



Carbon is carbon!



HPC  By P. Fediuk 
High Performance Composites



Carbon is carbon! Carbon isn't carbon!



There are many strong arguments for using composite.

Good composites aren't cheap, but cheap composites can quickly become expensive. Here's why.

When going for a carbon solution, one is principally looking for unrivalled toughness combined with extremely low weight. But what is of overriding importance when using carbon or any other kind of composite material is the route one follows to the finished product. It's a route that can be both devious and long.

The incorrect use of materials and methods, poor structural solutions or the cutting of corners, can lead to very serious consequences. Particularly because one expects and relies on those products to be robust.

My own background comes from several producers within the composite field, including Umoe Mandal. This is the player that has most experience in the use of composites in Norway. Much of my own experience since then has come from assignments in racing and motor sport. It's been demanding principals here that have given me plenty on which to hone my skills. Together we have arrived at solutions that are in demand far beyond the borders of Norway.

From drawings or an incoming enquiry, it's not some huge organisation that gets into gear but rather qualified professionals who can flesh out an idea into test production. It means shortening the time it takes from idea to finished product.

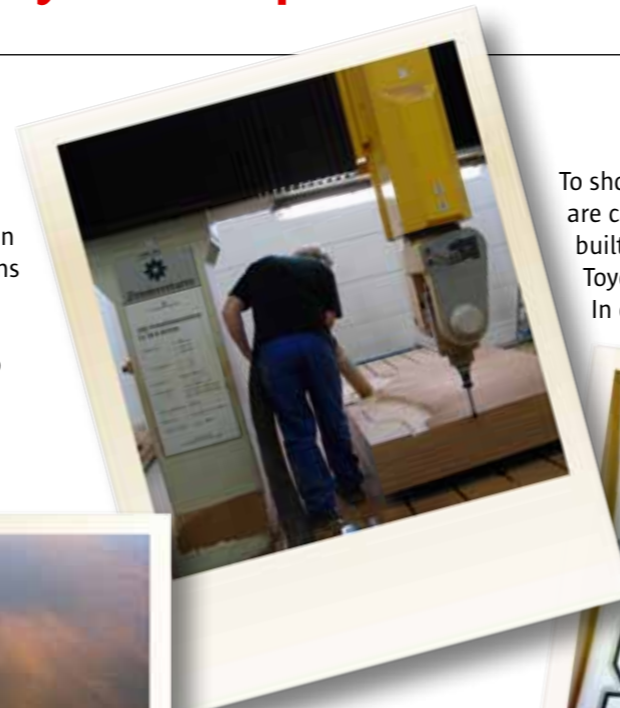
So if you have something that calls for a composite solution, or something that you feel might almost be insoluble, don't hesitate to contact us. HPC is located in Fredrikstad. We have functional premises with one of the very largest autoclaves in the country. I should be delighted to tell you more about what HPC can do for you.

We prepare composite solutions based on customer needs. Common to all solutions is quality at every phase of production. Whether we get drawings or 3D files, we have access to 5-spindle mills to develop models, moulds and a lot more.



If it can be made, it can generally be made in carbon. Stronger, lighter and therefore quicker.

With Norway's third largest autoclave on hand, we are now ready to meet new challenges from industrial businesses.



To show just what we are capable of, we've built a complete Toyota Supra roadster. In carbon!



Construction jobbing has taught us to solve problems on site. To think out new solutions and bring this experience with us into new production work.

Examples of repair work that puts extreme demands on strength and finish. A highway wheel rim generally costs NOK 20,000 kroner and when repaired, it's just as good as new. Or better.

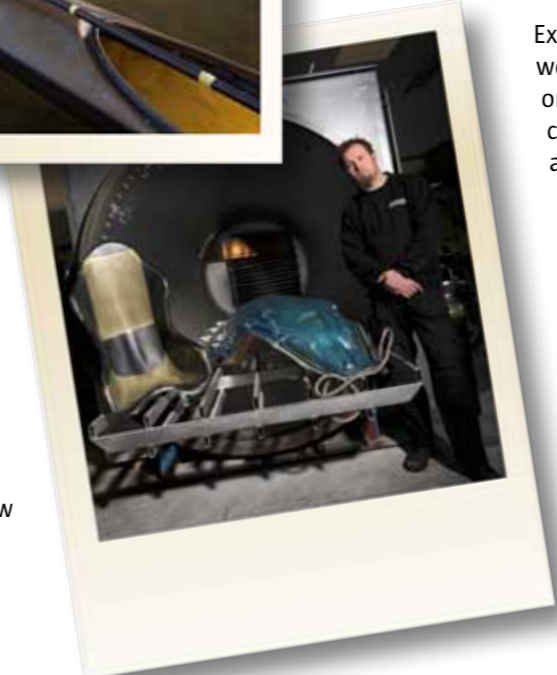


Glass fibre toughened plastics
This was where the whole composite story started but a lot has happened and the improvements are legion. We are fully up-to-date and can provide you with solutions that are sound and economical.

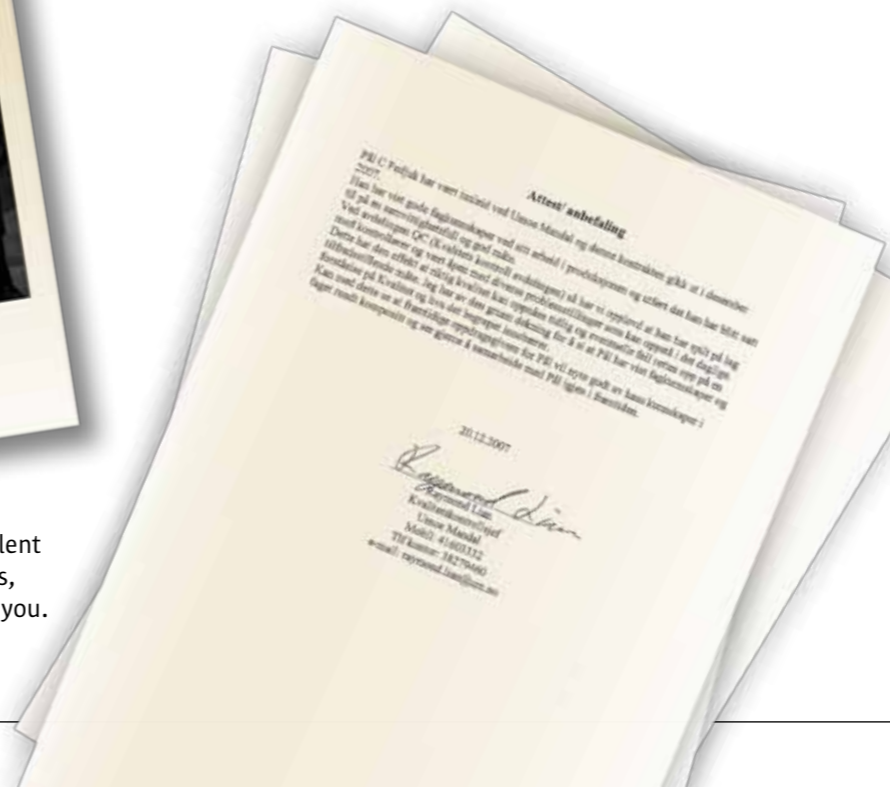
Basalt
Relatively new technology that provides strength far in excess of glass fibre but at prices that are far below carbon. Excellent thermo mechanical qualities.

Aramid (kevlar)
Well established and well documented materials and production solutions that offer extreme strength and constantly new possibilities.

Carbon
The use of carbon provides the optimal strength/weight combination. There's a profusion of suppliers and methods on the market. We know them and know how to make the right choice.



We have a long list of excellent references. If you contact us, we'll gladly share this with you.



When the Defence Force needed gun turrets for its new frigates and MTBs, we were involved in the development of production methods.

Important check-list if you're looking to create something in composite.

- strength
- weight
- durability
- shaping
- price
- number
- maintenance
- availability

We are not expensive but we are profitable.
We want to be engaged in development and
we want to make your production viable.
By using us, you will find that you'll save
time and money. While improving the quality.

Parts supplied by H.P.C are 100 % carbon. Or 100 % Kevlar.
Or whatever we agree the material should be.

HPC 
By P. Fediuk
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Get in touch with us: +47 91 36 45 99 or visit
www.hpcomposites.no

