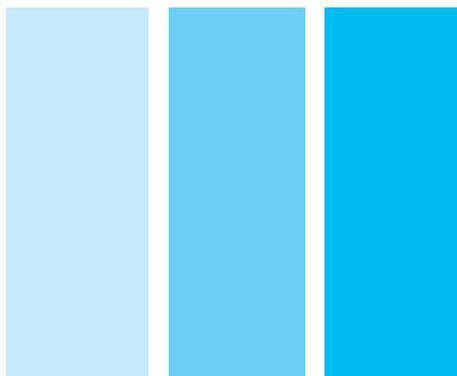




FOOTWEAR – YOUR LIFE, OUR WORLD



Knowledge, research and testing are SATRA's three pillars of strength. They have been supporting the products industries since 1919 and form part of the SATRA logo.



SATIRA

TECHNOLOGY



Footwear – your life, our world

When people buy footwear, they have high expectations. They want it to be comfortable and safe, to perform well and to last.

As a manufacturer or supplier of finished footwear or footwear materials and components, it's your job to ensure your products meet or exceed customer expectations. But you need to do this as efficiently and cost effectively possible.

That's where we come in. SATRA is here to

help you research, develop, test and manufacture the best footwear and footwear-related products possible.

Join SATRA and tap into almost 100 years of knowledge, expertise and innovation in the footwear and leathersgoods industries. With a reputation as the world's leading footwear technology centre and some of the world's best-known brands on board, you'll be in good company.

SATRA membership and you

With 1,600 members in 70 countries, SATRA is recognised as a centre of excellence across the world. Our members include leading brands, blue-chip footwear and clothing companies, distributors and retailers – the whole supply chain.

All have one thing in common – access to almost a century of accumulated footwear knowledge and advice, and the most comprehensive footwear laboratories and research facilities in the world. This provides everything you need to design and manufacture footwear and components to the highest level.

The SATRA name speaks volumes. By becoming a member, your customers will be

reassured that you have expert support in developing and testing products that will meet expectations and won't let them down.

Your membership includes exclusive access to the latest technical information, developments and trends in the footwear and leathergoods industries through our leading magazine *SATRA Bulletin*, and the member-only area on our website.

Membership subscriptions are ploughed back into SATRA's research and development programme, funding research into new materials, processes, test methods and equipment – developments that will help you create better-performing footwear and stay competitive.



SATRA
TECHNOLOGY



A footwear industry pioneer

At SATRA, we are proud of our heritage. Since 1919, SATRA has been dedicated to improving the footwear industry through technical knowledge, training, research and development. These principles remain fundamental today.

Our technological contribution to the footwear industry is unequalled and SATRA continues to be at the forefront of many shoemaking innovations. By working with our members, we have delivered many innovative products and services that have become widely accepted within the industry.

Our technology was in the boots that first

conquered Mount Everest.

It was SATRA that developed a chemical treatment to improve the adhesion of rubber soles – technology still being used in millions of pairs of shoes every year.

Our development of the heat setting process revolutionised footwear production and received the Queen's Award to Industry.

We were the first company to create a grading system for footwear leather, accepted by Asian tanneries and Western brands.

SATRA's many innovative test methods and machines are used to evaluate footwear globally.

Knowledge, research and testing

Knowledge, research and testing are SATRA's three pillars of strength. They have been supporting the footwear industry for almost 100 years.

Since 1919, we have been researching finished footwear, footwear components and materials, and testing to the limits of endurance. What we have discovered has helped thousands of companies like yours bring better footwear products to market.

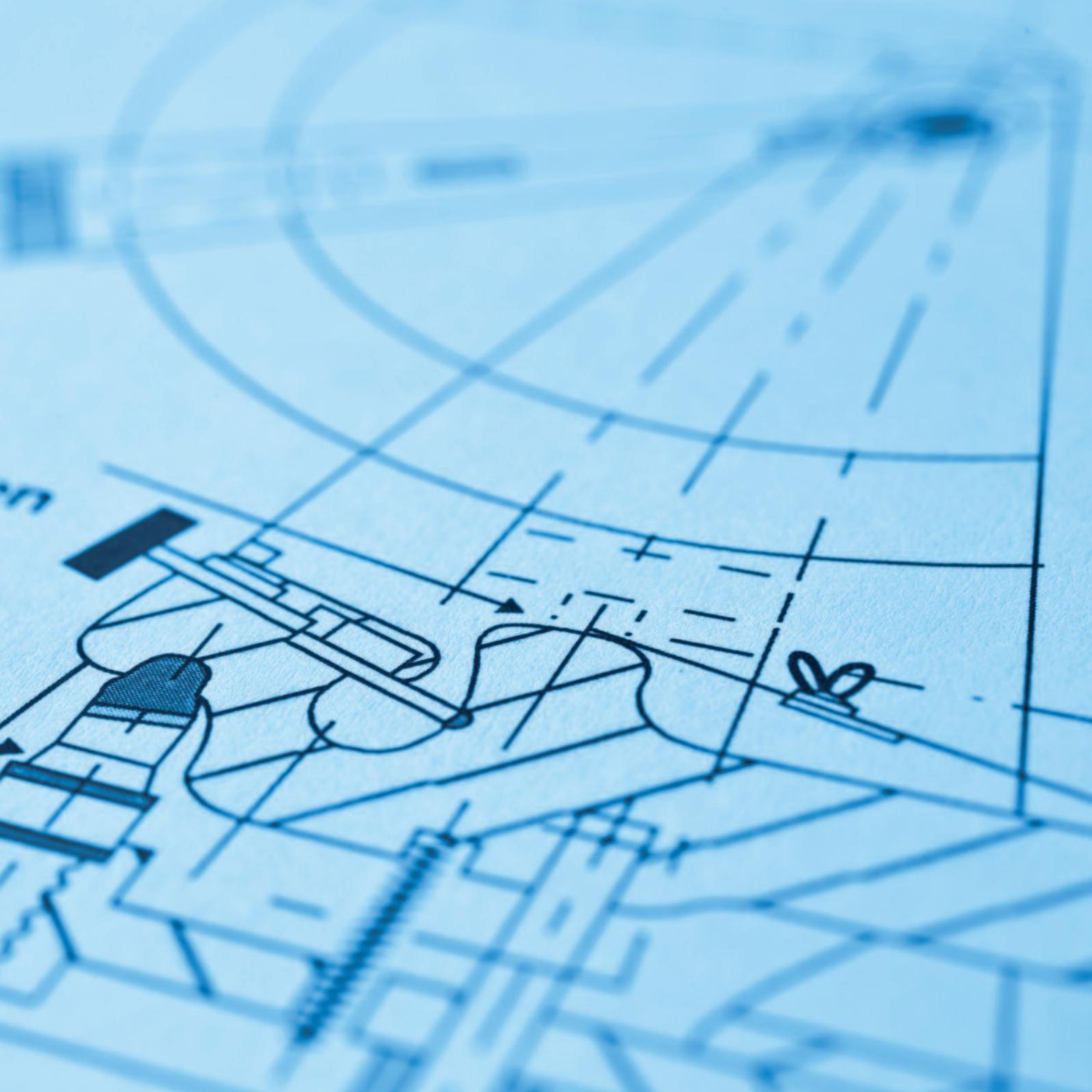
Our research programme focuses on developing innovative products, materials, test methods and test equipment which are used to

benefit the SATRA membership base. We also carry out research for individual companies on a funded and confidential basis.

The Pedatron, Endofoot and Slip Rig – test equipment used throughout the footwear industry – are all products of SATRA's research and development.

Every product – from outdoor and sports performance footwear to fashion and everyday shoes – can benefit from SATRA's technical facilities and the knowledge of our experts in Europe, the US and China.





SATRA test methods

With our global reach and specialist knowledge, it's not surprising that SATRA standards are the obvious choice for much of the footwear industry. Developed over many years, our test methods and protocols have become industry standards – recognised and used internationally by many major brands, sourcing companies and retailers.

Together with 'SATRA guidelines' – performance criteria to suit the end-use – these form the mainstay of much of SATRA's technical knowledge and set us apart from mainstream test houses.

Today, the need for all parties to be working to agreed and commonly recognised quality, performance and safety standards is greater than ever, and there is an increased demand for our test methods from manufacturers, suppliers and retailers.

There are currently around 250 SATRA test methods and we continue to develop new ones in response to the needs of our members. Our test methods are recognisable by the SATRA 'TM' prefix to a three digit number and year of issue.

Test results you can trust

SATRA has the most comprehensive footwear test laboratories in the world and the largest database of footwear test results. We are acknowledged as the leading authority on most aspects of footwear testing and have been at the forefront of developing and testing slip resistance properties for more than 30 years – the SATRA slip resistance test method TM144 has been recognised and adopted in the European EN 13287 standard and the ASTM F2913-11 standard.

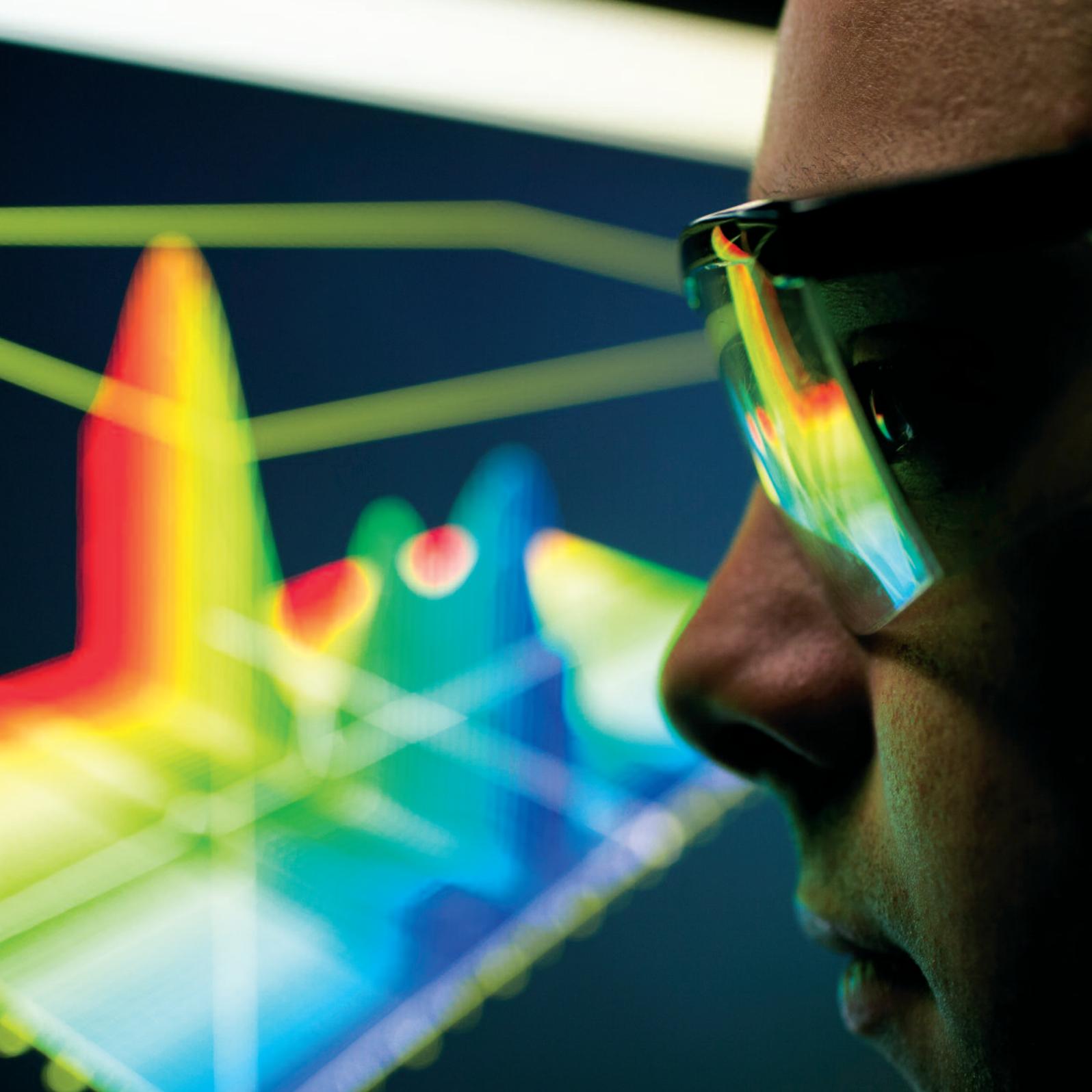
As well as slip resistance, our members turn to us to assess their footwear products for water resistance, durability, abrasion resistance, flex cracking resistance, sole bond adhesion, heel attachment, seam strength, strap strength,

suitability of materials, biomechanical evaluation, wear trials, contrived ageing and performance in extreme conditions.

As a European Notified Body for personal protective equipment (PPE), we can also assess and certify safety footwear to EN ISO 20345, 20346 and 20347 standards.

Our laboratories, testing and reporting procedures are accredited by UKAS, the UK National Accreditation Service, and SATRA test reports are acknowledged and respected worldwide.

Our subsidiary, SATRA Testing Technology Services (Dongguan) provides a physical test service to South East Asian countries and China.





Chemical testing

Globally, concern about the chemicals used in products is increasing, whether it's the possible harmful effects on wearers or the long-term impact on the environment.

Some substances have already been restricted based on evidence that they can cause harm when ingested, inhaled or in contact with the skin.

Others can cause harm to the environment long after a product has been used and discarded.

Some of these chemicals and substances may find their way into a wide range of materials, including textiles, plastics, rubbers and leathers used in footwear-related products.

To ensure products are safe, many countries have introduced restricted substances legislation with fines or even

imprisonment a consequence of serious breaches. Therefore, it is essential for manufacturers to be able to confirm their products are free from these substances.

SATRA can help. In our purpose-built chemical and analytical laboratory, we carry out a wide range of tests to ensure your products do not contain restricted substances. We also offer help and advice regarding the use of alternative materials.

Our expertise will ensure your products meet current legislation, including the European REACH regulation (Registration, Evaluation, Authorisation and Restriction of Chemicals) and the Consumer Product Safety Improvement Act (CPSIA) in the US.

The best in test equipment

We use our technical expertise to design and build the best test equipment available, and our catalogue lists more than 150 separate test equipment items.

No other test equipment provider has our range of equipment and level of in-house technical support to call upon. You can be reassured that SATRA test equipment is unique in having been fully trialled in our laboratories before being put on the market.

At SATRA, we are committed to developing high quality machines and

providing you with high levels of customer service and after care.

We continue to research and develop new test approaches, methods and machines, including developing machines to customer-specific requirements.

Benefits of purchasing SATRA test equipment include:

- brand recognition
- quality
- technical advice and training
- customer service.





Bringing SATRA to you

Being able to assess the performance of footwear and components is vital and many manufacturers find an in-house test facility to be invaluable – not only for convenience, but also as part of their marketing strategy. It demonstrates a serious commitment to providing quality products.

Hundreds of organisations – whether materials, components or finished product

suppliers – have turned to us for help and advice in setting up their own testing facilities as part of the SATRA laboratory accreditation programme.

SATRA accredited laboratories can be found all over the world, in South America, USA, China, Asia and Europe. In many cases, an accredited laboratory is essential when working with large footwear brands.

Training solutions

The training provided to your employees can be critical when it comes to delivering good quality footwear consistently. Whether it's training in technical skills such as soling and fitting, how to use new technology, how to source the right products and use them efficiently, or how to design the next generation of footwear, your business will benefit.

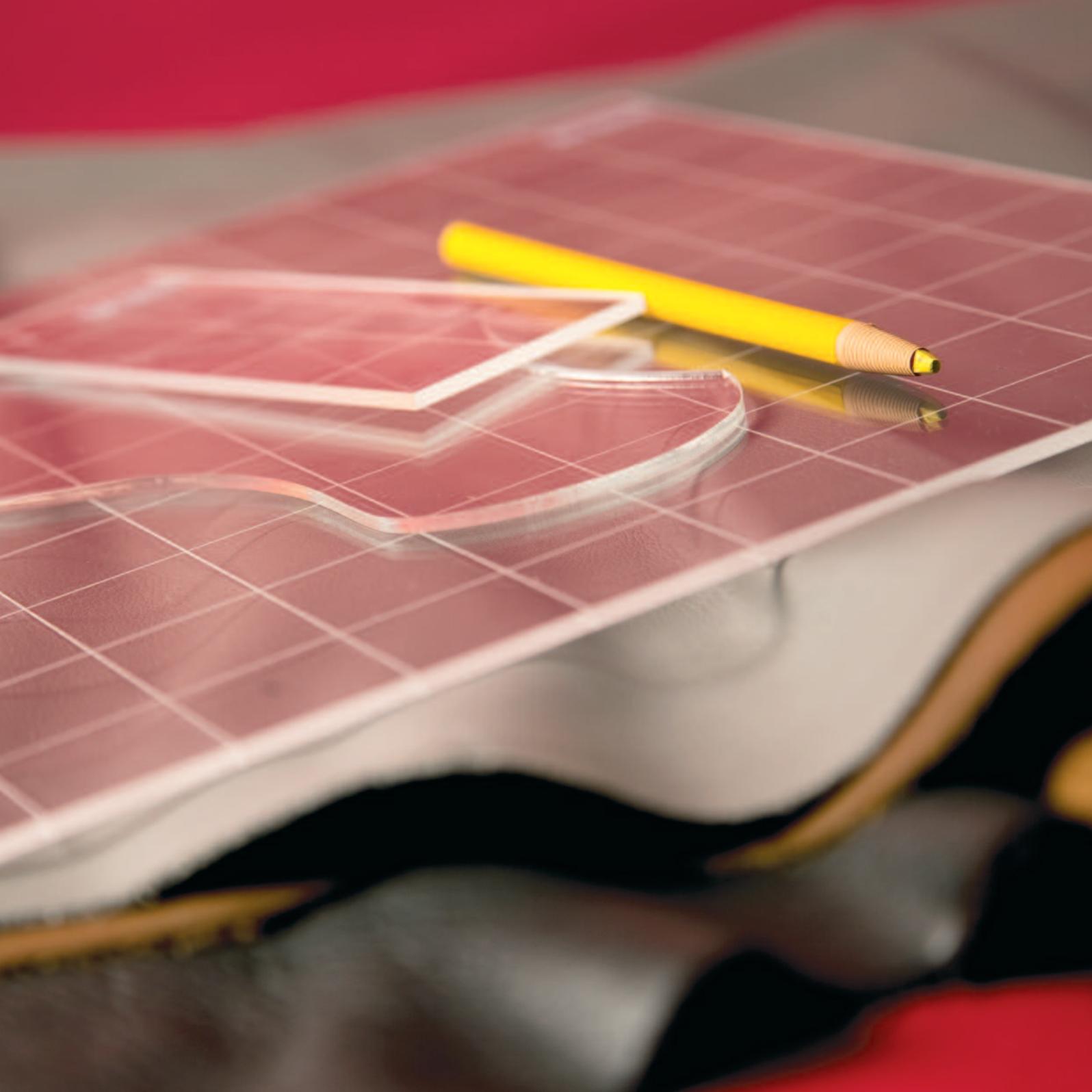
At SATRA, we offer a wide range of footwear-related training courses. These include an appreciation of basic shoemaking through to our SATRA Accredited Footwear Technologist (SAFT)

qualification for experienced technologists.

SATRA also provides more specific training for particular manufacturing processes and techniques. These courses are continually updated and enhanced to take into account the changing needs of industry, methods of manufacture and supply of footwear and relevant legislation.

All SATRA's training packages are designed to develop and enhance the skills and knowledge of personnel and are appropriate throughout the global supply chain.





Improving production efficiency

Manufacturers are always looking for ways to make footwear more efficiently. They are often under pressure to use materials more effectively, cut down on waste and pollution, and become more responsive by reducing the total process times.

SATRA management systems have been designed to help.

SATRASumm is the industry standard package for managing the efficient cutting of leather and synthetic materials. Designed to maximise the utilisation of cuttable upper material, train cutters in cutting techniques, calculate accurate allowances for the pattern shapes, provide targets for the cutting of production orders, and measure performance against these targets, SATRASumm

will reduce waste and save you money.

VisionStitch is a complete stitching improvement package for all stitching operations and is designed to improve productivity and quality. This unique real-time monitoring software uses visual displays to enable companies to optimise stitching machine settings, train new operators and improve the performance of experienced workers.

TimeLine is a system and training package that enables manufacturers to calculate the optimum time required to carry out virtually any shoemaking operation and, therefore, the direct labour cost. These times provide data for planning production, line balancing and machine utilisation requirements.

Main technical facilities

United Kingdom

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China

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