



Pneutrol International Limited



driving cost and waste out of **CONCRETE** production

**DYNAMIX**®  
Automatic Batching Systems



## Industrial Technology Leader

We are one of the leading manufacturers of Automatic Concrete Batching Control Systems in the UK and Ireland. With over 1000 installations worldwide we have earned a reputation for high quality systems, service and support.

We design and manufacture a wide range of control systems for many industrial applications including:

- Readymix batching systems
- Block plants
- Roof tiles
- Paving plants
- Pre-stressed applications
- Precast batching systems
- Block machine control

Our large range of control solutions have been developed after many years of intensive research and development. Over the last 30 years we have worked closely with our customers to understand their needs and develop solutions to surpass their expectations. This has culminated in some of the most user friendly, reliable and functional control systems in the world.

Whether we are working with a large multinational corporation or a small family owned business, our ethos is the same. From enquiry to installation we will ensure that your order is dealt with in a friendly, informative manner. We can provide a complete turnkey installation for your electrical systems, weigh systems, water systems, moisture control, automation systems and colour systems.



If you prefer to use your own or local engineers we are more than happy to communicate best design practice or provide supervisory control to guide and assist where necessary.

# DYNAMIX<sup>®</sup>

## Up to 10 Users Simultaneously & Independently Connected



- Managers connecting in to view plant performance and efficiency
- Technical Engineers connecting in to view faults and downtime
- Lab Technicians connecting in to modify recipes
- Accounts personnel connecting in to view production or print reports
- Procurement staff connecting in to view stock and reorder materials
- Other plant operators connecting in to batch remotely if a local operator is sick or unavailable

All of these people can be connected at the same time with full access or user configured access to limit what they can do or see.

## Wide range of control options

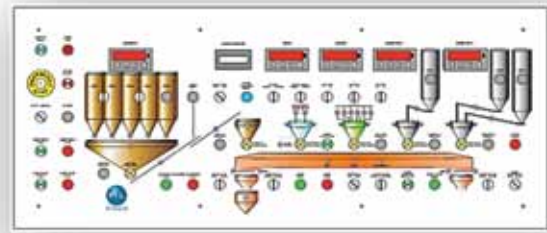
We offer a full range of control solutions to meet your requirements:



Industrial PC with mouse & keyboard control



Industrial Touch Screen Terminals



Push button control panels

## Comprehensive Control...

- Animated Plant Mimic, offering full manual and automatic control via touchscreen, keyboard or mouse.
- Complete operational log, providing a comprehensive history of batching, production, system alterations and interventions.
- Full database synchronisation, ensures downtime is kept to a minimum. The batching PC constantly archives data to a slave PC, so that if the master PC should fail, the slave PC can seamlessly continue the batching process.
- Automatic backup facility to external media or network location.
- Accounts module to seamlessly connect third party accounts systems, minimising unnecessary operational input and potential error.
- Export facility allowing reports to be saved in NOTEPAD, XML, PDF and EXCEL formats.
- Maintenance manager to automatically log the operating hours of machinery and alert users when maintenance is required.
- Sophisticated moisture control module provides multi-point calibration for all recipes.



# Wireless Innovation



Dynamix utilises the latest Batching Control Topology to provide users with the flexibility of the wireless world. With our optimised communication protocol we can offer users the ability to control or view the batching control process wirelessly throughout the plant.

## Block Machine Loader & Loading Shovel



Is your Shovel Driver or Block Machine operator constantly getting in and out of the cab to look at the infeed control or batching system. With Mobile Dynamix you can have full control of the system from anywhere in the batching yard.

The Loading Shovel Driver can manually / automatically select which bin to fill or view plant alarms and the Block Machine Loader can adjust the water, change the batching recipe and accept plant alarms all from the comfort of the cab using Mobile Dynamix.

## Function Aesthetics

The Dynamix Graphics engine allows users the ability to configure multiple screens to show vital information in a clear and concise format. The user can seamlessly move the mouse across multiple screens to select and enter data whilst keeping an eye on the time critical loading process.





Aqua-Trak is an on-board water dispenser for concrete mixing trucks. Aqua-Trak automatically logs/time stamps any truck water added to the mixer barrel and transfers this information wirelessly to a 'Cloud' based archive, providing company personnel with a secure log of all site water additions. The system is protected by a 24VDC Voltage Stabiliser to ensure the highest levels of stability in the harshest of environments.

The system is easy to install and can be retrofitted to most concrete mixer trucks. PIL offer a full installation and QSRMC approved calibration service. The system can also be supplied in kit format to be installed independently.



## Safesilo

Safesilo is a fully integrated silo protection system designed to prevent the problems caused by the overfilling or over-pressurisation of bulk storage silos.

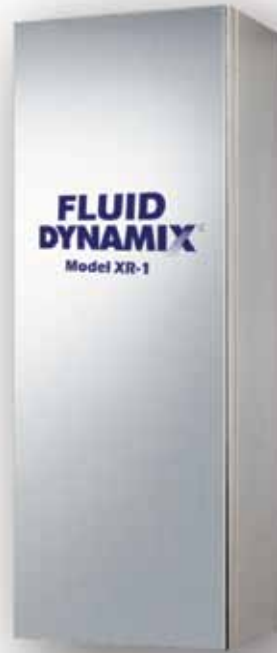
Pneutrol International Limited identified the key areas of silo filling which were important to the majority of customers and incorporated these into a modular; one size fits all system, which can be easily retrofitted to any type of bulk storage silo.

The Safesilo concept is a failsafe system with audible and visual alarm indication. The intuitive system self-checks the status of the safety components prior to allowing the fill sequence to commence.

# FLUID DYNAMIX®

## High Accuracy Stainless Steel Admixture Weighing Systems

- Single or dual vessel options available
- High accuracy single point loadcell
- Single vessel capable of weighing 4 different admixtures
- Dual vessel system capable of weighing 6 different admixtures (3 per vessel)
- 360 degree hemispherical washout facility with adjustable flow control
- Easily retrofitted to existing applications
- Vessels and enclosure constructed from 402 stainless steel for optimal corrosion resistance
- Robust fully welded and galvanised frame



## Dynamix Discharge

- Industrial pinch valve with natural rubber sleeve to ensure a secure seal when closed
- High accuracy pressure switch factory set to provide valve closed signal
- Mixer Pressure Preventer (M.P.P.) - we can supply the M.P.P. for systems which are discharging into a poorly vented mixer to ensure the high accuracy weigh system is unaffected by mixer pressurization
- VSD control for high accuracy applications - we can supply a small control panel providing independent speed control for up to 6 pumps
- Electrical drawing based on IEC60204 standard
- Full itemised parts list
- Calibration certificate compliant with QSRMC / ISO requirements



## Options

- Independant cylinder discharge
- Mixer pressure preventer
- VSD control box
- Anti-frost heater and thermostat
- Geared pumps



# DYNAMIX<sup>®</sup>

Automatic Batching Systems



Pneutrol International Limited (PIL) was established in 1976 and employ over 30 staff. Our Head Office is in Antrim, N. Ireland and our UK Office is in Birmingham. PIL have been accredited with ISO 9001 Quality Certification since 1991. PIL are a Carbon 'Pneutrol' Company with all systems and machinery at our Head Office powered by our on-site Wind Turbine.



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