

Case Studies

















ARCHES OF OMAN -



Project: Arches of Oman Sculpture

Artist: Giles Rayner of GR Sculpture Ltd

Location: Muscat, Oman - UAE

m-tec has manufactured a stunning 12 metre high sculptural water feature which now stands proud in the private gardens adjacent to the Royal Opera House in Muscat, Oman.

The Arches of Oman took three and a half years to complete, from the initial concept to the on-site installation of the final piece.

The shape of the sculpture is highly complex and features graceful curves to represent the iconic Islamic arch symbol. The two entwined polished stainless steel tusks flow sinuously around one another, containing dozens of high pressure water jets which have been built into the piece and erupt from the inner surfaces to create an eye-catching water feature.

Designed by artist Giles Rayner of GR Sculpture Ltd, the Duplex water feature has been fully fabricated and polished by m-tec's team of skilled engineers at the company's UK headquarters.

The process was a collaboration of in-depth design meetings and consultations with Commission Director, Julian Glyn-Owen, who was pivotal in ensuring the project met GR Sculpture's expectations of high quality standards and stringent deadlines.

From the initial concept stage to shipping and on-site assembly, the whole project has involved a multifunctional team of skilled design engineers, structural engineers, steel fabricators and hydro specialists to ensure the sculpture has been manufactured to the UK's highest standards.



MEADS REACH BRIDGE



Project: Meads Reach Bridge

Architect: Niall McLaughlin

Location: Temple QUAY II, Bristol

The Meads Reach Bridge was a joint project between Niall McLaughlin Architects, Cyril Swett, Gleeds, Price & Myers, Dean & Dyball and m-tec for Castlemore Securities to renovate Temple QUAY II in Bristol.

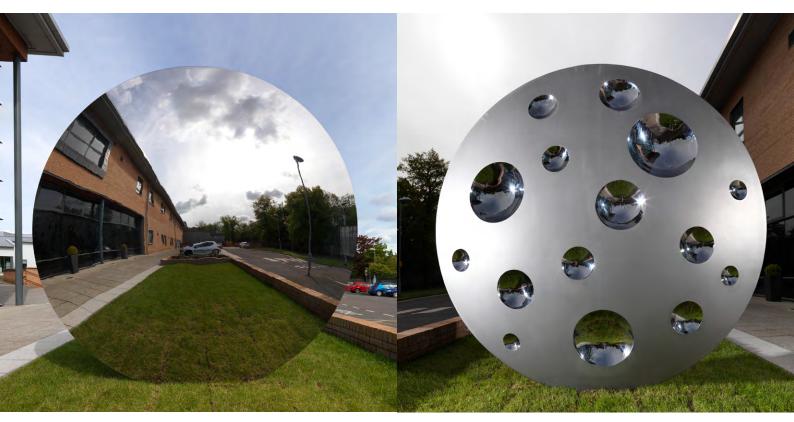
m-tec fabricated the 55 metre, 75 tonne stainless steel pedestrian walkway in-house from 2205 duplex stainless steel. Its construction was made from eight sections which were delivered individually to the Bristol location. This was then reassembled and fully welded together to make one complete structure.

The arc of the bridge picks up light from the sky and water, changing with the weather and the time of day. The interior of the bridge also holds LED lights which make the whole structure glow at night, revealing the hidden ribs of the internal skeleton.

The final polishing was undertaken in-house and the completed pedestrian walkway was craned into place in one piece, making the Meads Reach Bridge of m-tec's most prestigious projects to date.



SUN MOON & TWO HEARTS



Project: Sun Moon & Two Hearts

Artist: Jephson Robb

Location: Glasgow

m-tec were chosen by public artist Jephson Robb to manufacture two eye-catching sculptures which have now taken pride of place outside Gartnavel Royal Hospital in Glasgow. The monuments reflect the experiences and stories of those using the hospital's mental health services.

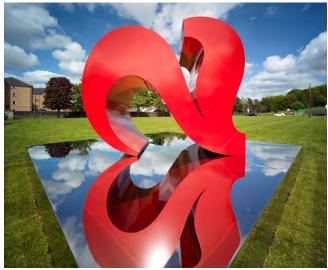
The Sun-Moon sculpture is made up of a two and a half metre convex diameter circle with two different sides to represent the contrast between the Sun and the Moon. It draws its inspiration from the hospital motto 'Let there be Light Again'.

One blasted stainless steel side features highly polished dished sections to reflect the shape of the Moon, and the opposite side is made of a highly reflective, polished mirror to represent the Sun.

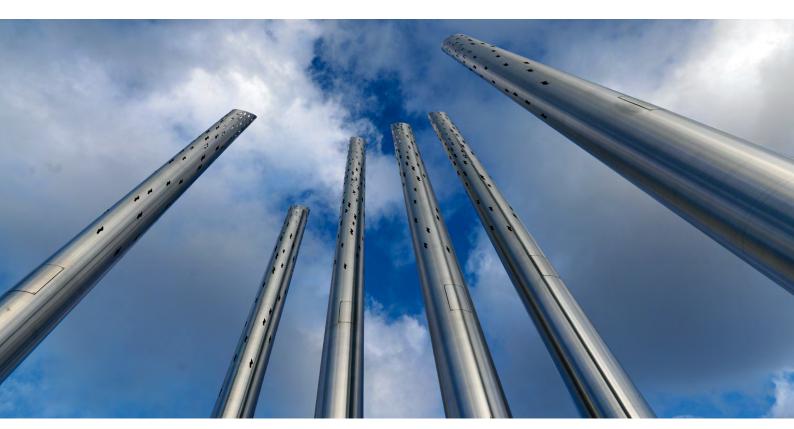
The Two Hearts sculpture, which is made from 316 grade stainless steel and was powder coated in-house sits on a four metre mirror-polished reflective platform to support it.

These sculptures will serve as a legacy to the past 200 years of the hospital, and point forward to 21st century mental health care and the role which the arts has to play in supporting and promoting the recovery of those living with ill mental health.





THE ABERTILLERY GATEWAY



Project: The Abertillery Gateway

Artist: Blaenau Gwent County Borough

Location: Abertillery, South East Wales

m-tec manufactured the six super satin finished stainless steel spires as part of the Abertillery Gateway Feature to represent the historic locations of former colliery sites from the surrounding area.

Working alongside Dawnus Construction who prepared the foundations for the project, we fabricated the six 8mm thick spires in two sections which were then welded together to create heights ranging from fourteen to seventeen metres.

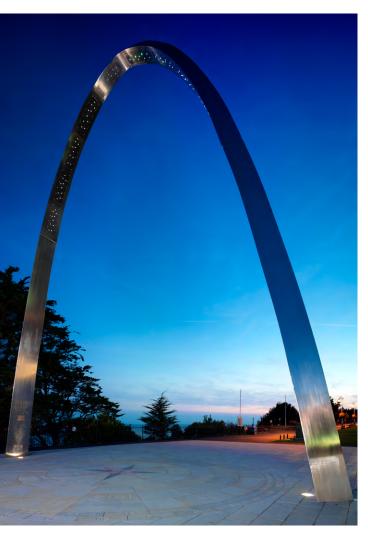
The spires, which are made from grade 316 stainless steel with a diameter of 450mm are also fully fitted with IP 67 LED colour changing luminaires – supplied by Anolis Lighting – to create the stunning effect which penetrates through the cut outs and adds to the ambience of the project.

Each spire also has a stainless steel base plate which has been engraved with the name of the colliery it is representing.

As part of a competition, local schools were given the opportunity to produce sketches, poems or short stories to represent past and present memories. The winning designs were then engraved onto sixteen stainless steel plaques on the stone retaining wall.



FOLKESTONE WAR MEMORIAL ARCH



Project: Folkestone War Memorial Arch

Architect: Foster Gearing
Location: Folkestone, Kent

m-tec were commissioned by educational charity Step Short to manufacture the iconic stainless steel arch and bespoke seating that was unveiled by Prince Harry.

Designed by specialist architectural company Foster Gearing, the memorial arch overlooks the harbour where ships waited to take millions of soldiers to France during the course of the war. This project marks the centenary of the outbreak of World War 1.

The associated seating made from marine grade 316 stainless steel and Iroko slats were designed and manufactured by sister company, Goose Foot Street Furniture to fit seamlessly into the recesses. They create a timeless feature within the town centre and blend into the surrounding area perfectly.

Thousands of people turned out for the ceremony to commemorate the millions of men and women who travelled to and from the Western Front during the 1914-18 conflict, and the project was delivered to international property company Lend Lease ahead of schedule.

Together, the projects create a timeless feature integrated to complete the renovation of the Road of Remembrance.

IRVINE TRINITY MIRROR

Project: Irvine Trinity Mirror
Architect: Peter McCaughey
Location: Irvine Town Centre

m-tec were selected to manufacture the nine metre, mirror polished sculpture which stands proud in the recently developed town centre of Irvine.

The sculpture was fabricated using 12mm thick grade 316 stainless steel sheets which were then welded together to form the unique shape. There is granite text lain into the ground below which is written in reverse, but when you read it using the mirror finish on the sculpture you are able to read the text which is based on the history of the town.

The project was a joint venture between artist Peter McCaughey, Irvine Bay Regeneration, Land Engineering and m-tec.



THE SWIRL







Project: The Swirl

Architect: Maria Rosa Kramer

Location: Didcot Orchard Centre, Oxfordshire

m-tec were selected by architect Maria Rosa Kramer to manufacture The Swirl sculpture for Didcot Orchard Centre.

Standing at eight metres high and supported by three vertical legs, the 316 grade stainless steel sculpture is mirror polished and finished with red paint on one of its sides to represent the colour of an apple.

Inspired by Oxfordshire's great apple growing tradition, Maria's vision for the stunning sculpture was for it to resemble the peeling of an apple and refers to the name of the town centre and surrounding area.

The owners of the shopping centre and the public in Didcot have given great feedback on this stunning sculpture and they are delighted to have it as a centrepiece for their shopping area.

STAINLESS STEEL CANOPY

Project: Stainless Steel Canopy

Architect: RH Partnership

Location: Napp Pharmaceutical, Cambridge

The bespoke stainless steel canopy was fabricated in-house from 316 grade stainless steel and installed at Napp Pharmaceutical in Cambridge.

The custom built canopy is over 22 metres long and has a striking shape which was designed by RH Partnership Architects. It also features a remote sun shade which is operated electronically depending on the weather conditions.

This project was a joint venture between m-tec, Napp Pharmaceutical, RH Partnership, and VINCI Construction Levolux.







DARWEN SPITFIRE MEMORIAL -







Project: Darwen Spitfire Memorial Location: Darwen, Lancashire

The stunning stainless steel spitfire memorial sculpture, that was unveiled on Remembrance Day 2012, was overseen by m-tec and manufactured by WEC Group Training Academy apprentices.

Darwen was the smallest town in the UK to finance a spitfire during WWII, and the Spitfire memorial is a lasting reminder of the Town's contribution to the War Effort. The sculpture took two years to complete and cost around £175k. The sculpture has been 100% funded, manufactured and donated by the WEC Group to the people of Darwen.

The motivation behind the donation is to recognise and remember the massive contribution the people of Darwen made when they managed to raise the cost to purchase a spitfire for use in the WWII R.A.F.

The 3:1 ratio stainless steel sculpture, with a wing span measuring 3.8 meters and standing 6.9 meters high was hand crafted by the apprentices.

This fantastic sculpture is the town's legacy to the people of Darwen who made the contribution to the country's war efforts.

THE WAVE BLACKPOOL



Project: The Wave

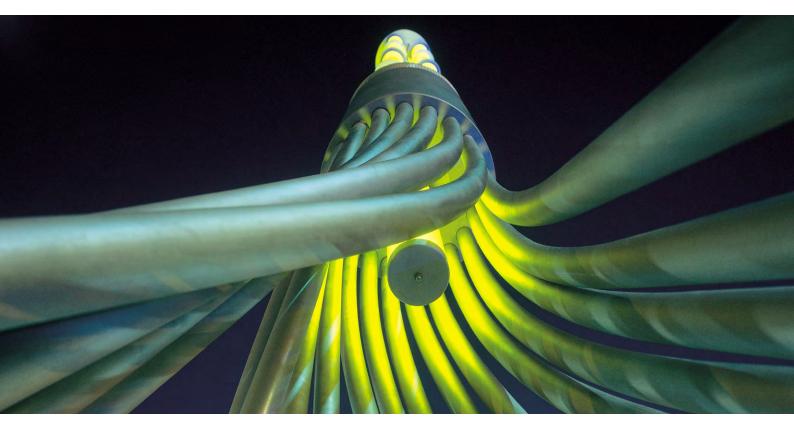
Artist: Lucy Glendinning

Location: St Johns Square, Blackpool

The Wave sculpture was created by m-tec in a joint project between Blackpool Borough Council and sculptor Lucy Glendinning. The sculpture, located in St Johns Square, Blackpool, weighing 17 tonnes and standing 10.3m tall.

The Waves' complex shape was a challenge for the fabrication team at m-tec. It is made from stainless steel and curved to represent a wave breaking. The studded resin inserts in the design are internally lit by colour-changing LEDs, to give the structure a constantly changing appearance.



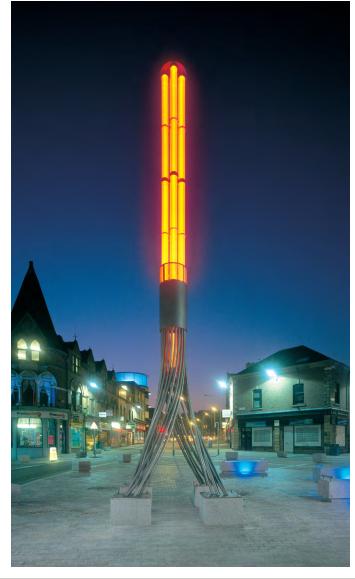


Project: The Braid Sculpture
Artist: Simon Watkinson
Location: Blackburn, Lancashire

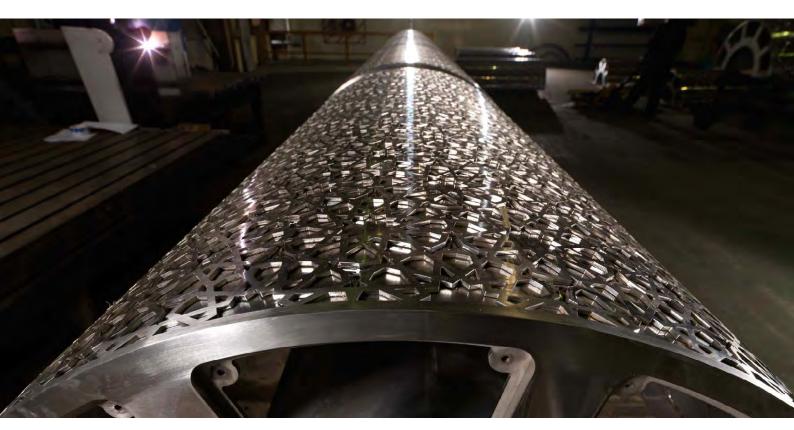
The Braid Sculpture was a joint project on behalf of Blackburn with Darwen Borough Council, artist Simon Watkinson, Capita Symonds, Stage Electrics and m-tec which were responsible for the fabrication and attachment of specialist lighting to the Braid Sculpture. The metal section was fully fabricated and bead-blasted at the m-tec headquarters. m-tec were also responsible for the delivery and installation of the Braid Sculpture to the Blackburn town centre location.

Artist's Vision

In simple terms the Braid draws on the notion of a multistranded element creating strength and dynamism. Within Blackburn it obviously draws upon the textile history of the area, along with an implied reference to diverse elements binding together. Visually the sculptor wanted to make something that appeared to emanate from the floorscape without the need for a mediating plinth. The LED lights in the granite suggest further strands that have been cut, as if the whole structure is in fact a fat fibre-optic cable harness emerging from the hard landscaping. The top plates are like the cards used in Jacquard looms for 'programming' the design.



THE MINARET



Project: The Minaret Sculpture

Artist: David Gallagher

Location: Brick Lane, London

The Brick Lane Minaret Like Sculpture represents new standards in stainless steel public art sculpture, featuring cutting edge architectural metal fabrication techniques. With the Brick Lane Minaret Like Sculpture, m-tec have brought dga architects' vision to life in a stunning piece of bespoke metalwork architecture.

The Minaret Like Sculpture is part of the extensions to the Brick Lane Jamme Masjid (Brick Lane Mosque), a Grade II listed building dating from 1743, and the centrepiece of the Brick Lane Cultural Trail.



m-tec projects











