

Serimax. The Complete Picture

World Class Welding Partner



We know you're busy. So in this brochure, we're going to focus on what you really need to know about Serimax. What sets us apart within our marketplace. And how working with us can ensure the complete success of your projects...

Serimax is an international full service welding company. We plan, design, manage and deliver fully integrated welding solutions on land and at sea, in the most challenging environments and most extreme conditions. Over more than 30 years, we've won a reputation for quality, productivity and innovation that we never stop working to improve.

Above all, though, we're known for our ability to get the job done. No matter how demanding the project specifications, we focus all our wide ranging expertise and long experience on understanding our clients' needs. We make their goals our goals. And we don't rest until we have achieved them.

Which is why, increasingly, all over the world, we're not just working with our clients on welding pipelines. **We're building partnerships with them.**

The full service welding company

So what sets Serimax apart? The short answer is that, while others may offer some of the same services, we can provide a complete welding service and support capability. With us, it's not just about state-of-the-art technology, or outstanding project management, or even sheer welding excellence. It's not just about our roots as a manufacturer of welding equipment, or our hard-won expertise in fabrication and spoolbase management. It's about how we bring all this, and much more, together for the benefit of our clients.

Welding from A-Z

Full service welding begins with the impressive scope of our operations, which range from marine pipelines, spools and landlines to onshore fabrication and multi-jointing.

But even more important are the breadth of understanding and depth of expertise that we've acquired over the years and which enables us to provide precisely the package of equipment, services and support that each client needs. Welding of the highest quality; expert welding engineering; professional project management

and training: and, underpinning all this, our unrivalled track record in designing and building the most advanced equipment for automatic welding.

From our clients' point of view, this A-Z welding capability spells peace of mind. It means they can lean on us – trusting us to share responsibility for production on the barge, rather than simply supplying people and equipment. And it means that if a problem arises, we'll be onto it without needing to be asked.



Automatic welding in Mitry-Mory

Full service welding – In brief

Pipeline

Trunkline
Flowline
Riser
Landline
Tie-ins

Fabrication

Spoolbase
Subsea structure
Multi-jointing

Engineering

Equipment, Procedure, Lay out

Operation

Handling, Welding, Assembling

Management

Site, Project, Sub-Contractors,
NDE, FJC



Manual welding in Evanton

Better equipped to meet your needs

Developing our own cutting edge welding systems gives us – and our clients – the edge. We know precisely what our equipment is capable of, enabling us to push it to its optimum performance, in all conditions.

Our long track record of innovation provides reassuring proof that, whenever a new challenge presents itself, Serimax can respond, developing new technology to meet specific applications for individual clients. The solution we propose may not always be exactly what the client has asked for: if we can see a better, more cost-effective approach, we won't hesitate to suggest it.

With Serimax, things connect and integrate: our range of capabilities and the breadth of our experience enable us to understand not just the specific issues involved in any major pipeline project, but the interfaces between them.

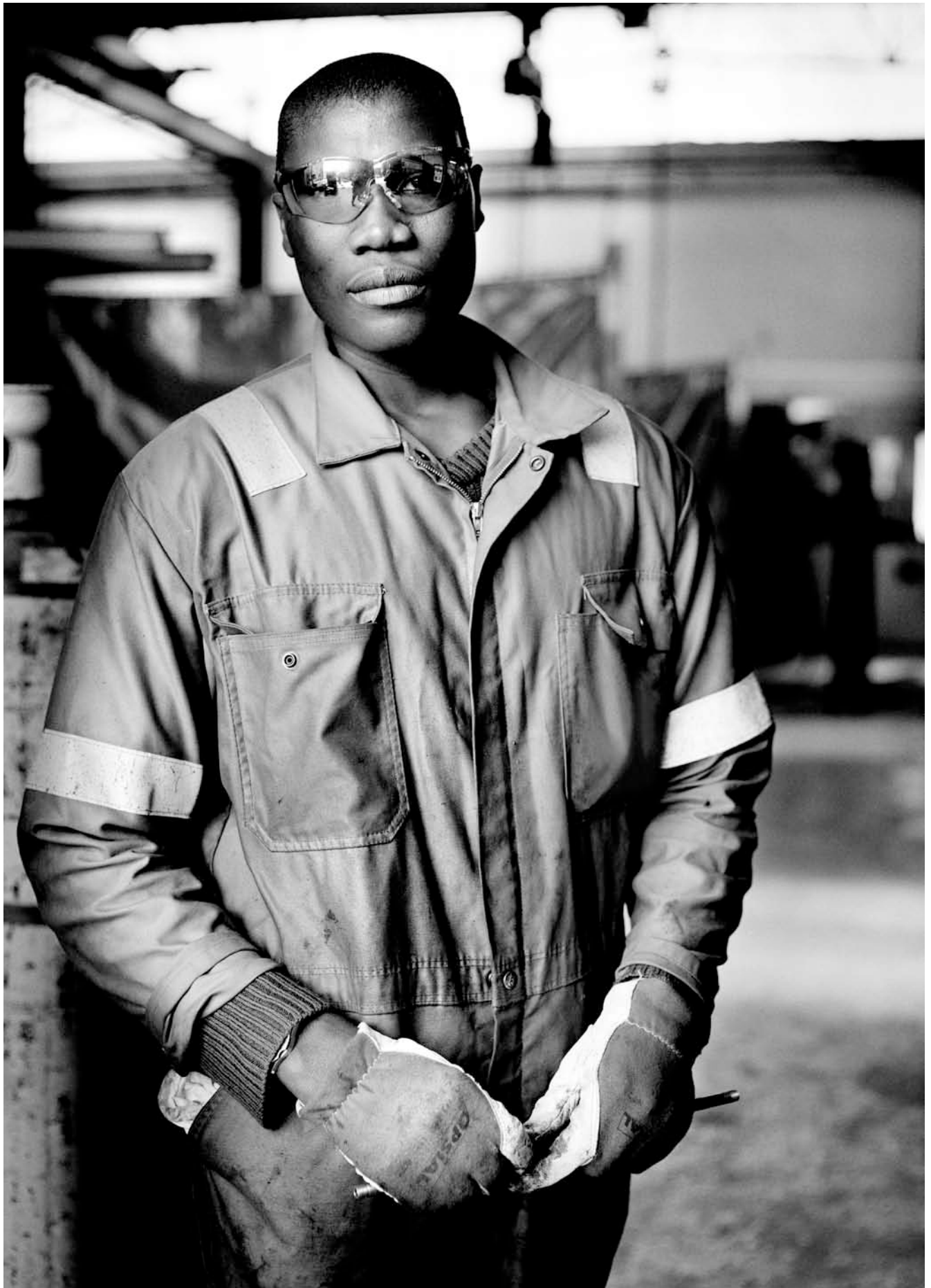
People, equipment, plus so much more

For the Simian Sapphire gasfield project in the Gulf of Suez, Serimax needed to provide a comprehensive, flexible service in order to meet set objectives and targets. The sheer volume of fabrication and welds was just one of the many challenges we faced.

On top of the usual technical issues, the Serimax team also had to train local workers and work round the clock to meet stringent deadlines. Working with pipe movement specialists Selmers, we

designed, manufactured, transported and set up a modular quad-joint fabrication complex in Damietta Port. We fabricated over 4,000 welds, developed the weld procedures (which meant simulating barge conditions) and even manufactured a turntable to replicate the offshore scope. We then placed welders offshore to complete the automatic tie-in welds of all the quads we had made.

Our contract was completed on time and on budget, proving once again that Serimax offers much more than just people and equipment. Our in-depth understanding of client needs, combined with our wide range of capabilities, enables us to drive projects forward to a successful conclusion.



Taking a break from training in Mitry-Mory

A whole world of welding excellence

Where in the world will you find Serimax? Wherever there is welding to be done, on land or offshore, from Australia to Brazil, Siberia to the Gulf of Mexico. And, no matter what the map reference, we work to the same exacting standards, while doing everything in our power to adapt to local cultures and respect the environment.

Strength in numbers

However big the project, Serimax can handle it. At the time of writing, our fast growing workforce numbers well over 600, the vast majority of whom are on operations around the world, working in all conditions.

In all, we're currently managing around 40 projects worldwide – bringing to them all the same commitment to the highest quality and operating standards. But, while we aim for consistent excellence, an important aspect of the way we work internationally is our willingness to adapt, both to meet client needs and to show sensitivity to local cultures.

We want Serimax to be seen as a positive force, economically and socially, wherever we do business. That's why, wherever possible, we integrate local people into our operations, providing high quality training.

From a commercial point of view, being adaptable means recognising that clients in different parts of the world may have very different expectations in terms of speed and productivity – and tailoring our service accordingly.

600+



Maintenance supervisor on a barge in Dubai



UAE



Russia

Expanding our global reach

Already, Serimax has operational centres around the world – in six countries, including the US, Malaysia and Singapore, as well as France and Scotland, where we have our roots. But we're continuing to expand our global reach, to enable us to achieve an even better fit with clients around the world.

In the US, our Houston office now provides North American clients with access to the fully integrated Serimax welding services and support offering: from spoolbase operations to locally based research and development and even a dedicated workshop facility.

Meanwhile in Russia, our commitment to establishing Serimax as a major force in landlines has led to us opening a new facility in Moscow.

And the wider our experience of working internationally, the more we have to offer locally. Because if a contractor in, say, India presents us with a specific challenge, there's a good chance we've already solved a similar problem in Angola, and can adapt what we've learned to meet our client's needs.

Extreme conditions, exceptional results

From one extreme to another, Serimax engineers and welders take everything in their stride, as two recent projects perfectly illustrate.

In the UAE, the Fujairah desalination, power plant and pipeline project included the construction of a 185km water pipeline and a 16km pipeline link. Working in desert temperatures often exceeding 50°C, we completed 17,000 welds to the 64" water pipeline with a production record at 118 welds on

a single day. More important still, the cool competence of our welders and maintenance technicians earned high praise from all involved in the project.

Meanwhile, at the Eastern tip of Russia, we've been working in sub-Arctic conditions, helping to put in the infrastructure at Sakhalin II, the largest integrated oil and gas project in the world. Using equipment specially prepared for temperatures as low as -40°C, our welding, maintenance and

spacing team delivered 9,000 welds on the 48" pipe, section 2B. And with a maximum production of 70 welds in a single day, we also achieved the best performance of all the welding teams on the Sakhalin II pipeline.



-40°C

Landline project:
Sakhalin II (2006 – 07) in Sakhalin Island

Landline project:
Al Fujairah (2002 – 03) in the UAE

+50°C

Total commitment to getting the job done

True, cutting edge technology is a vital part of what we do at Serimax. But, ultimately, our business is all about our people. It's their passion for what they do, their perfectionism and their total professionalism that enable us not just to build successful relationships with clients but to forge partnerships with them.

Ensuring the correct preparation





Verifying a sound result

When the going gets tough...

With so many variable factors and so much at stake, few commercial undertakings impose such extreme pressures or make such searching demands as a typical offshore or onshore pipeline project.

In this kind of environment, professional expertise and technical capability alone are not enough. You need to work with the kind of people whose attitude and commitment are beyond question; who are prepared to do whatever it takes to get the job done being mindful of company safety and integrity standards.

That perfectly describes our people. But, while the calibre of the individuals is critical, it's the way they work together – and with you, the client – that really makes the difference. With Serimax, teamwork is everything. And because we understand your objectives and share your goals we can anticipate problems and resolve them before you are even aware of them.

Total support from Serimax (without welding)

The longest and deepest North Sea trunkline, the 973km Langeled Pipeline stretches from northern Norway to the east coast of England. This hugely ambitious project was recently completed a month ahead of schedule, with Serimax playing a key role in providing automatic equipment, training, technical support and welding consumables on the pipelay vessel.

Over the course of two welding seasons, the repair rate on the Langeled Pipeline fell from an impressive 2.35% in 2005 to just 1.45% in 2006 – thanks largely to the pre-training of welders and the qualification of procedures that Serimax delivered.

Using Saturne torches (specifically developed by us for trunkline projects), and with our expert on-site supervision, our client was able to benefit from an exceptionally fast welding cycle and

laying rate – up to 216 welds per day. Now supplying a fifth of all gas to the UK, the Langeled Pipeline provides a perfect demonstration of how Serimax can help ensure the success of a project without doing a single weld.



Welding apprentices at the Evanton training centre

Becoming part of your team

Something else you are certain to appreciate is the way that we work with clients, sharing our know-how at every stage of the project.

In many cases, we are able to play a key role from the outset, with our engineers reviewing project specifications, advising clients during discussions with energy companies and even attending meetings alongside them.

Once the project is underway, you can rely on Serimax to ensure that the right team is in place, to keep operations running smoothly and productively.

You also have access to an enormous store of knowledge and expertise, which can be applied to virtually every aspect of operations, from modifying the barge to reorganising the layout of the entire site. All of which explains why, over time, many of our clients come to think of us as an extension of their own organisation.

1,000km

Exceeding client expectations, from Nigeria to Ghana

Over 1,000km in length, the West African Gas Pipeline is a hugely ambitious project, running both on and offshore from Nigeria's Niger Delta region to Effasu in the west of Ghana. We were contracted to provide a full range of welding services, including equipment, qualification of procedures and maintenance.

By focusing on preventative maintenance, we were able to minimize downtime and achieve impressive laying-rates. In fact,

we notched up an average rate of 295 welds per day across the course of the contract – exceeding the target set by our client by 10%. What's more, across a total of over 46,000 welds, the repair rate was just 0.25% – a testament to the quality of workmanship, equipment and maintenance on this demanding project.

Overall, our performance was rated as 'very good' on productivity, assistance provided, attitude towards safety and

preparation/shipment of equipment. And we're delighted to have made a significant contribution towards a project that, according to a study by Chevron, is set to create 10,000-20,000 primary sector jobs in the region.



Jumper fabrication in Fourchon



Supporting the line, from HSE through to engineering and planning



Comprehensively capable

At Serimax, our expertise goes far beyond welding. Ensuring that all our projects around the world are running as smoothly as possible requires a vast range of operational and technological capabilities. Because the quality of our frontline performance depends on what goes on behind the scenes.

Making it possible

Our international reputation rests upon the outstanding performance of our welding teams and of the automatic welding equipment we design and build. But, in terms of capabilities, there's so much more to Serimax; so many skilled professionals whose efforts make possible the achievements for which we are best known.

Just think of the critically important role played by our project preparation team, drawing upon their wide experience to ensure that all the necessary equipment and spares are provided, and the appropriate procedures developed, so that there's no danger of productivity being disrupted.

Similarly indispensable is our 24-hour on-site maintenance operation which provides the expert care that even the most advanced and reliable equipment needs to keep it functioning at peak efficiency.

We always make sure our people are in the right place at the right time, even when that means dropping everything and flying to the other side of the world at a moment's notice.

But we're not just a service business. At the same time, we're involved in heavy industry. Keeping a major spoolbase running smoothly, for example, demands enormous experience and a formidable range of management skills.

The same applies to fabrication, where we are breaking new ground for our clients, using innovative manufacturing processes and working to exacting tolerances to ensure that when the jumpers we build go offshore, everything fits first time – no matter how deep the installation.

Finally, a word on our work in the field of health and safety. We have no higher priority than the wellbeing of our people and we therefore place the greatest importance on our expertise in this area, continually striving to raise standards and to achieve our aspiration of being incident free.

100% focused on staying one step ahead

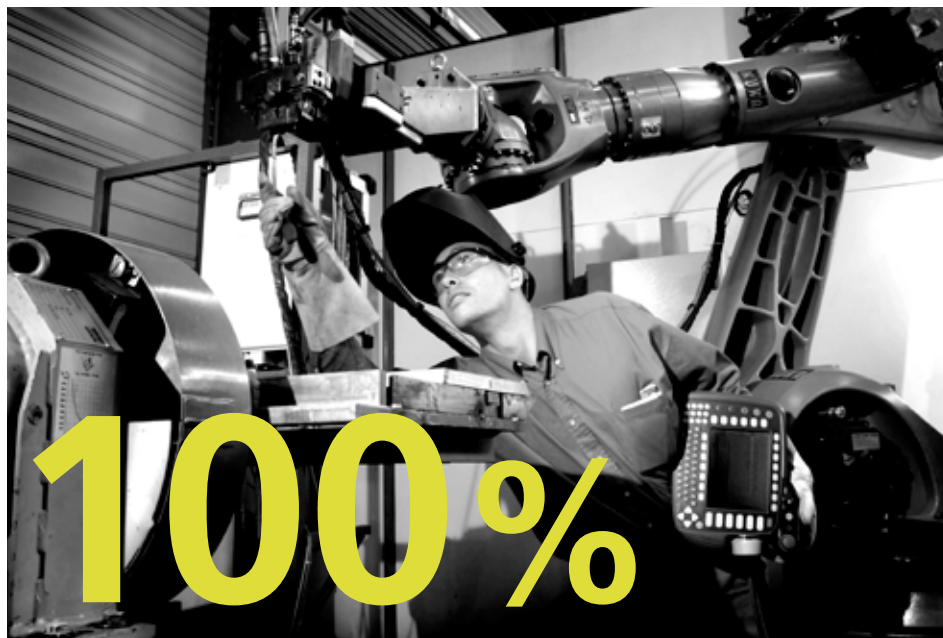
What is it that enables us to maintain our edge? Simple: our focus on client needs. We're constantly working to find better ways of meeting them, developing new approaches and technologies that will equip us to respond to the challenges they face, in a fast changing world.

Innovators from the start

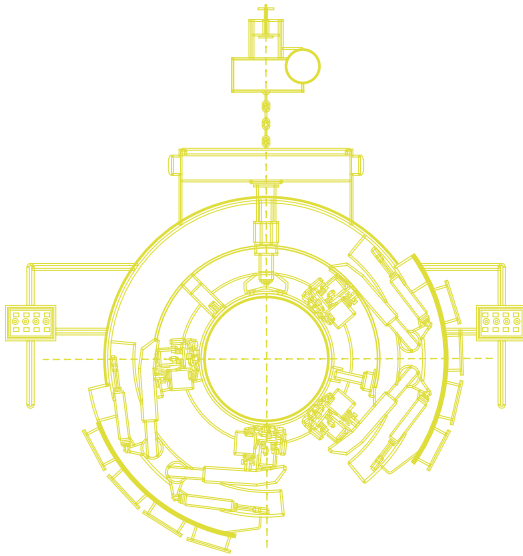
In the field of welding innovation, our track record is second to none. It stretches back to the earliest days of our business, when we developed the revolutionary 8-torch Saturne welding system, which doubled the maximum speed of automatic welding. And this tradition is still very much alive today and clearly reflected in our high level of investment in R&D and our 25-strong team of engineers and technicians.

Our focus is on the key issues now facing our clients in the energy industry: maintaining productivity and profitability, in a world where oil and gas are getting harder to extract. Take our highly successful Maxiluc re-rounding clamps. Around 8 to 12 times stronger than conventional clamps, they enable clients to spend less on large diameter pipe, thereby significantly cutting overall operation time.

We're at the leading edge, too, in developing internal video inspection and profiling systems, which enable precisely accurate weld geometry – a vitally important consideration in deep-sea projects, where pipes are subjected to enormous stresses. And, to mention one last example, no one knows more than Serimax about the complex techniques involved in welding the clad pipes increasingly used to safely extract crude oil containing high levels of impurities.



Focusing on the arc



Record breaking productivity

An industry leader – today and tomorrow

But, for us, innovation isn't just about responding to our clients' current needs; it's about anticipating the challenges and demands they are going to face, further down the road. So we are constantly working – both within Serimax and alongside other leading players in our industry – to stay one step ahead; to solve tomorrow's problems today.

In every area of our business we look to challenge the status quo and to find better ways of meeting our clients' needs – from our recent introduction of a rigorous new QM programme to further strengthening our team with talented people from different backgrounds.

And, as many of our clients look to extend operations into fields beyond oil and gas, you can be sure we are exploring how best Serimax can continue to provide them with a truly complete welding service and support capability.

Welding technology – the key areas

Materials

C-Mn up to X120
Duplex & Superduplex
13% Chrome
316L clad
625 clad
Ni alloys

Equipment

Generic re-rounding clamp
Pipe-facing machine 4" to 64"
Instrumented clamp for CRA
Digital Saturnax
Digital Saturne 36" to 48"

Welding process

GMAW
Pulsed GMAW
GTAW
Tandem
STT
Laser
SAW

For an even more complete picture...

We hope you've found this introduction to Serimax useful. But we're very aware that, in the limited space available here, we have only been able to provide an overview of what makes us a more complete solution to all your welding requirements. So please don't hesitate to contact us, or visit our website, if you would like more detailed information on any aspect of our technology, our projects or our comprehensive capabilities.

Better still, we would be delighted to meet and discuss with you in depth how our expertise and total commitment to getting the job done can help to ensure the success of your next project.

Put Serimax to the test. The tougher the challenge, the greater our determination to prove ourselves to you.



For further information

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www.serimax.com

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