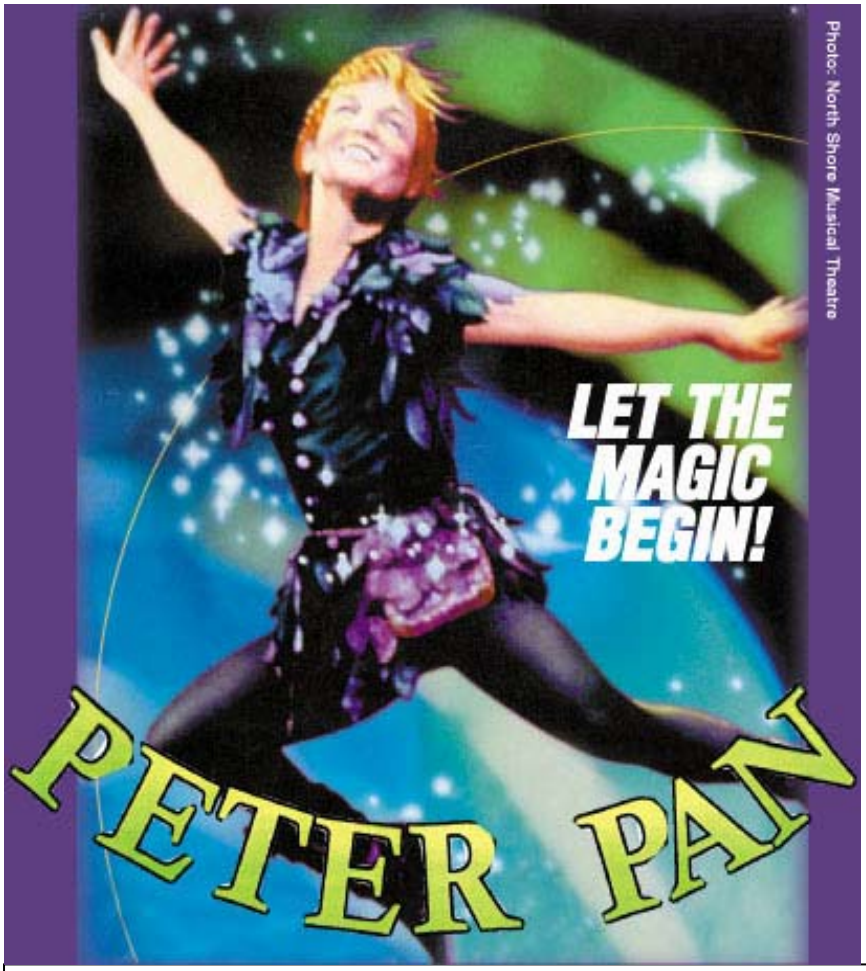
If you would like to more about any application please contact geraint.evans@controltechniques.com





THE WORLD IS NOT ENOUGH

- The helicopter / buzz saw stunt, where a BMW Z8 and a timber built caviar factory are cut in half – in one take!
- Achieved by suspending helicopter from 100 ft Liebherr tower crane with 80 metre boom length – to operate as a four-axis machine programmed and controlled from laptop computer.
- The tracking (5.5 kW) and hoist (120 kW) both featured Unidrives with UD70 plug-in modules for extra processing
- Achieved positional accuracy within 1-mm, crucial as the 6-metre buzz saw with 1-metre rotating blades had to hit cue positions less than 150-mm wide.



FLYING TONIGHT!

The drives that helped Peter Pan to reach the heights

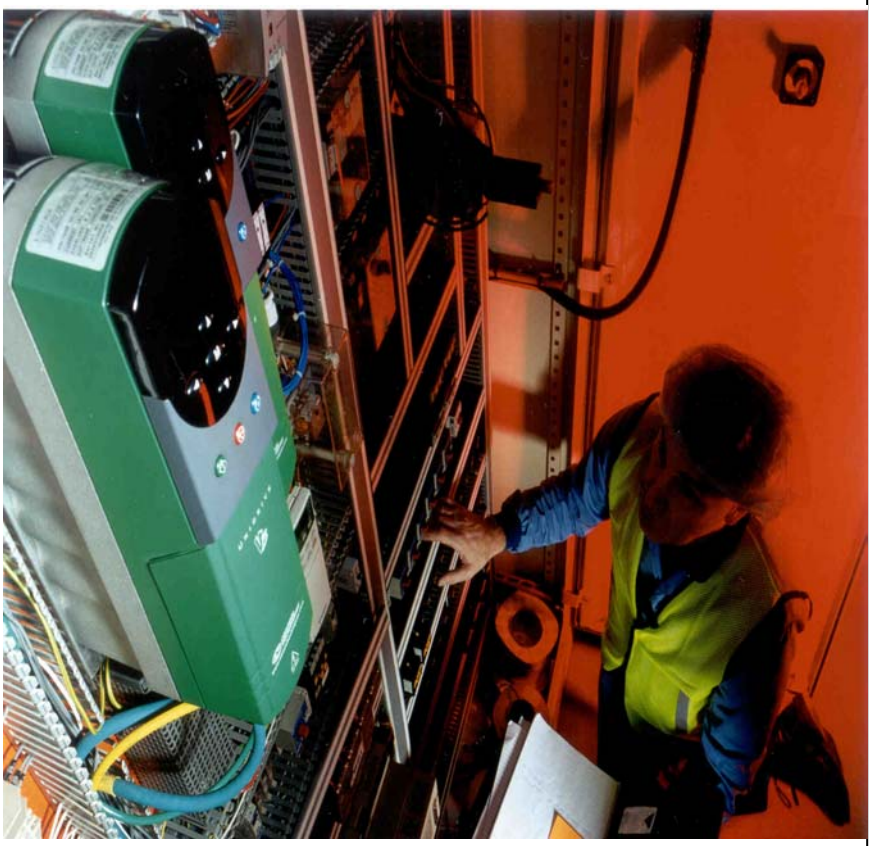
- Highlight of 'Peter Pan', at the Royal Festival Hall, is Peter's soaring flight across the auditorium, achieved with a pair of bridles and winches under the control of 11 kW Unidrives powering 190D Unimotors, with sin/cos feedback
- Each drive fitted with a plug-in UD75 co-processor that allowed on-board programming of the 'profile' of the flight & communication between drives to the controlling PC via high-speed CT-Net. Drives digitally locked together to give a completely repeatable X-Y profile, accurate to a millimetre.

If you would like to more about any application please contact geraint.evans@controltechniques.com



‘WE WILL ROCK YOU’ LAUNCHES WITH CONTROL TECHNIQUES DRIVES

- Movement of scenery and video screens at new Queen fantasy musical, ‘We will rock you’ - movement of the ‘High-School colonnade’ and the set of the Tottenham Court Road tube station, control of four truck-driven video screens and, four ‘flown’ video screens.
- Cues are loaded into a CTIU200 and called from a PC for a range of synchronised sequences. Achieved with simple linear profiles loaded from the CTIU200, via CT-Net, simultaneously into the standard LiPoS linear positioning software within each drive’s co-processor unit.
- Digital lock between the drives proved to be unnecessary because of the accuracy of the LiPoS profile, simplifying development time of the commissioning and trials to just a few days.



ABSOLUTE PRECISION AT JOHNSON & JOHNSON

- Upgrade of 28-position palletising line, at a company making sterile wound dressings and theatre drapes for the hospital market, because of poor reliability& accuracy – causing a major bottleneck
- Positioning of the trolley is crucial at each collection/discharge point, since the conveyors have to line up precisely for each operation
- System comprises 4 kW Unidrive plus UD75 with positioning software, 5 NM Unimotor servo-motor, fitted with an absolute encoder, moving trolley along 20 metre track

If you would like to more about any application please contact geraint.evans@controltechniques.com



DRIVES BRING WELSH PIPER BACK INTO TUNE

- Overhaul of 'Welsh Piper' dredging vessel included the replacement of the unreliable DC drag bucket drives with Mentor II DC drives
- Inhaul winches rated at 150kW and the outhaul at 90 kW, each Mentor II fitted with FMX5 field controllers that provide overspill control for fast operation on the outhaul phase. Encoders feed back to the controlling PLC, which communicates with the drives via RS485, co-ordinating the actions and giving positioning to accuracy of 20-mm
- Requires speed and accuracy control whilst maintaining a low tension on the trailing rope to prevent slack



WIZARD DRIVES FOR CHAMBER OF SECRETS SLIDE

- One of the key stunts in 'Harry Potter, The Chamber of Secrets' was the 'helter-skelter' chute down into the 'chamber of secrets'.
- The chute was horizontal, the actors sitting on tiny seats, attached by rod to winch-driven chains.
- Speeds up to 7.8 metres per second, coupled with positional accuracies of 0.5-mm – Unimotor chosen for this application gives a rated torque of 36.8 Nm, 3,000 rpm and rated power of 45.8 kW, with a 55 kW Unidrive working in servo mode.

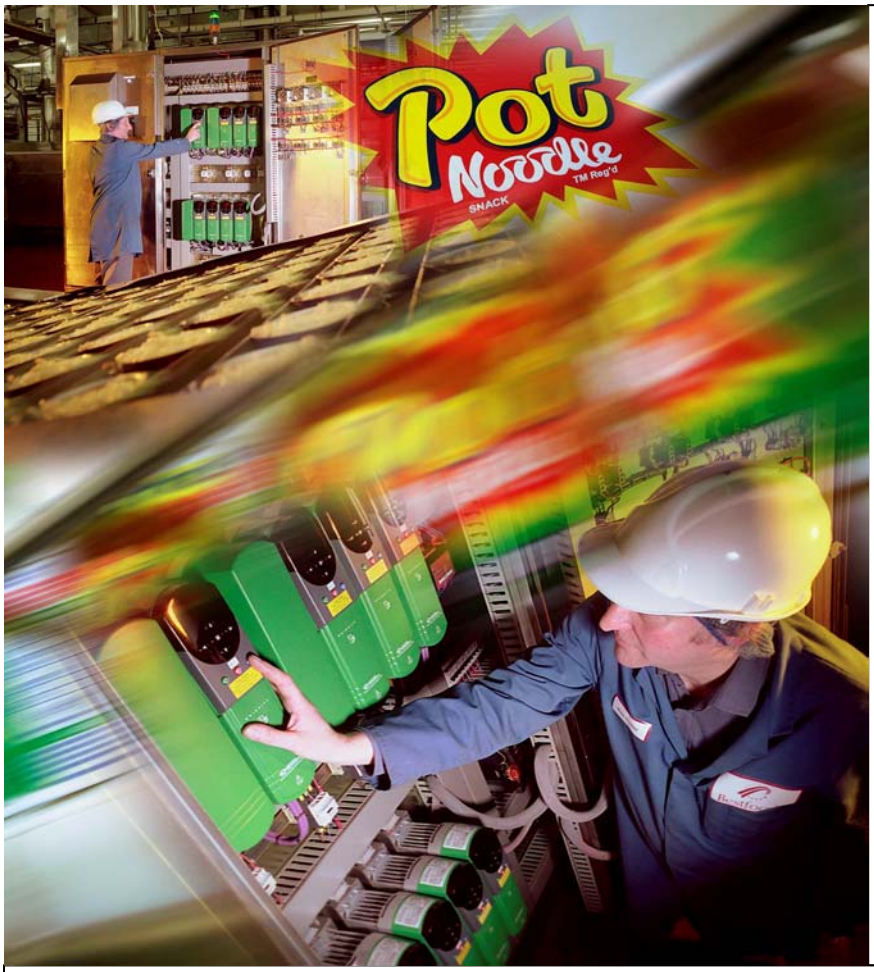
If you would like to more about any application please contact geraint.evans@controltechniques.com





GEARLESS FLEXO PRINTING COMPANY CHOOSES UNIDRIVE SP FOR NEXT GENERATION OF MACHINES

- New range of gearless rotary colour impression presses
- System based on Unidrive SP, digitally locked to virtual master and networked via Ct-Net
- Quality comparable with geared machines PLUS total flexibility in operation: infinitely variable pitch, dramatic cut in job times, 50% saving in job changeover times
- Low maintenance and energy-saving



THE DRIVE TO PRODUCE MORE POT NOODLES

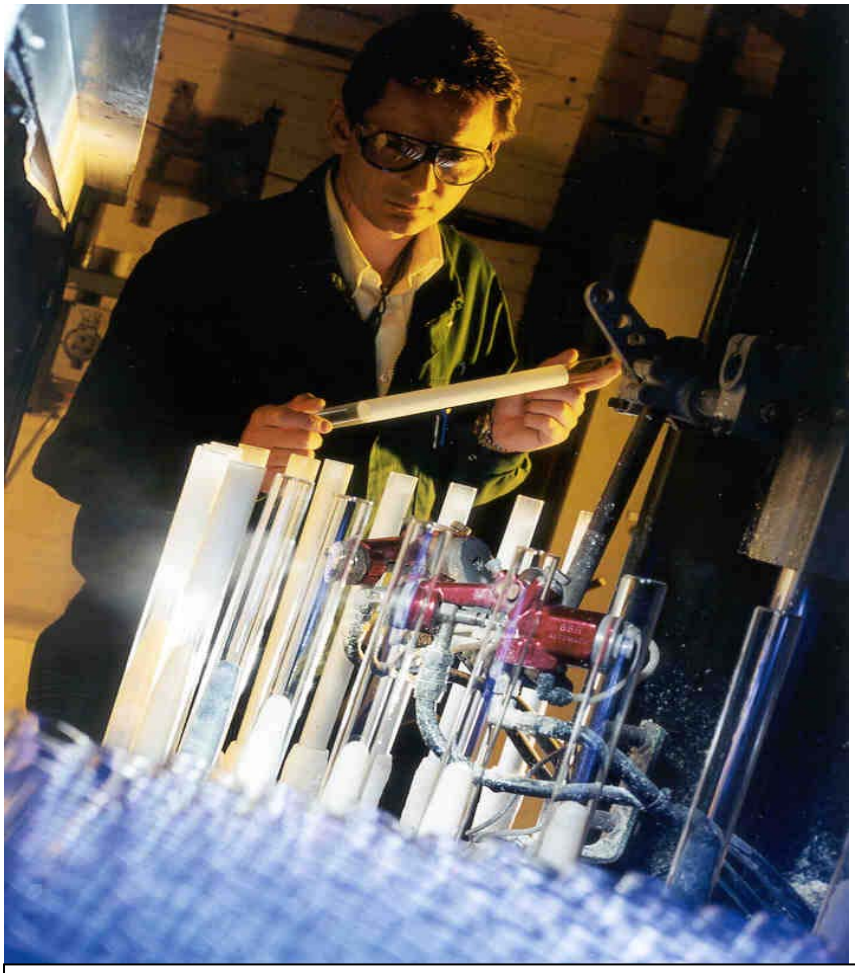
- Three upgraded production lines manufacturing 150 million pot noodle snacks at Welsh food plant
- Chose Unidrive with UD73 to give Profibus connectivity to PLC controllers, plus precise synchronism of drives from sheeter through to the packaging section.
- Lines exceed daily targets

If you would like to more about any application please contact geraint.evans@controltechniques.com



DANISH CHEESE MAKER USES ELEVATOR DRIVES SYSTEM FROM CONTROL TECHNIQUES

- Elevator system using Unidrive in SERVO mode, 115 UMB Unimotor and Control Techniques software
- Application produces 5 tonne of cheese per hour and previous system could not manage. Unidrive responds faster and more accurately
- Feedback is from shaft mounted encoders on Unimotor servo motor



UNIDRIVE SERVO CONTROL IMPROVES QUALITY ON SPRAY MACHINE

- Semi – Automatic twin head spraying machine has increased output by 50% and made savings of £30,000 per annum by using Unidrive Servo drives
- Complete servo system replaced old system and is now based on a single axis drive for lowering spray heads
- Further Unidrives fitted to provide improved control to chain conveyor and baking unit chain drive

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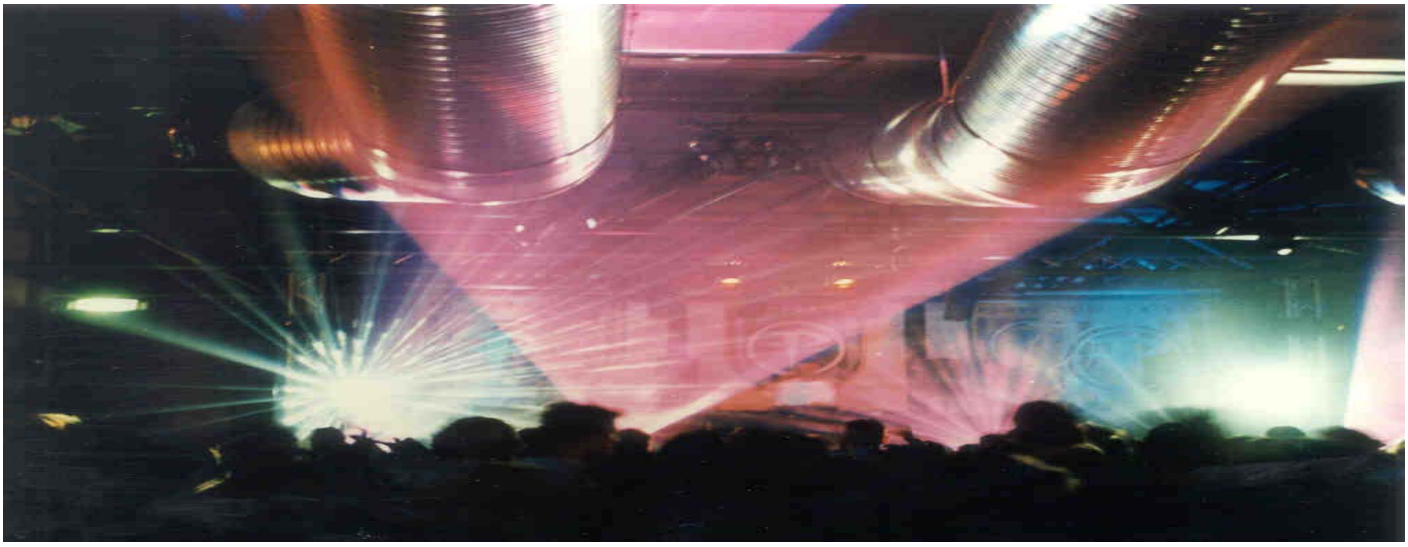
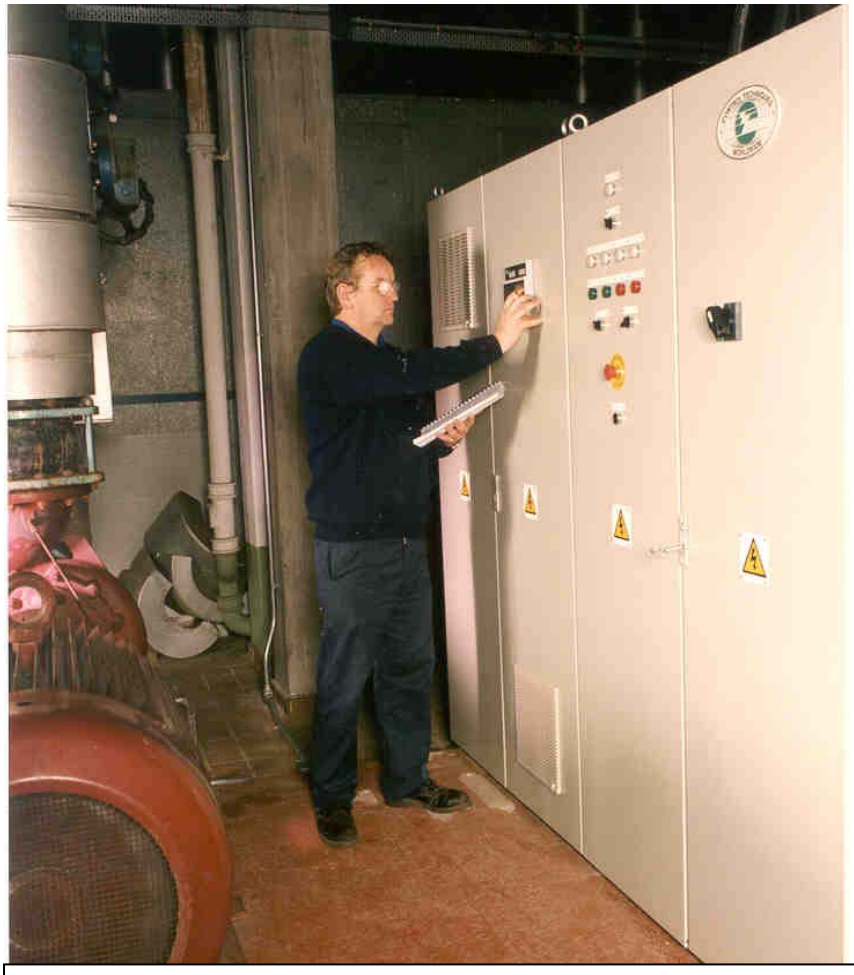


15% ENERGY SAVING AT OXFORD STUDENT UNION

- Air handling units previously ran on manual switching controllers, now Unidrive offers continuous adjustment of speed which gives up to 15% savings on fuel bills
- Temperature and Air quality monitored by detectors installed by Control Techniques and offers dynamic voltage/frequency control
- Unidrives connected to and controlled from central building management system



ENERGY SAVING AT CHILLER PUMP INSTALLATION

- 160kW motor drives chilled water pump for 18 storey heavily glazed and air conditioned building
- Contract awarded to Control Techniques to supply solution with Unidrive and soft start bypass facility
- Installation saves customer £1,000 per month and payback in less than 18 months
- Power consumption has fallen from 160kW down to under 50kW!

If you would like to more about any application please contact geraint.evans@controltechniques.com



HYATT REGENCY SINGAPORE KEEPS COOL & SWITCHES TO HVAC EQUIPMENT

- Premier Hotel in Singapore reviewed all of its HVAC systems and engaged the services of Control Techniques to provide the solution
- Drives replaced by new 7.5kW and 5.5kW for chilled water pumps in the hotel
- Control Techniques has pedigree in offering HVAC solutions to many public locations around the world



DRIVE SYSTEM GIVES 2 YEAR PAYBACK FOR WIRE DRAWING

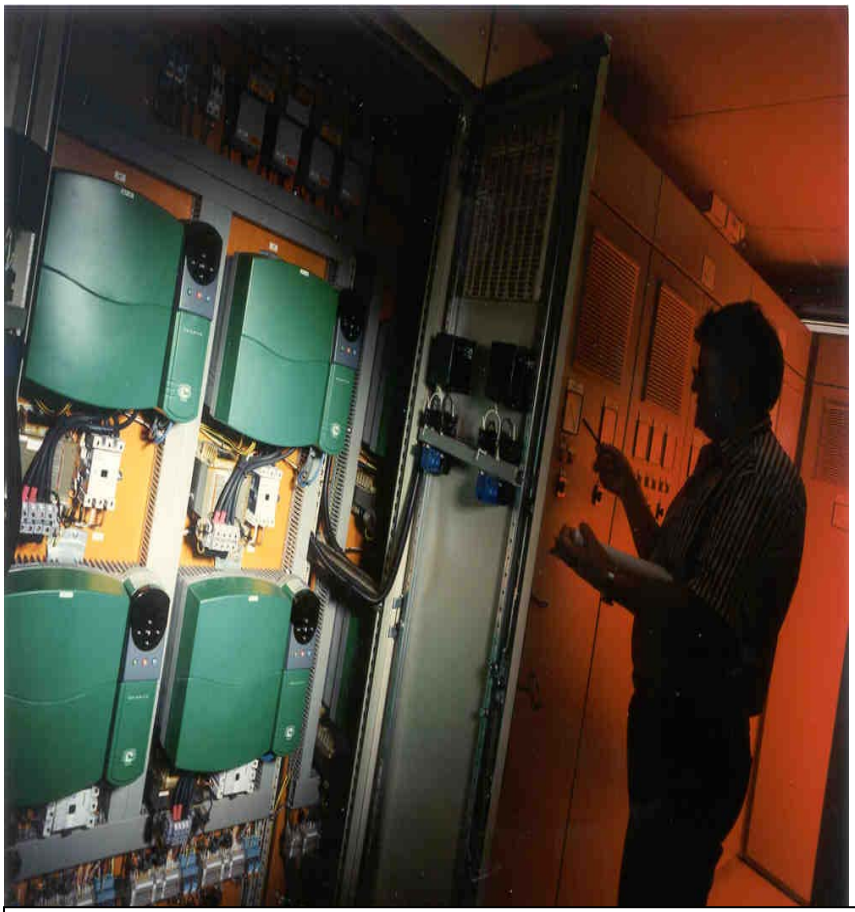
- Bridon, leading manufacturer of steel wire and large structural stands increased production and downtime by switching to Control Techniques Mentor II
- Built to order system comprising 56kW Mentor II and MD29 comms controlling the dancer arm which takes up slack wire aswell as providing optimum speed and minimal movement
- On board system diagnostics reduce downtime and time to run indicator reduces maintenance costs!

If you would like to more about any application please contact geraint.evans@controltechniques.com



COOL COMFORT AT MILLENIUM DOME THANKS TO CONTROL TECHNIQUES

- Largest enclosed space in the world chose 74 Unidrives to control the fan speed in the air handling units servicing the main dome
- Unidrives in the application range from 0.75kW to 160kW to match the changing weather conditions and visitor volume as well as offering energy savings at off peak periods
- System control is from the building management system which supplies 0-10 volts speed reference and emergency over-ride in the event of an emergency



UNIDRIVE UPGRADE FOR PAPER MACHINE

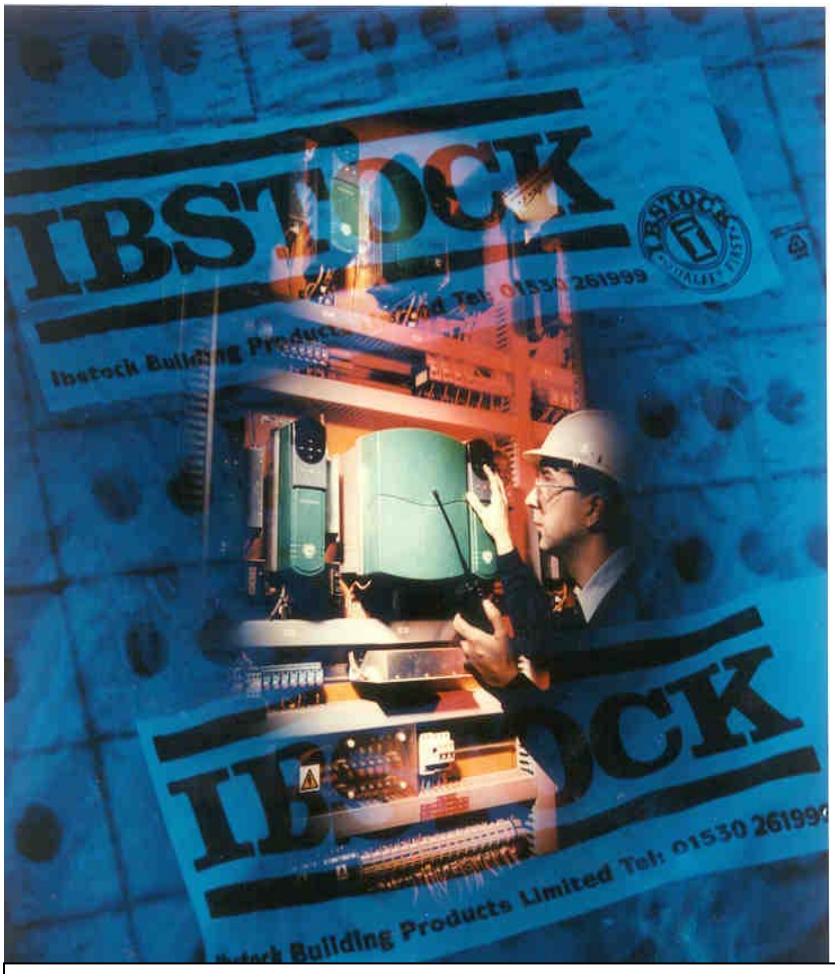
- Worlds only manufacturer of a complete range of greaseproof paper upgrades 2 machines with 24 Unidrives and UD70
- Switch to Unidrive increased machine capacity and improved reliability whilst also reducing maintenance costs
- Unidrives operate in closed loop mode with CT-Net

If you would like to more about any application please contact geraint.evans@controltechniques.com



DRIVES CHOSEN FOR RELIABILITY & SUPPORT ON MACHINERY

- An Italian Manufacturer of wire mesh for the construction industry has standardised on Servo drives from Control Techniques
- Machines contain as many as 30 drives and motors all controlled by a PLC. The Servo drives offer high performance and accuracy
- Machines are capable of producing various patterns of mesh with diameters as small as 6mm!



NEW BRICK PLANT USES UNIDRIVE

- UK brick making plant features 37 Unidrives from Control Techniques
- Drives are used all through the plant for conveyors, lifts and palletisers in both open and closed loop modes
- Conveyors controlled by 1.1kW Unidrives running in open loop at a fixed ratio
- Lifts are controlled by 5.5kW Unidrives in closed loop providing precise control!

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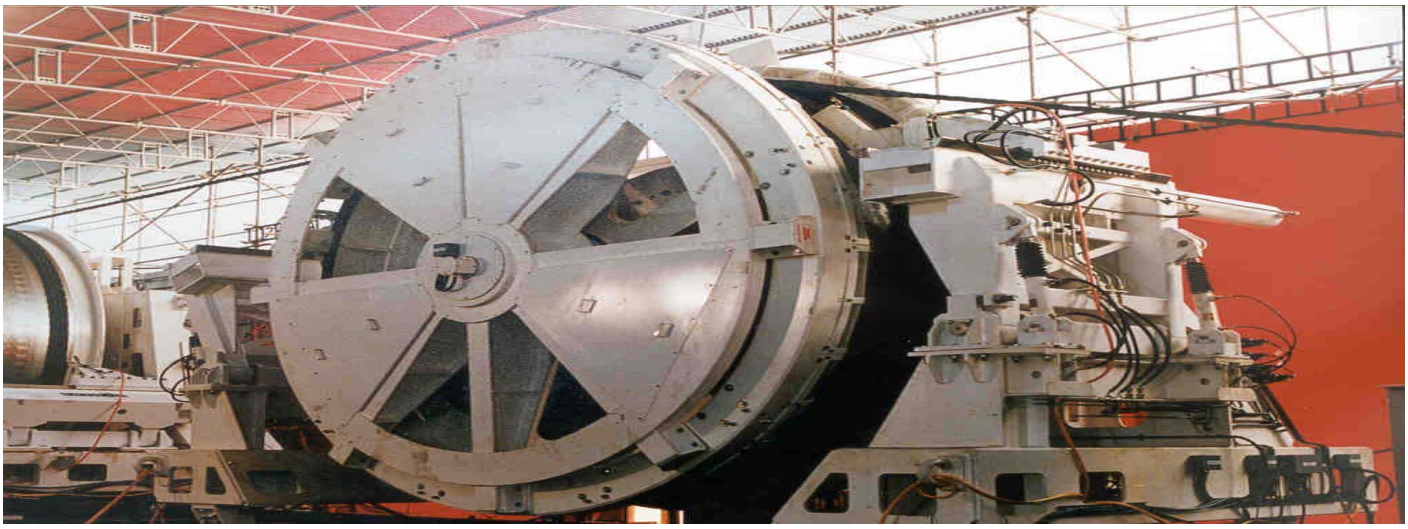


CABLE LAYING SHIPS USE DRIVE CONTROL FOR FIBRE OPTIC CABLES

- Latest generation of cable laying ships meet the demands of fibre optic cable laying by using drive technology from Control Techniques
- Cable drum has three 85kW DC motors which drive a ring gear around the drum, all three are control by Mentor II and MD29 comms
- For maintenance and safety purposes the drum will run on a single drive and the system is designed for maximum drive availability at all times for continuous cable laying!



PAINT SHOP SUPPLIER USES UNIQUE DRIVES SOLUTION FOR PERFECT FINISH

- Paint applicators on fully programmable top and side axis for vehicle spraying
- All positioning is controlled using sensorless open vector with 18 Unidrives ensuring accurate profiling whilst maintaining common distance
- For greater accuracy and power, Servo drives are also specified



FEEDER UPGRADES BOOST LINE CAPACITY FOR FURNITURE MANUFACTRUER

- Manufacturers of flat pack furniture upgraded production lines to use AC drives from Control Techniques
- Result: Increased production output and slashing of maintenance costs by 50%
- Mechanical overhaul to include AC drives, PLC and servomotor controlling speed of production line to suit customer needs
- Positioning with new system in place is better then 0.25mm with no hunting!



SPECIAL 1.5MW DRIVE DESIGNED FOR TIPPING STEEL CRUCIBLE

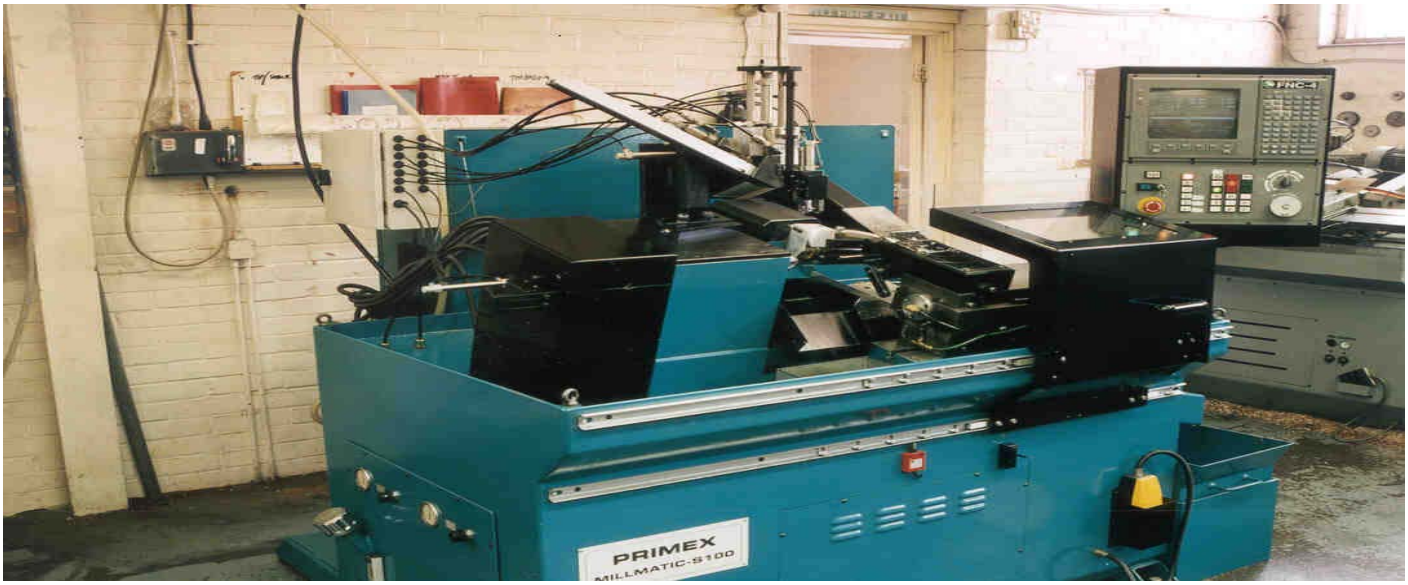
- Steel recycling plant in The Netherlands required a demanding 4600amps, 1.5MW DC drive for a 350 tonne tipping converter – The Answer Mentor II
- Eight DC motors working in synch control the massive 10m diameter converter with a requirement for full torque control through the whole process until zero speed when brakes are applied!
- Mentor 550R and 155R also control two injection lances in the plant

If you would like to more about any application please contact geraint.evans@controltechniques.com



CONTROL TECHNIQUES CHOSEN FOR PIPE LAYING DUTY

- Pipe laying vessel laying over 190km of pipe in 500m depths chose AC drives from Control Techniques
- Drives provide a system similar to conventional hydraulic application, but bringing benefits of full torque at all speeds and standstill for precise control
- During normal operation drives running in torque control are in regen mode



SURGICAL SCREW TAKES A TURN FOR THE BETTER

- High Speed thread milling machine uses Servo drives and motors from Control Techniques for precise and rapid ramping
- New Servo system has increased speed of operation by 50% compared to competitors
- Two stages of ramping form zero to 1200rpm then up to 1750rpm in 3 seconds

If you would like to more about any application please contact geraint.evans@controltechniques.com



NEW DRIVES FOR ITALIAN THERMOFIXING MACHINES

- Italian textile machine manufacturer chooses **Unidrive SP** for new artificial turf machine with dual temperature multi-stage oven, accumulator and slitter section.
- Ideal for application with Profibus as standard, SMARTCARD for fast setting of drives parameters, on-board programming, the ability to drive different types of motor and one keypad between 12 drives, saving time and money
- **Unidrive SP** gave opportunity to use multi-axis control, with digital lock, load control and dancer control all on one machine and the 12-Mbit processor gives outstanding speed and accuracy

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EXTRUDER DRIVE RETROFIT GIVES RAPID PAYBACK AT PVC MAKER

- An urgent retrofit of a drives system, by Qrotek, saved several months downtime on key PVC extruder ,crucial to meeting production requirements.
- Drive chosen to replace the obsolete analogue German-made drive was a digital Control Techniques Mentor II DC drive with on-board processing to emulate the characteristics of the drive it replaced.
- As a bonus, the Mentor drive gives superior control and data feedback to SCADA management system.

If you would like to more about any application please contact geraint.evans@controltechniques.com



MARKHAM GETS INTO GROOVE WITH DRIVE CONTROL

- Hoist manufacturer with vertical lathe machine upgraded to achieve self financing equipment
- PLC based motion control system using two brushless servo systems from Control Techniques
- Tolerances after upgrade are now better than 0.2mm!



EXTRUDER MANUFACTURER CHOOSES MENTOR II FOR HIGH POWER DUTY

- Suppliers of machinery to the worlds rubber industry specified DC Mentor for new machines
- 1500kW Mentor II and motor used for high throughput and starting power
- FXM5 regulates constant torque alongside Mentor II

If you would like to more about any application please contact geraint.evans@controltechniques.com



SAW SYSTEM CUTS COSTS AT THREE TIMES THE SPEED

- UK based sawing machine has trebled production thanks to new Servo system from Control Techniques
- Servo closed loop system replaced an ageing previous system at the third of the cost of a new machine
- Adding to increased to increased production is reduced downtime and maintenance costs thanks to Control Techniques



SERVO LENDS A HAND TO KEEP ROBOT ARM SWINGING

- Dutch firm welding robot arm benefits from new servo linear technology between workstations
- Accurate positioning possible with 1.4kW Servo drive and corresponding Servo motor and gearbox
- Drive capable of producing 150% torque at zero speed with no slippage

If you would like to more about any application please contact geraint.evans@controltechniques.com



SPEEDY MENTOR REELS SUCCESS AT UK PAPER

- Tailor made drive system doubles production at cut and wind paper plant
- Two Reelers running at speeds of 200 m/min controlled by Mentor II DC drive to unwind and rewind whilst maintaining accurate tension for rolling and cutting
- Slitter section is controlled by nine AC drives where rotation speed is critical
- Control Techniques reliability ensures site operates 24 hours a day!



FULL BLOWN CONTROL PRODUCES MASSIVE SAVINGS

- Running cost savings of 80% for blown film line thanks to new AC drive form Control Techniques
- Vector AC drive system replaces old DC drive system by installing lighter, smaller and sealed AC motors which offer substantial savings
- Complete SCADA system for blown film line has also been installed by Control Techniques

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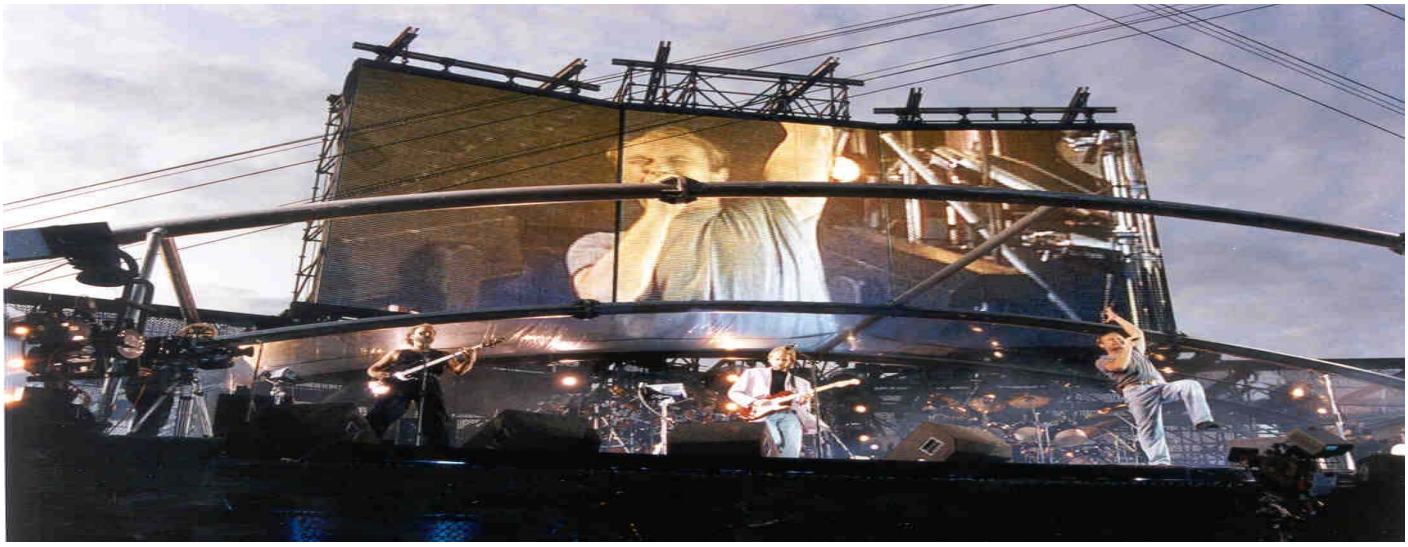

GENESIS TAKE CONTROL TECHNIQUES ON TOUR

- Rock group Genesis world tour uses Vector AC drives to control complex stage scenery at over fifty venues
- Each screen at 5.6m high and 3m wide controlled by 7.5kW Vector accurately positioned within 0.1mm whilst travelling at speeds of up to 1m/s
- Vector chosen for the capabilities of being able to provide full troque at zero speed



ENERGY CUTS BLOOM AT STEEL PLANT

- Scunthorpe Steel Plant saves 10% on energy costs thanks to drives from Control Techniques
- 25 Commander drives installed on air fans following successful trial
- Temperature controlled by 37kW drive operating with current control loop monitoring air temperature, pressure and flow
- Payback period in less than 10 months!

If you would like to more about any application please contact geraint.evans@controltechniques.com



MENTOR DRIVES STEEL RECORD RUN

- Ladle run at UK steel plant using Mentor II DC and Commander AC drives
- Steel slabs weighing 20 tonnes moved around plant at up to 2 tonnes/min
- Steel moulds controlled by 15kW Mentor II to maintain quality and precision positioning
- Total of 28 motors controlled my Mentor II on 94 stations throughout plant

MENTOR II SENDS CUSTOMERS FLYING SKY HIGH

- 360 degree fairground ride using Mentor II drives for accurate control
- Off the shelf products including 60kW motors, FXM4 and Mentor with comms
- FXM4 maintains constant speed during opertaion whilst Mentor II allows motor to freewheel
- Powered by generator drives overcome any harmonics issues



If you would like to more about any application please contact geraint.evans@controltechniques.com



MENTORS PRESS ON WITH CAN PRODUCTION

- Manufacturer of Tin Cans for customer Heinz
- Four 38kW Mentors with digital lock software
- System built and commissioned by local Drive Centre
- Drives synchronised to within -+0.35 degrees or two thousandths of a resolution

NAVY CAPERS FOR CONTROL TECHNIQUES

- London's Royal Tournament features 8 AC drives from Control Techniques
- 7.5kW drives control movement of a full scale 3-D model of a ship
- Drives chosen by customer because of quiet operation and flexibility
- Reliability was a key factor in choosing Control Techniques



If you would like to more about any application please contact geraint.evans@controltechniques.com



INTERBUS-S GIVES AUTOMATED WAREHOUSE A QUICK LIFT

- Automated warehouse in Germany, using INTERBUS-S alongside Mentor II DC drive in 45m long aisles
- 14.4kW Mentor II controls the horizontal movement of the vehicle, without jerking
- 21kW Mentor II controls drift free vertical movement
- Mentor II have onboard INTERBUS-S for data transfer between PLC and the drive

MENTOR II TURNS OUT WELL FOR MIXER MAKER

- Mentor II helps manufacturer double production!
- Plastics mixing machines controlled by DC drive
- Size and Harmonics were an issue solved by Mentor II alongside FXM4 to give constant torque
- Constant torque ensures smooth output and high quality end product



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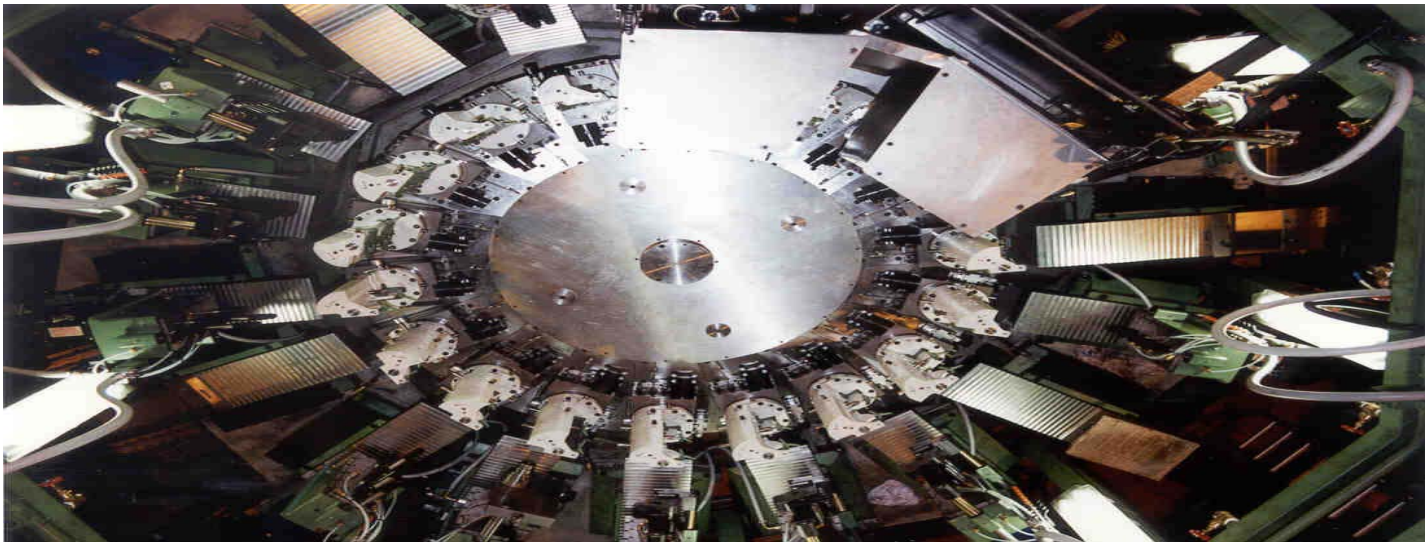
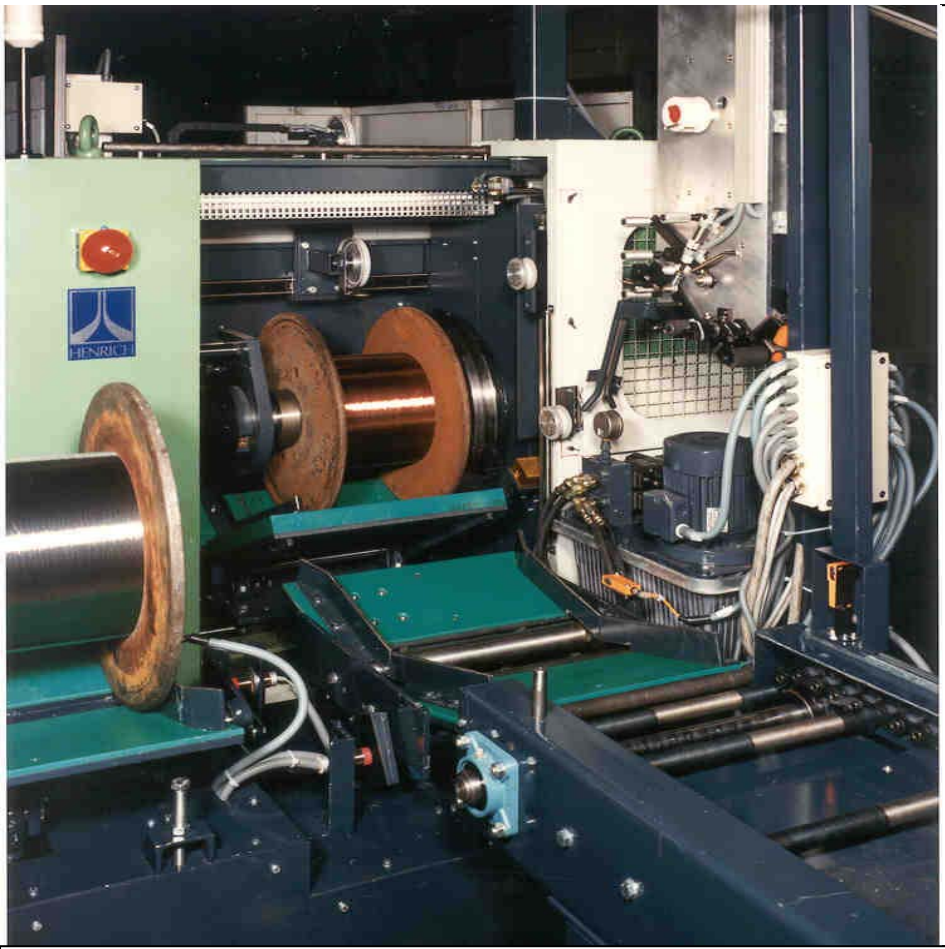


UNIQUE TOOL CENTRE TURNS AROUND MACHINE TIME

- Computer component manufacturer slashes production time from seven minutes to twenty seconds thanks to Control Techniques
- Unique 18 station rotary transfer machine features 21 AC servos from Control Techniques ranging from 2kW to 3.1Kw
- Control Techniques preferred supplier because of capabilities to offer a single source of expertise and product



MORE MOTORS DRAW BETTER WIRE

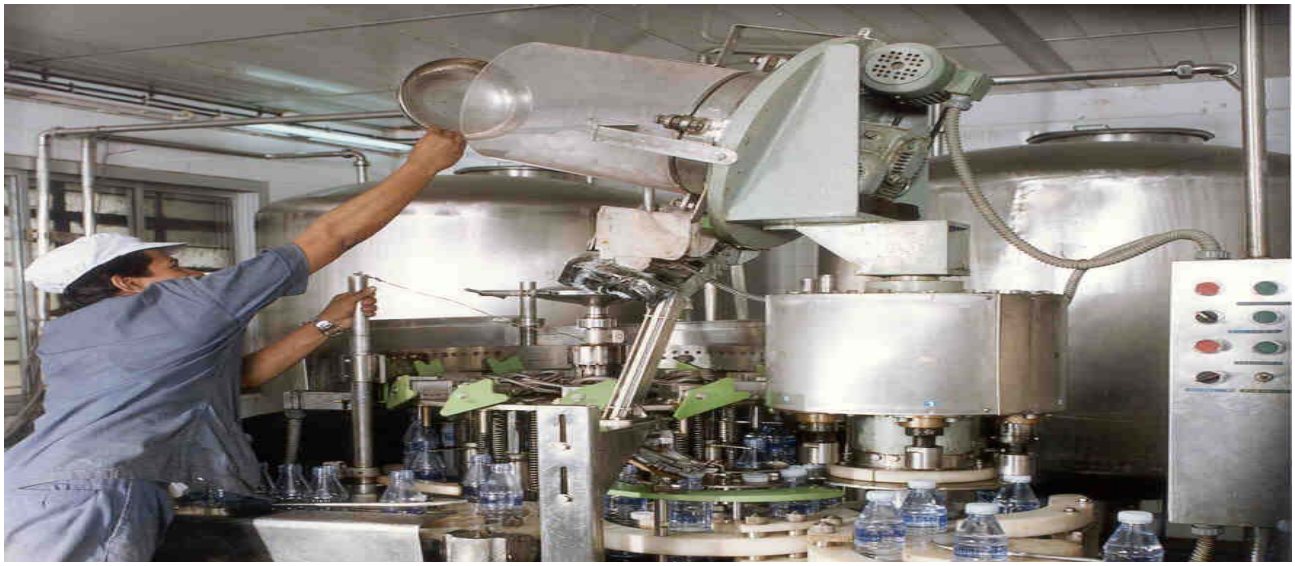
- OEM - Pioneers of high speed wire drawing machines, use AC Drives from Control Techniques
- Machines used for drawing copper, copper alloy and special materials at a high quality finish
- Vector AC drive used to control capstan motor to maintain correct wire diameter

If you would like to more about any application please contact geraint.evans@controltechniques.com



CLEVER SYSTEM DESIGN DRIVE NEW LIFE INTO BOARD MACHINE

- Control Techniques designed £8.5m drives system!
- Machine 360ft long, runs at 200m/min producing top grade carton board
- Machine uses 18 Mentor II ranging from 420A – 825A
- 4kW Vector and 75kW Commander CD fitted as standard
- System developed to provide “Iggesunds” with accurate speed/draw processing system with no need for a PLC



NEW DRIVES FOR BOTTLING PLANT IN INDIA

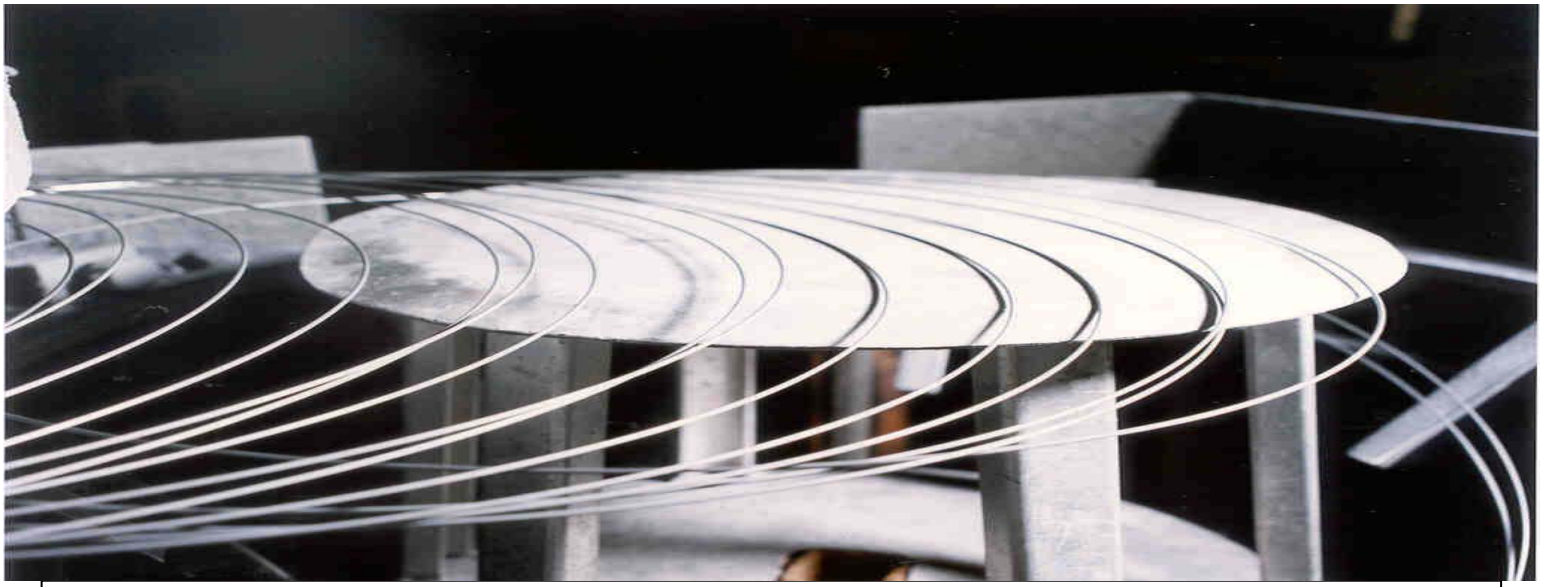
- Control Techniques drives increased productivity of bottling plant from 50 bottles p/m min to 250 bottles p/min
- Commander CD and DBU stop machine immediately in the event of line breakage
- CD offers slow start facility and eliminates mechanical variable drive belts
- New drives gave added costs savings in reduced maintenance and downtime!

If you would like to more about any application please contact geraint.evans@controltechniques.com



CONTROL TECHNIQUES DRIVES KEEP FANS COOLING AT ROD MILL

- 400m production line at Cardiff rod mill produces two steel rod strands up to 10km long.
- Total of 8 fans controlled by Commander CD drives from Control Techniques cools the steel to a pre-determined temperature.
- 75kW Commander CD drives operating in open loop mode through PLC.



MENTOR DRAWS OUT BEST FROM WIRE MACHINE

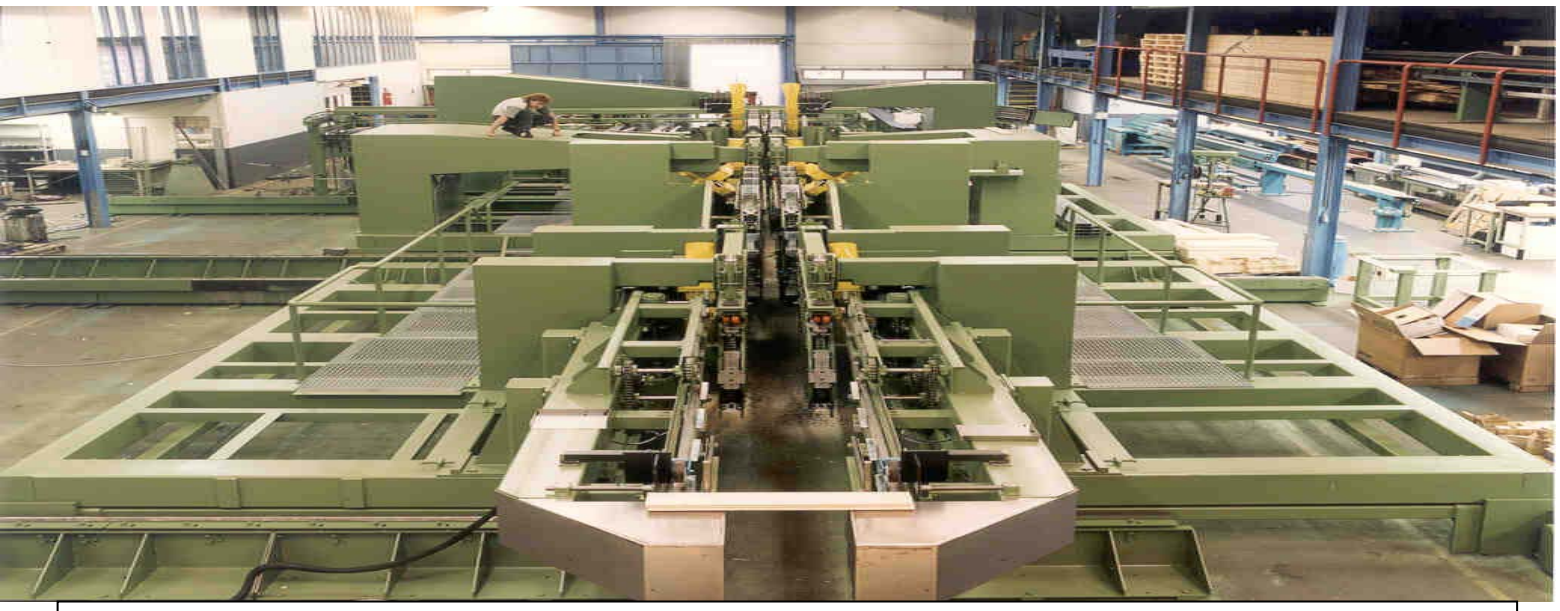
- Single 200kW Mentor DC drive controlling 9 motors on a wire drawing machine.
- Updated control system occupies less than half of the space previous required previously – a substantial cost saving!
- 9 DC motors running proportionately drive 9 drum blocks, around each of which the wire is wound.
- Alongside Mentor are 9 FXM5 field controllers run through a PLC
- Mentor gives better then 0.01% resolution – over start up and load sharing!

If you would like to more about any application please contact geraint.evans@controltechniques.com



CONTROL TECHNIQUES KEEPS SHIPPING MOVING AT BELGIUM PORTS

- Renovation projects at Antwerp and Albert Canal, two of the most important waterways in Belgium
- Application comprises a three stage sluice, one hydraulically controlled, two electrical previously run by DC slipring motors running at constant full speed.
- Control Techniques the winning contractor using Mentor II under PLC control fitted alongside Control Techniques filters which eliminated noise inteference.



BIG BERTHA PERFECTLY SYNCHRONISED THANKS TO CONTROL TECHNIQUES

- One of Europe's biggest wood working machines features drives from Control Techniques.
- CT Holland won the contract for the precision and reliability of Control Techniques CD400
- Double CNC – controlled machine used to produce machined sections of wood for DIY kit of various garden equipment
- Total Power 160kW and capable of machining 45,000m3/hr!
- Easy and quick machine set up in less than 30 seconds!

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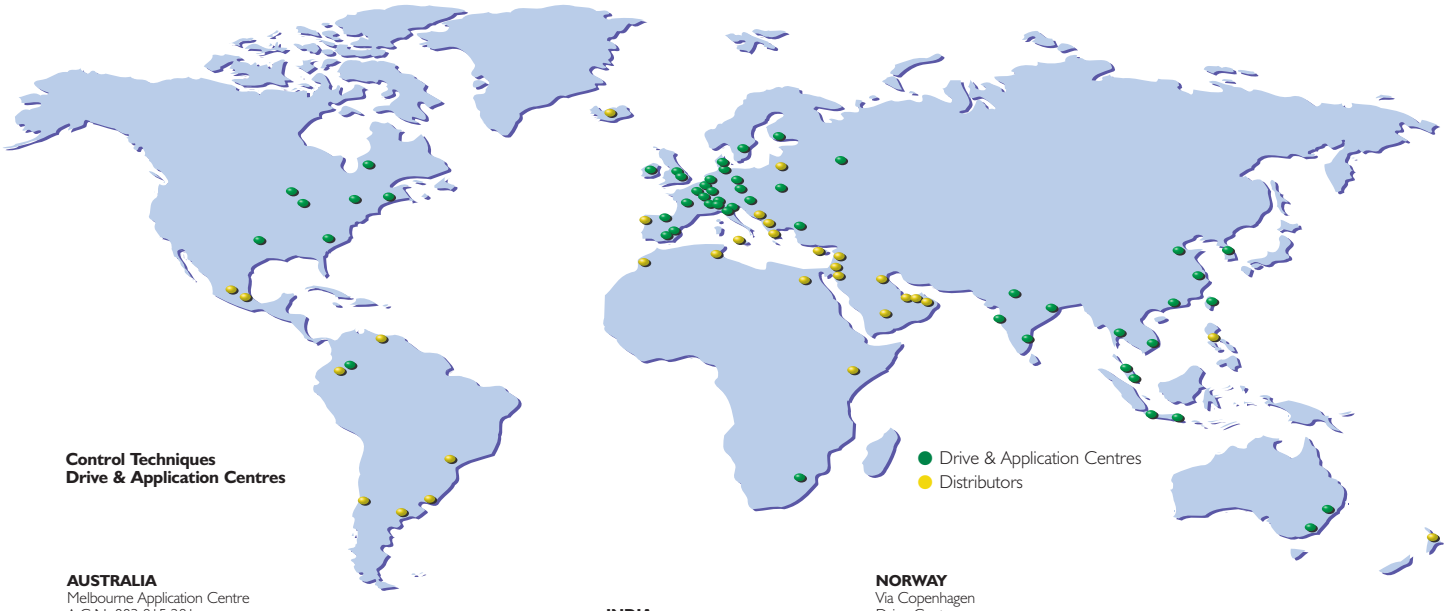
Driving the world...



Control Techniques
Drive & Application Centres

AUSTRALIA
Melbourne Application Centre
A.C.N. 003 815 281
Tel: 61 973 81777
Fax: 61 9729 3200
After Hours: 61 2 9963 5271

Sydney Drive Centre
A.C.N. 003 815 281
Tel: 61 2 9838 7222
Fax: 61 2 9838 7764
After Hours: 61 2 9963 5271

AUSTRIA
Linz Drive Centre
Tel: 43 7229 789480
Fax: 43 7229 7894810
After Hours: 43 7215 3502

BELGIUM
Brussels Drive Centre
Tel: 32 2725 2721
Fax: 32 2725 4940

CANADA
Toronto Drive Centre
Tel: 1 905 201 4699
Fax: 1 905 201 4694

CHINA
Shanghai Drive Centre
Tel: 86 21 5426 0668
Fax: 86 21 5426 0669

Beijing Application Centre
Tel: 86 10 856 31122 ext 820
Fax: 86 10 856 35029

CZECH REPUBLIC
Brno Drive Centre
Tel: 420 541 192111
Fax: 420 541 192115
After Hours: 420 541 192 119

DENMARK
Copenhagen Drive Centre
Tel: 45 4369 6100
Fax: 45 4369 6101
After Hours: 45 4369 6100

FINLAND
Helsinki Drive Centre
Tel: 358 985 2661
Fax: 358 985 26823
After Hours: 358 500 423271

FRANCE
Leroy Somer
Angouleme Drive Centre
Tel: 33 5 4564 5454
Fax: 33 5 4564 5400

GERMANY
Bonn Drive Centre
Tel: 49 2242 8770
Fax: 49 2242 877277
After Hours: 49 1714 964777

Chemnitz Drive Centre
Tel: 49 3722 52030
Fax: 49 3722 520330
After Hours: 49 1714 964777

Darmstadt Drive Centre
Tel: 49 6251 17700
Fax: 49 6251 177098
After Hours: 49 1714 964777

Stuttgart Drive Centre
Tel: 49 7156 95560
Fax: 49 7156 955698
After Hours: 49 1714 964777

HOLLAND
Rotterdam Drive Centre
Tel: 31 1844 20555
Fax: 31 1844 20721
After Hours: 31 1844 20555

HONG KONG
Hong Kong Application Centre
Tel: 852 2979 5271
Fax: 852 2979 5220

HUNGARY
Budapest Drive Centre
Tel: 361 431 1160
Fax: 361 260 5483
After Hours: 36 309 77 2663

INDIA
Mumbai Application Centre
Tel: 91 20 613 1954
Fax: 91 20 612 3771

Kolkata Application Centre
Tel: 91 33 357 5302/357 5306
Fax: 91 33 357 3435
After Hours: 91 33 358 3622

Chennai Drive Centre
Tel: 91 44 4961123/4961130/4961083
Fax: 91 44 4961602
After Hours: 91 44 496 1083

New Delhi Application Centre
Tel: 91 11 2576 4782
Fax: 91 11 515 39216

INDONESIA
Jakarta Drive Centre
Tel: 62 21 4525146
Fax: 62 21 4525142
After Hours: 62 81 687 0443

Surabaya Application Centre
Tel: 62 31 7347881/7347882
Fax: 62 31 7347883
After Hours: 62 81 687 0443

IRELAND
Dublin Drive Centre
Tel: 353 45 448200
Fax: 353 45 433622

ITALY
Milan Drive Centre
Tel: 39 02575 751
Fax: 39 02575 12858
After Hours: 39 02575 751

Vicenza Drive Centre
Tel: 39 0444 396200
Fax: 39 0444 341317

KOREA
Seoul Application Centre
Tel: 82 31 703 7169
Fax: 82 31 703 7168
After Hours: 82 2 557 7374

MALAYSIA
Kuala Lumpur Drive Centre
Tel: 60 5634 9776
Fax: 60 5633 9592
After Hours: 60 12 333 8355

NORWAY
Via Copenhagen
Drive Centre
Tel: 45 4369 6100
Fax: 45 4369 6101
After Hours: 45 43 69 6100

REPUBLIC OF SOUTH AFRICA
Johannesburg Drive Centre
Tel: 27 11 462 1740
Fax: 27 11 462 1941
After Hours: 27 11 462 1740

RUSSIA
Moscow Application Centre
Tel: 7 095 232 9472
Fax: 7 095 956 4862

SINGAPORE
Singapore Drive Centre
Tel: 65 6468 8979
Fax: 65 6468 6982

SPAIN
Barcelona Drive Centre
Tel: 34 93 680 1661
Fax: 34 93 680 0903
/34 93 680 2823
After Hours: 34 610 554540

Bilbao Application Centre
Tel: 34 94 620 3646
Fax: 34 94 681 1406

Valencia Drive Centre
Tel: 34 96 154 2900
Fax: 34 96 153 2906

SWEDEN
Stockholm Application Centre
Tel: 46 8 554 24100
Fax: 46 8 554 24110

SWITZERLAND
Lausanne Application Centre
Tel: 41 21 637 7070
Fax: 41 21 637 7071

Zurich Drive Centre
Tel: 41 56 201 4242
Fax: 41 56 201 4243
After Hours: 41 79 357 8683

TAIWAN
Taipei Application Centre
Tel: 886 22325 9555
Fax: 886 22705 9131

THAILAND
Bangkok Drive Centre
Tel: 66 2580 7644
Fax: 66 2591 4559
A/Hours Sales: 66 1443 4095
A/Hours Service: 66 1443 4098

TURKEY
Istanbul Drive Centre
Tel: 90 216 4182420
Fax: 90 216 4182423
After Hours: 90 216 418 2420

UNITED KINGDOM
Telford Drive Centre
Tel: 44 1952 213700
Fax: 44 1952 213701
After Hours: 44 1952 213700

USA
Charlotte Application Centre
Tel: 1 704 393 3366
Fax: 1 704 393 0900
After Hours: 1 800 893 2321

Chicago Application Centre
Tel: 1 630 752 9090
Fax: 1 630 752 9555
After Hours: 1 800 893 2321

Cleveland Drive Centre
Tel: 1 440 717 0123
Fax: 1 440 717 0133
After Hours: 1 800 893 2321

Minneapolis US Headquarters
Tel: 1 952 995 8000
Fax: 1 952 995 8020
After Hours: 1 800 893 2321

Providence Drive Centre
Tel: 1 401 541 7277
Fax: 1 401 541 7266
After Hours: 1 800 893 2321

VIETNAM
Ho Chi Minh Application Centre
Tel: 84 8 842 5157
/84 8 849 1980
Fax: 84 8 8425157

CONTROL TECHNIQUES
www.controltechniques.com

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Part No. 0175- 0305 02/03