

# Our work touches billions of people's lives every day

From glasses and contact lenses to asthma inhalers, insulin pens and blood diagnostic devices. Our work can be found in products where extreme precision is vital. We believe that constantly pushing the envelope and delivering work of the highest possible quality is the key to making people all over the world healthier and happier.

With a drive for innovative solutions and unrivalled attention to detail and precision, we design, manufacture, qualify and maintain moulds for the healthcare, optical and packaging industries.

Discover our five-step process to producing a mould that meets your needs and requirements perfectly.

















When it comes to people's health, nothing but the very highest standard will do. At IGS, precision is our number one priority. Our qualification process is unmatched in its rigour and ensures your products will meet the market's strict regulatory requirements. We have a proven track record in the healthcare industry, producing the most complex components for a wide range of products. Our engineering experts offer creative solutions to complex design problems, making your product faster and more cost-effective to produce.



Contact lenses, spectacles, solar lenses, low-beam headlights, cell phones and LED components... As the only specialised optical tool maker in the world, our experience in the field of optics is wide and varied. Our tool shop features a unique collection of equipment and machinery focused on optics. Over decades, we have developed a meticulous approach to ensure all components can be reproduced exactly and are fully interchangeable.



## Packaging

From meeting strict medical standards, to delivering high cavitation moulds, or designing products with thin walls, two component parts or difficult shapes. Our team of world class experts thrives on challenge and is always looking for innovative solutions to enhance your bottom line.





## The Power of a Smart Design

Minimized risks, increased production speed and a lower cost price. Our engineers know how seemingly small adjustments can make a big impact on your bottom line. A smart product design is the key to efficient and optimized production of high quality products and devices. Our experts are ready to support you with our design for manufacturing expertise from the earliest stages of your product development.





We know exactly what small changes in the product design can drastically simplify the manufacturing process



#### Quotation and Design Study

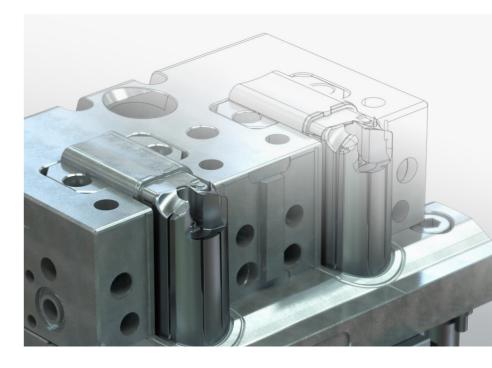
As part of our quotation, you will receive a 2D sketch of our proposed mould. A rough design that includes all essential components such as the split lines, cooling, hot runner and sliders. This design study gives you a clear picture of our plan and allows us to offer a tailored, detailed quotation.





#### The Brains and Guts to Innovate

As simple as possible, but as complex as needed. A good mould design meets all your needs and requirements in the most efficient way possible. Inspired by the capabilities of our tool shop, our world-class engineering department has the brains and the guts to find innovative solutions that allow for the perfect mould design.



#### Exactly Right and Fit for Purpose

To make sure the mould design is exactly what you need, we first create a preliminary design: a broad stroke, 3D representation of the proposed mould. Based on your feedback, we adjust this preliminary design and start engineering the final design. We make sure this final design meets all your specifications by running through a checklist together. From the cooling and O-rings to connector types and maintenance requirements. If necessary, we adjust the tool design and qualify it again until it is exactly right and fit for purpose.





## The Heart of Our Organisation

**Cutting edge technology and expertise.** We manufacture moulds of the highest quality using the latest insights and top-notch machinery in our lights out factory.

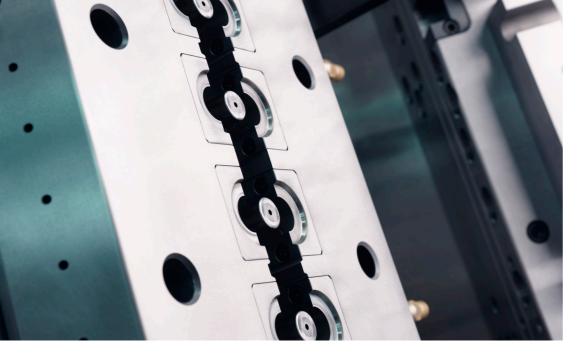


#### Tool Making

From solar power to smart industries and from healthcare technology to intelligent packaging. Our workshop produces components for the most advanced technological applications in the world. Under climate-controlled conditions, we use state-of-the-art equipment to craft steel parts that meet the highest specifications. CAM engineers program our machines during the day, so our robotised workshop can produce twenty-four hours a day. The mould components are then assembled by our highly skilled and experienced toolmakers.









### Finding the Perfect Settings

Our rigorous mould qualification process identifies the ideal settings to produce a product that meets your exact requirements. Having developed this process over decades, its thoroughness and accuracy are simply unmatched.





#### A Scientific Moulding Approach

From mould and nozzle temperature to filling speed and decompression. There are over 200 factors during the moulding process that influence the quality of your product. In a detailed step-by-step process, we identify the ideal settings for all these factors that create the highest quality product and the most efficient production process.



Finding the ideal setting by using an advanced version of pro-op



A proces window is defined by studying various levels of the key parameters



Checking the measurements of the product against Cpk and CtF values

#### Operational and Performance Qualification

The Operational Qualification can be performed on one of our moulding machines, but our customer service centre also features a number of secure validation cells that allow you to install your own machine. By using your own machine, the final Performance Qualification becomes a simple yet extensive check of the final process settings.





## Committed to Quality

From preventative maintenance and refurbishment to spare parts management. Our commitment to quality does not end after your mould leaves our workshop. We are ready to support you in any way necessary to ensure a smooth production process.



#### Our Vision of the Future: Smart Moulds

Imagine checking the status of your mould in an app on your computer or phone. Seeing all relevant performance indicators at a glance and knowing the exact right moment to plan maintenance. We are working hard to make this a reality. By installing sensors and making our moulds 'smart', maintenance and refurbishments will become more cost-effective and reliable than ever. Smart moulds will even allow us to offer you a total service contract, where we monitor your mould for you, plan frequent maintenance visits and extend the shot warranty up to 10 million shots.



