

STRONGER TOGETHER

MPM

The Power of Partnership in your Supply Chain



Case Study Book



Introduction

We manufacture and supply composite/fibreglass tooling and products; enhancing supply chains around the world.

Delivering on our promises, producing quality British products since 1978.

MANUFACTURING EXCELLENCE FROM ENQUIRY TO DESPATCH
Through People, Processes and Standards

A turnkey composite solution with in-house expertise to meet your specific needs



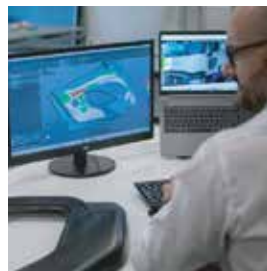
GRP Parts and Tooling

Our expertise in GRP manufacturing allows us to produce high-quality parts and tooling tailored to your needs. With decades of experience, we ensure durability, precision, and superior finish in every component, supporting various clients across many industries.



Pattern Making

Our skilled pattern makers bring your designs to life with meticulous attention to detail. Whether improving existing designs or starting from scratch, we guarantee accuracy and excellence in every project.



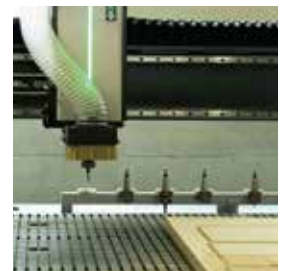
Product Development

From concept to completion, we partner with your team to develop existing products or transform ideas into market-ready components. We can work from your finished drawings or CAD models or help design custom solutions to meet your needs.



3D Scanning

Our cutting-edge 3D scanning technology captures every detail of your components with pinpoint accuracy, enabling accurate reverse engineering of existing parts.



CNC Machining and Kitting

Our CNC equipment enhances our pattern-making capabilities by providing us with the ability to manufacture highly accurate patterns in a variety of materials and support production by machining reinforcements for GRP parts.

Manufacturing Excellence from Enquiry to Despatch Through People, Processes and Standards

34,000

sq feet building on a 2-acre site

200

Years of combined team
composites experience

ISO
certified since

2013

13+

Sectors
supplied

20k+

Number of
products
produced
annually

54%

of our annual
electricity needs
are provided
by solar

Established
1978

9+

Years
average
team member
tenure

8

Years
average
customer
partnership length

45+

team members
in 2024

50+

Active customers
in the past
three years



Learn more about the
Customer Journey with MPM





Quality delivers powerful partnership

Multi Source Power design, build, and deliver Battery Energy Storage Systems for both on- and off-grid applications. The MSP storage systems provide solutions to projects outside of traditional markets, where stable power can be scarce and investing in the right equipment is vital in providing consumers, businesses and investors with stable power grids. The products are designed to have a small footprint, be lightweight in construction whilst offering low operating cost – GRP is the best solution to provide these features.

With the market sector requirements increasing, MSP started to find that their previous supplier for Composite Housings was beginning to suffer some quality issues. Having found MPM's website, it was easy to understand and evaluate them as a supplier. The team at MSP could watch a virtual tour online and saw that they were going to be a proficient and professional supplier.

Following this they came to see the factory and meet the team. The CEO and mechanical engineer made the trip and were excited and pleased by what they found. The CEO - Simon, has a background in boat building and it meant that his knowledge of composites allowed him to really understand the processes at MPM.



QUALITY

Initial test orders were placed for evaluation. As soon as they saw the quality of the initial moulds, they knew that they had found a great supplier and that the quality of the product was going to be spot on.

"As soon as I saw the moulds, I couldn't have been more delighted, the quality was excellent, and I knew we were going to be very happy with the final product. What I did not expect, was that our order had no issues, and it was 'right first time' – in our experience this is very rare. Amazing. Their attention to detail is so professional, we can pass this excellence onto our customers, hitting all our delivery schedules and orders with confidence."

ACCURACY

MSP were the first MPM customer to take advantage of this new CNC facility. The CNC patterns were completed in less than two weeks, shortening average industry standards' lead time (when buying in) by around 50%. This, combined with the precision of the 3D scanner in-house helped in inspection and validation, ensuring unmatched accuracy and quality.

"We have always been delighted with the quality and accuracy of MPM's products. When their new 3D scanner was implemented, it further reinforced their precision and reliability – we were not surprised to see that there was no need to adjust our patterns. We are confident that we have selected the best supplier and will continue working with MPM."



PROCESS AND PRODUCTION

MPM encourage weekly/monthly meetings and keep an 'Open Items' log of queries/challenges which have developed a collaborative solution-finding culture.



Improve tooling



Full in-house capabilities



Right first time

Even when faced with challenges, MPM are always proactive and find the most effective solution for both parties.

“As our partnership has evolved, document control, design changes and drawing revisions were handled more effectively streamlining the production process. This has helped us plan our own production upstream – with access to the new customer portal at MPM this also allows us to check our orders at anytime from anywhere.”

The partnership is continuing to grow and MSP are placing more orders with confidence.

BENEFITS OF USING MPM:

- On-time deliveries
- Speedy delivery
- Quality
- Accuracy – Right First Time
- Always proactive and open to ideas, a true partnership
- The collaborative way MPM deal with any issues

“Having worked with MPM as a supplier for many years across 2 companies, I continue to have confidence in their proactive approach and ability to deliver, every time; and when challenges do arise, they meet them head-on and are quick to respond.”

Simon Patterson,
Chief Executive Officer
Multi Source Power



THE CHALLENGE

Time-sensitive new product introduction

THE VALUE WE ADDED

Efficiency as an in-house solution met time-sensitive challenges

THE BENEFIT TO THE CUSTOMER

High speed to market parts, right first time on time

5 Reasons to choose MPM

Processes and standards to ensure you get excellent service from enquiry to despatch.

2

Boosting capacity to meet demand and de-risk growth.



3

High levels of quality, experience and expertise to deliver on time, in full, right first time.

4

A place that lives and breathes team values ensuring happiness and key results for all.



5

End-to-end supply chain partner committed to customer success.



Developing an uplifting partnership

The campervan conversion specialists met with several manufacturers before working with MPM. Jerba Campervans approached MPM in 2017 to have more control over their design and supply chain, making their elevated roofs for the T5 and T6 VW campervans and the new Ford Transit in 2025.

Jerba Campervans began converting vans in 2005, they now specialise in converting VW Transporter T6s and are official partners of Volkswagen as registered vehicle bodybuilders for their Transporter T6 and VW T6 camper.



Full in-house design & development service



Speed to market using CNC pattern making



Transfer to full RTM production

QUALITY

With the retirement of the VW T5 and T6, Jerba approached MPM to design, develop, and produce a new bespoke roof assembly kit. This new kit for the transits pop-top roof can be manufactured using RTM, allowing MPM to manufacture the product in higher volumes compared to earlier hand-lay versions. In collaboration with Ford, MPM and Jerba secured design approval in late 2024, ensuring the vehicle's critical safety features remained effective after installing the cassette roof assembly.

ACCURACY

Using the latest CAD software and data directly from Ford, MPM created a product designed to mate perfectly with the bodywork of the Transit. Using RTM, the product can be lowered as a cassette onto the van roof and mounted in minutes, not hours thanks to the dual A-face production process.

PROCESS AND PRODUCTION

The parts are laid as dry fibre and injected under vacuum, using industry-standard injection equipment, providing repeatable

quality at speed. Parts can be manufactured rapidly, releasing the tool for manufacture with multiple cycles per day possible from a single toolset.

MPM and Jerba Campervans have been working together for 7 years now and Simon says:

"One of the reasons why we chose MPM was because they were easy to communicate with and they were always there on the other end of the phone if we needed them. We are treated as both an individual and as a valued customer with great personal communication and MPM always delivers us the best possible solution."

Simon Poole – Chairman at Jerba Campervans.



"MPM are easy to work with, they listen and are helpful but at the same time are really easy going in an informal manner."

Simon Poole,
Chairman
Jerba Campervans

THE CHALLENGE

Design control and supply chain

THE VALUE WE ADDED

Developed bespoke market-leading roof design. Ensured faster installation with precision

THE BENEFIT TO THE CUSTOMER

Support to create a tailored solution and reliable, repeatable high-quality production



Manufacturing for the ‘Staycation’ boom

For over 30 years, the Atlas Leisure Homes brand has led the way when it comes to holiday home design. They design and manufacture high-quality, first-class leisure homes with a first-class service.



Innovators



High quality products



Easy to deal with

The Covid-19 pandemic caused a huge increase in the demand for ‘Staycation’ holidays, which consequently increased the demand on the caravan and leisure home manufacturing industry. After experiencing issues with their previous supplier, Atlas were on the lookout for a new GRP partner who could not only offer high-quality products and service but were also ‘innovators’ interested in developing products, people and their business.



With the shower cubicles being one of the first things to be installed in the leisure homes, Atlas required a reliable supplier that could deliver products without fault on time, every time. After MPM’s Business Development Leader connected with the Atlas team, the relationship developed and Steven McGawn, Managing Director at Atlas, with his business partners, then visited the MPM factory.

Visiting the factory enabled MPM to show Atlas what they were currently working on and how they could add expertise and value in becoming their reliable GRP supplier.

“We were looking for a supplier that could offer us high-quality products that are more robust than we had previously, with better after-sales service. This was exactly what MPM offered.”

After initial discussions, MPM manufactured a mould of the shower cubicle, enabling them to build a prototype product to show their capabilities. Working together, they made a few minor amendments to develop a product that both businesses could be proud of with a better look and colour, more robustness and higher quality.



“From the initial mould to the final product we worked in partnership with MPM to develop a product that we could both be proud of. The ingenuity of the MPM team to propose new ideas has been exceptional.”

Steven McGawn,
Managing Director
Atlas Leisure Homes

THE CHALLENGE

Poor quality from previous supplier

THE VALUE WE ADDED

Improved strength and quality of products

THE BENEFIT TO THE CUSTOMER

Higher quality resulting in reduced maintenance costs and improved brand reputation



MPM navigates subsea challenges with top level expertise

Balmoral Comtec specialise in the design, development and delivery of sub-sea architecture, buoyancy, protection and insulation for the offshore energy sector. Deploying their specialist knowledge, proprietary laboratory, hydrostatic and mechanical testing facilities, their products are used across a spectrum of applications. Combining services from concept development through to design, toolmaking, manufacturing and testing.



Highly technical product



Technical support and development



Rapid delivery

With continual innovation delivering technical solutions to the industry, Balmoral reached out to MPM as a partner to manufacture a new solution to existing infrastructure by replacing polypropylene moulded parts with high performance monolithic GRP. Having designed, modelled and computer tested the solution, MPM were able to deliver parts which exceeded the necessary specifications as verified by independent testing by CTL in Galway, Ireland.

QUALITY

Being a highly technical and structurally significant part, materials and process specifications were vital in ensuring the products conformed to the necessary standards for performance and quality.

MPM developed an FAI process, checking jigs as well as digital machined glass kits to ensure the technical performance of the parts was consistent and as ready for volume manufacturing as possible.

ACCURACY

Throughout the project, the risk of a failed infusion process was effectively managed using a detailed layup plan and SOPs. Key data such as temperature, pressure, and fill time were recorded on route cards, ensuring full traceability for each part.

Each component was also digitally marked with a unique identification number.

Additionally, every product was paired with a test sample manufactured concurrently. These samples were laboratory tested to industry standards, providing technical data on tensile, compressive, and hardness properties. The results significantly exceeded the required levels, ensuring safety and durability under the harshest sub-sea conditions, with a failure point exceeding 4 tonnes.

PROCESS AND PRODUCTION

Using a form of bagged vacuum infusion, MPM deployed their experience in materials and process knowledge to produce a part thickness in excess of 45mm and a combination of over 200 digitally cut glass-fibre patterns. MPM was proud to have developed a combination of quadaxial glass and glass-based flow medium which enabled the part to be infused in under two hours.

BENEFITS OF USING MPM:

- Specialist materials and process knowledge
- CNC cut jigs and templates to support product quality
- In-house/turnkey manufacturing
- Strength of supply chain relationships to shorten lead times and maximise quality

“MPM worked on the project from concept right the way through to first off parts, testing and serial production. Using knowledge of advanced materials, MPM were able to exceed expectations of performance, cycle times and on-time delivery to manufacture a highly technical off-shore infrastructure component.”

Ben Parsons,
Project Engineer, Balmoral

THE CHALLENGE

R&D to develop a complex product using an unproven process

THE VALUE WE ADDED

Technical support, derisking and development

THE BENEFIT TO THE CUSTOMER

Accurate proof of concept and rapid delivery

The companies



we work with...





Long-term partnership drives innovation and quality in motorhome manufacturing

Operating from a purpose-built facility in Grimsby, North East Lincolnshire, Auto-Trail has established itself as a leader in the design and manufacture of high-quality motorhomes. Known for innovation and craftsmanship, the company continues to invest to deliver products that meet the evolving needs of motorhome enthusiasts across Europe.



Improvement



Innovation



Quality

Auto-Trail has been a valued customer of MPM since 2022, and the relationship has been built on shared values of quality, reliability, and transparency. By supplying a wide range of bespoke high-finished GRP components, MPM has enabled Auto-Trail to maintain its reputation for excellence in both design and performance.

HIGH-PERFORMANCE COMPONENTS

Over the years, MPM has delivered over 25 GRP parts at repeat manufacture for Auto-Trail's motorhomes, including roofing, panels, trims and much more. These components are designed to meet stringent quality/performance standards, offering durability and weather resistance while maintaining a lightweight structure crucial for vehicle efficiency.

MPM's expertise in creating tooling has also been pivotal in ensuring the precision and consistency of these components. Whenever new designs are introduced, MPM is quick to deliver patterns and moulds to the exact specifications required, ensuring a seamless transition into production and resulting in high-speed to-market parts. The partnership has supported Auto-Trail in maintaining its competitive edge, offering premium-quality motorhomes that appeal to a diverse customer base across Europe.

COLLABORATION AND COMMUNICATION

The close working relationship between Auto-Trail and MPM has fostered a culture of continuous improvement. Both teams collaborate to address challenges proactively, with MPM providing critical transparency and

communication lines to ensure Auto-trail's highly scheduled manufacturing internal processes do not come to a stop, as with many vehicle manufacturers, one component delayed means bottlenecking full production lines. The reliability of MPM just-in-time components means Auto-Trail can have trust in their supply chain partners to meet the needs of end customers.

"MPM's ability to adapt to our high standards and unique product range has been key to establishing trust in their capabilities. While the early stages required a learning curve for both parties, constant communication and transparency have built a strong relationship and has cemented confidence in their ability to meet our needs. The work ethic and product understanding of MPM's highly skilled operatives have been instrumental in delivering the quality we require. Now a valued member of our supplier group, MPM's dedication and support continue to make a positive impact on our operations."

Andrew Gibbins,
Supplier Quality Manager
Auto-Trail

THE CHALLENGE

Delivering just-in-time parts to a high-end motorhome manufacturer

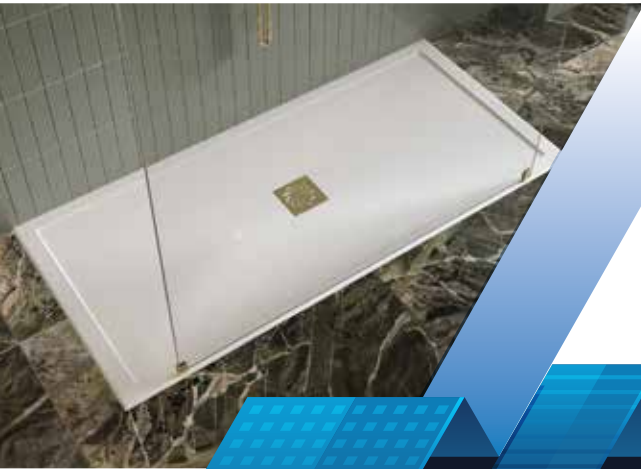
THE VALUE WE ADDED

Reliable and repeatable production volumes

THE BENEFIT TO THE CUSTOMER

Creating a more predictable, supportive and local supply chain





Historical relationship builds quality that lasts

Trojan Plastics are the largest bath manufacturer in the UK and one of the leading bath manufacturers in Europe. With a wide selection of styles and designs to choose from, Trojan can offer a high-quality bath to suit every taste, budget and bathroom size. Today, Trojan produces a substantial range of bath and panel designs for a wide and varied customer base.



Improve tooling



New tooling and 3D scanning



Data-driven insights

Operating from Milnsbridge, Huddersfield, West Yorkshire, the manufacturing site has undergone a sustained and continued investment programme in modernising old mill buildings and the manufacturing equipment used to produce a quality product.

MPM has been a supplier to Trojan since 1978 and continues to do excellent business together. Since Trojan was founded in 1975, the company's philosophy has remained the same: to produce a quality product using the best possible materials. This philosophy has led Trojan to continue working with MPM, which delivers high quality and the best service on all orders.

MPM supply Trojan with several products, both bespoke and mass-produced items.



EXTRA HIGH-QUALITY FINISH

Over the years, MPM has supplied Trojan with varying bath panel designs in GRP for the premium end products and produced over 30,000 fully wrapped round bath panels, allowing Trojan to maintain their high-quality offering Europe-wide. Also supplied are patterns, jigs and moulds for shower trays, which Trojan uses to produce the finished product. Each time a new design is launched, MPM are quick to make the new patterns, moulds and masters on time and to the exact high-quality finish.

The two companies continue to work closely together to ensure the correct solution and high-end products are provided, and the relationship between the two companies could not be better.

"In over 30 years of trading with MPM, I have never had cause to question or fault their quality and service. There was a seamless transition when Ben took the business over from his father in 2010, and the team at MPM continue to invest in the future providing services such as CAD, CNC machining and 3D scanning capabilities, which gives us the drive to grow our businesses together. Backed up by quality products, service and advice, we feel confident about the future together."

David Mosley - Managing Director

"We prefer to work with family-run businesses because decisions are made quicker, they are passionate about their businesses and are dedicated to mutual growth. We also have the policy to work with local companies to safeguard the environment."

David Mosley,
Managing Director
Trojan Plastics

THE CHALLENGE

Improving tooling

THE VALUE WE ADDED

New tooling and 3D scanning for quality evaluation

THE BENEFIT TO THE CUSTOMER

Data-driven insights, local supplier and capacity



Mutual values bring safety and quality to hazardous environments

Aqua Safety Showers is a world-leading and independently owned UK manufacturer of emergency safety showers and eyebaths. With over 40 years' experience in the safety shower industry; the team have a common passion for creating an independent competitive company to provide standard and customised safety showers for the oil, gas, water and chemical industry.



More capacity



Full in-house capabilities



Added capability, lead times and trust

Aqua Safety Showers always strive to offer the highest quality products manufactured to meet specific safety standards as well as units that will meet both technical and commercial requirements.

Alongside this, Aqua Safety Showers build relationships with their customers to give them 100% customer satisfaction.

Following the disastrous fire for MPM in 2018, Aqua Safety Showers felt that MPM's quality of product and process control slipped a little and they had to move to an alternate supplier at the time.

for consistent on-time, in-full deliveries and top-quality products, and was confident that MPM has continued to improve their service and offer, thus returning in 2024.

SUPPLY CHAIN GROWTH

With Aqua's business reaching this new growth phase, Janet knew that she could trust Ben and the MPM team to deliver without having to spend time carrying out supplier checks. With Janet's in depth experience in managing a supply chain in a manufacturing environment, she understood the importance of quality, while also appreciating the different additions to MPM's service offering with 3D scanning, CAD design and CNC machining capabilities.

"We have an amazing working relationship with the MPM team, they listen to us, support us and always deliver on their promises. Returning to MPM has been a great decision and we look forward to a long and successful future working together."

"Every member of the MPM team proactively goes the extra mile, to make sure every hurdle is overcome, and our production line runs seamlessly."

Janet Waine,
Managing Director
Aqua Safety Showers



CONSISTENT, ON-TIME DELIVERIES

Aqua Safety Showers returned as a customer, bringing production and supply back in the hands of MPM. This came after Aqua had constraints with their existing supplier, affecting their business growth. Janet Waine (Managing Director) understood the need



THE CHALLENGE

Lack of capacity with the previous supplier

THE VALUE WE ADDED

Full in-house capabilities to meet growth

THE BENEFIT TO THE CUSTOMER

Added capability, lead times and trust



As a responsible manufacturing company, we are committed to sustainable practices, net zero targets and giving back to our communities.



Inspiring the Next Generation

We are committed to raising awareness of the vast career opportunities in manufacturing by organising factory visits, visiting schools and colleges, and holding career events to address the industry skills gap.

Leeds Manufacturing Festival

We are proud to be supporters of this local festival that encourages the link between education and manufacturing, helping to secure the future generation.



the **Howarth foundation**
business building futures

henshaws
beyond expectations

Howarth Foundation

MPM are proud to have supported the Howarth Foundation and continues to value the impact of their work.

Looking ahead, we are excited to strengthen our efforts by supporting a wider range of charities, such as Henshaw's and Sue Ryder, through various team activities, continuing our commitment to making a meaningful difference.

Sue Ryder

Manorlands
Hospice

Sue Ryder

A charity close to our heart, we regularly support the work of the Sue Ryder Manorlands Hospice in Oxenhope, near Keighley.



Ilkley Town

We are delighted to retain strong bonds between club and community, sponsoring local club Ilkley Town AFC in the Northern Counties East Football League Division One.



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