

**BODE**  
www.bode.co.uk

# TURNING THE PLACE OVER

The most daring piece of public art ever commissioned in the UK, Turning the Place Over is artist Richard Wilson's most radical intervention into architecture to date, turning a building in Liverpool's city centre literally inside out. One of Wilson's very rare temporary works, Turning the Place Over colonises Cross Keys House, Moorfields.

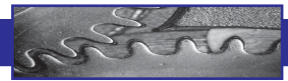
**A**WD members, Bode Positioners Ltd of Preston, Lancashire were approached by the sculptor asking for assistance in making this exciting concept into a reality.

The piece of art consists of an 8 metre diameter Ovoid cut from the façade of a building (formally Yates Wine Lodge) in Liverpool city centre, and made to oscillate in three dimensions. The huge ovoid, complete with windows, block work and interior details, continually rotates and acts as a huge opening and closing 'window', offering recurrent glimpses of the interior during its constant cycle during daylight hours.

Bode supplied a motorised Headstock and a rotating Idler section from their range of positioning equipment to rotate the fabricated ovoid, weighing 5 tonnes when clad with the existing stone work and windows. The ovoid was fastened to a 610mm dia, 10.5 metre long shaft which in turn was connected to the motorized headstock arrangement consisting of two synchronised motors, driving a toothed slewing ring. The idler sections, rated at 50 tonnes capacity, supported the shaft and prevented excessive deflection of the ovoid. Due to the load and the deflection allowable the idler sections had to be of robust manufacture and include correct bearings to support the out of balance load.

The headstock, idler sections, shaft and ovoid were all craned into place and anchored to the floor when finally positioned within the building. The Headstock was motorized by two SEW motors and two SEW inverters giving excellent positioning control. Bode have been fitting this technology for the past six years to their portfolio of machinery from welding rotators, positioners and automatic welding machinery.





**"Bode supplied a motorised Headstock and a rotating Idler section from their range of positioning equipment to rotate the fabricated ovoid, weighing 5 tonnes when clad with the existing stone work and windows."**

The impressive rotating machinery also boasted high tech equipment such as an anemometer for wind speed/direction monitoring, and a light measuring cell to automatically switch off/on the machine in high winds or in darkness. Finally a modem was installed to the electrical system so an SMS message could be sent should any power failure occur and the whole system could be re booted from the offices in Preston.

Alan Thornton – Bode Positioners, Director said "I was resolute in making this sculpture happen as Richard Wilson's team had spent many months in coming up with the concept. We enlisted a local company to us in Lancaster, Askam Construction, to do all the civil work, plus our Strategic Partner, Lindhurst Engineering of Nottingham, whom we have worked with for many years to manufacture all the steel work and install the final machine.

What we have achieved is an astonishing feat of engineering which many said could not be done. It is a central part of the Biennial celebrations and stuns passers by."

The sculpture transforms one of Liverpool city center's major 'grot spots' into a cultural asset, dramatically emblematic of the transformation of the city as a whole.

[www.bode.co.uk](http://www.bode.co.uk)

**F. BODE & SONS LTD**

For over 50 years the name Bode has been synonymous in the design and manufacturing of rotating and positioning equipment for the welding industry.

We are proud to be supplying machinery that supports upto 1200 tonnes, automating the welding process for many of the worlds leading fabricators and ensuring that Bode Positioners are of the highest quality in design and engineering.

Bode supplies many "blue chip" manufacturers from around the world and our products can be found in all continents. Our customer base ranges from general fabricators to ship yards, nuclear power plant manufacturers, aerospace and petro-chemical.

The popularity of alternative power sources have also meant we have supplied many Windmill manufacturers with welding positioning equipment to enhance productivity and safety in this ever increasing market sector.

Bode Positioners have an extensive hire fleet of standard machines and also offers comprehensive plant and service facilities. You can also choose from vast range of pre used equipment.

The dedication of management and staff means that Bode will be able to meet the challenges of the future and it will continue to seek fresh opportunities to keep us one step ahead of the competition.

**IT'S ALL IN THE POSITIONING**

> SEAM WELDERS

> COLUMN & BOOMS

> LATHE TYPES



> TURNTABLES

> ROTATORS

> POSITIONERS

Unit 1, Stubbins Lane  
Cloughton On Brock  
Preston  
England  
PR3 0QH

T : +44 01995 643210  
F : +44 01995 643211  
E : sales@bode.co.uk

**BODE**  
[www.bode.co.uk](http://www.bode.co.uk)