



# Subklew SM24 Mosaic

An L.B. Foster Control & Display System

**LB Foster**<sup>®</sup>

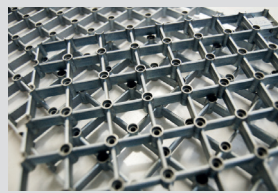
# Subklew SM24 Mosaic Mimic System

The Subklew SM24 is widely acknowledged as the world's leading Mosaic Mimic System.

The mosaic mimic system still provides the most cost effective solution for many 24/7/365 process control and visualization applications. Mosaic is well proven, providing a secure and robust engineered solution, giving total confidence to plant and control room operators. With minimal routine maintenance required, lifetime ownership costs are kept to a minimum.

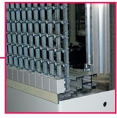
"We understand all the component parts so you don't have to. From the narrowest brief, L.B. Foster Control & Display will deliver a complete mimic system. We can also offer a complete service including a control panel solution. Our engineers will guide you through the whole journey from enquiry through to handover."

Our clients benefit from a programme of lifetime support that ensures their installation can be modified, extended or upgraded in line with their changing operational needs.

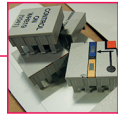


"The Subklew Mosaic Mimic System from L.B. Foster is still the best available and has maintained its engineering integrity in precision and quality since the day it was launched."

# The System - A Tour



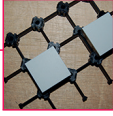
**Framework**  
A strong aluminium extrusion provides an interface between the mosaic and the supporting steel work.



**Mosaic Tiles**  
Tiles are made from colour stable, flame retardant, Makrolon® 6560.



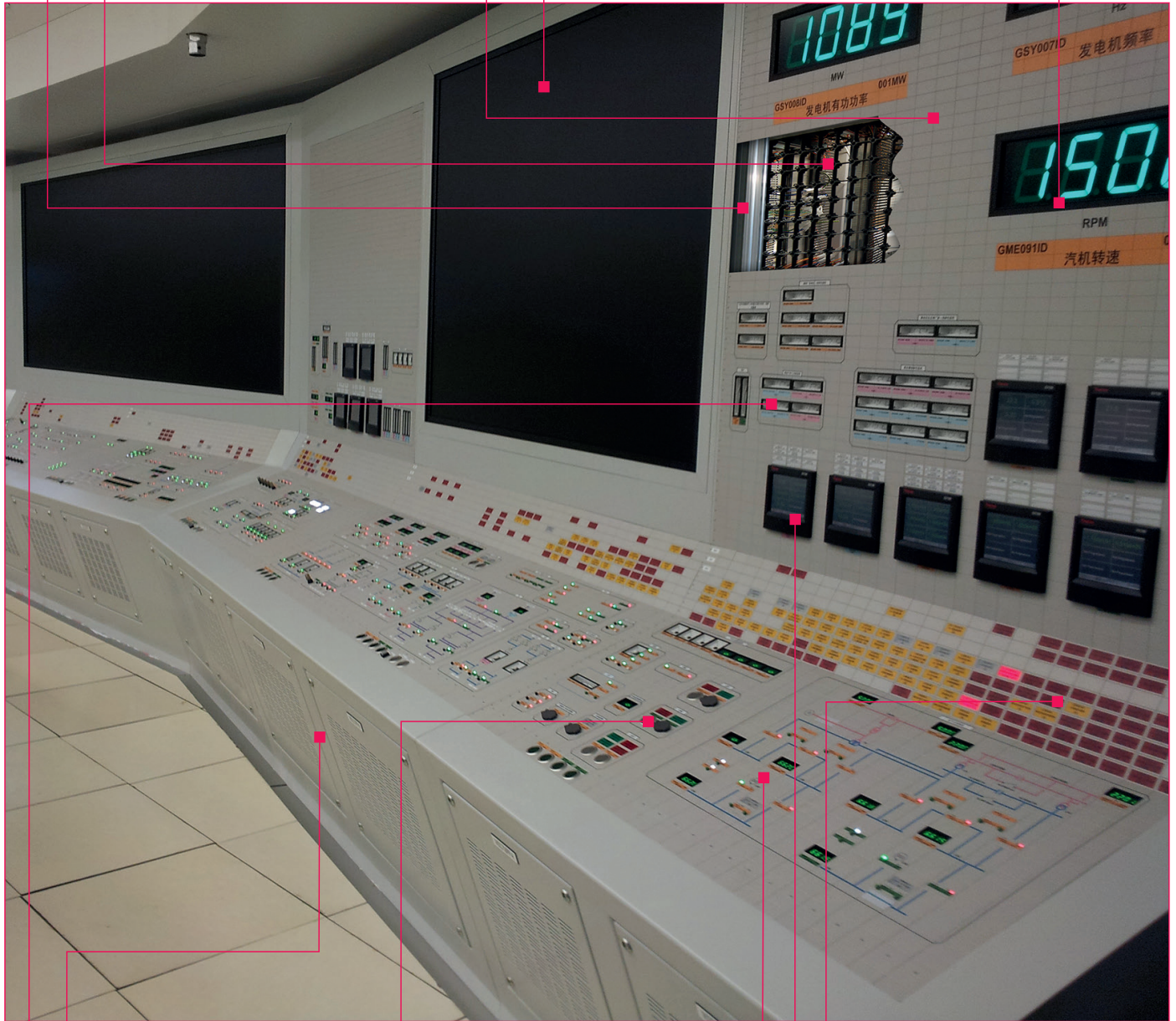
**Digital Panel Meters**  
These can be provided in a variety of sizes and configurations to suit your project.



**Grid**  
The Grid is made from precision cast electro galvanised zinc.



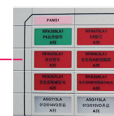
**Display Screens**  
SCADA Display Screens can be incorporated to compliment the process diagram.



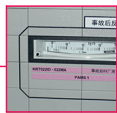
**Panel Fabrication**  
Full design and build to meet your needs.



**Control Devices**  
Push buttons, key switches, selector switches.



**Annunciators Windows**  
Flush mounted and rear lit by LEDs, providing status and alarm indication of critical systems.



**Moving Coil Meters**  
Can be provided in a variety of sizes and configurations to suit your project.



**Graphic Capability**  
Engrave and fill or direct digital print.



**Chart Recorders**  
Chart recorders can be fitted into the mosaic to compliment the process diagram.

# The System

The advantage of the mosaic system is its ability to be changed with minimum disruption to normal operations in the control room. Virtually any device may be incorporated into the grid/tile system to provide an unambiguous representation of the clients plant process.

Our engineers can take your single line diagrams and design brief to create CAD drawings, providing an accurate representation of the final product. For peace of mind, all manufacturing drawings would be submitted for approval purposes.

## FRAME

There is a range of aluminium profiles to suit every fitting application. The most suitable bezel will be selected to consolidate the mosaic system into the supporting panel metalwork.

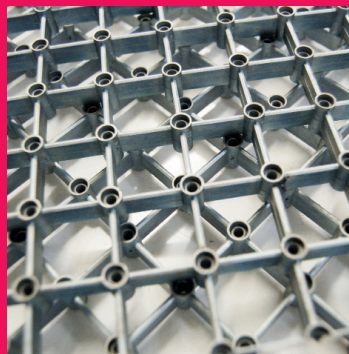


## GRID

The supporting mosaic grids are made from electro galvanised, die cast, zinc aluminium alloy. The grids are precision cast to provide support of the mosaic tiles and their components. Mosaic grids are assembled to form the mimic structure and are consolidated via a perimeter extruded aluminium bezel. High accuracy die cast grids characterise the Subklew system as being the market leader.

## TILES

From 40/48mm square or larger for the rail industry, to 24mm square for process control we can provide the best mosaic system for your application. Made from Makrolon 6560 with a UL94 Fire rating of V-0. Tiles are available in the standard Subklew range, similar to RAL colours.



## CONTROL PANEL

Mosaic Mimic systems are normally housed in a control panel or desk. We can provide the whole control panel unit including wiring and commissioning.

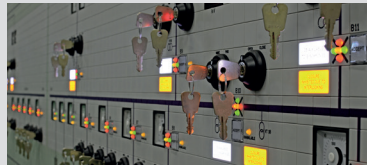
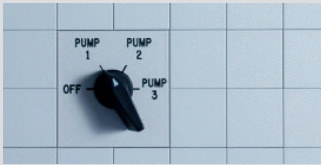
Panels are normally fabricated in mild steel, painted and then fitted out. All are made to CAD designs with CNC and Laser machinery operating in the production areas from Lantek nesting software.



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# Control Devices

There is a vast array of switches, push buttons and key switches that can be fitted into the mosaic system. This gives an unrivalled choice and flexibility in control devices. Our engineers will select components to perform the functionality the clients' systems require.



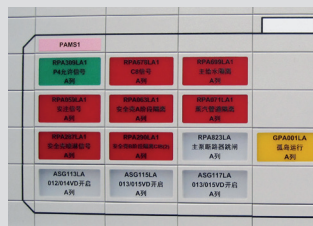
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# Annunciators

In industrial process control, an annunciator panel is a system to alert operators of alarm conditions in the plant. In the Subklew SM24 Mosaic System, Multiple back-lit windows are provided, each engraved or printed with the name of a process alarm or action.

Produced as a highly accurate inset and flush mounted acrylic window, the annunciator window is back lit with longlife LEDs.





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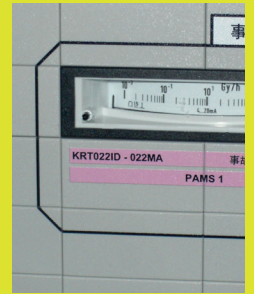
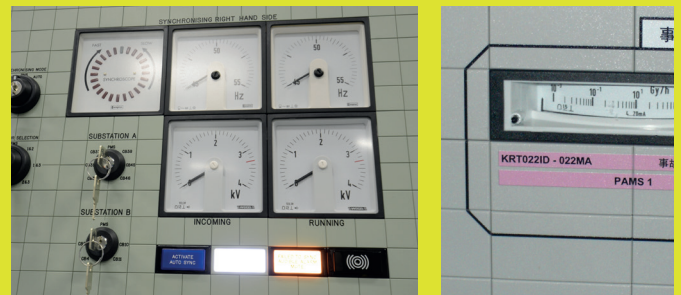
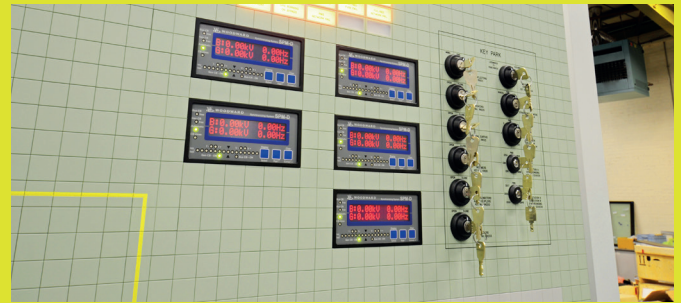
AE

AH

# Instrumentation

We have established long standing and ongoing relationships with a number of instrument suppliers.

All instruments are compatible with the Subklew SM24 Mosaic Mimic System. We can supply and fit chart recorders, moving coil meters, VDU display screens and digital panel meters.



## FAQ's

### Why Mosaic?

A key benefit of the system is the ease of future modification. Devices may be added or removed to the demands of the user, with the mosaic always maintaining a high quality appearance.

### Do I need to know all the components?

No, you don't. But because there are such a large number of devices available, you can rely on our engineers to select the most suitable devices that meet your operational requirements. Through this consultation, you will be assured that you will receive the functionality you need.

### Can you provide me with a complete system?

Yes, our engineers will discuss your requirements with you to ensure we provide you with a complete mosaic system. This may include a bespoke control panel, desk panel or off-the-shelf cabinet. We take a flexible approach and will always do our best to accommodate your needs and meet your expectations.

### What's the Mimic System made from?

The core grid system, comprises the assembly of precision die-cast alloy grids within an aluminium extruded bezel section which provides great strength and enables easy mounting within panel apertures. The tiles are manufactured from Makrolon polycarbonate, moulded and fully dyed to provide a tile which:


- > has a non-reflective surface
- > is non-toxic
- > is non-flammable/self-extinguishing
- > is halogen free
- > is anti-static

### How do you produce the graphic?

The graphic features are produced by a number of digital print, engrave, mask & spray techniques. We use the best technologies to provide a colour rich & superb finish.

### Can you produce the graphic for all languages?

New direct digital print application allows for all language, graphic and logo types. This flexibility is unique to us.



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