

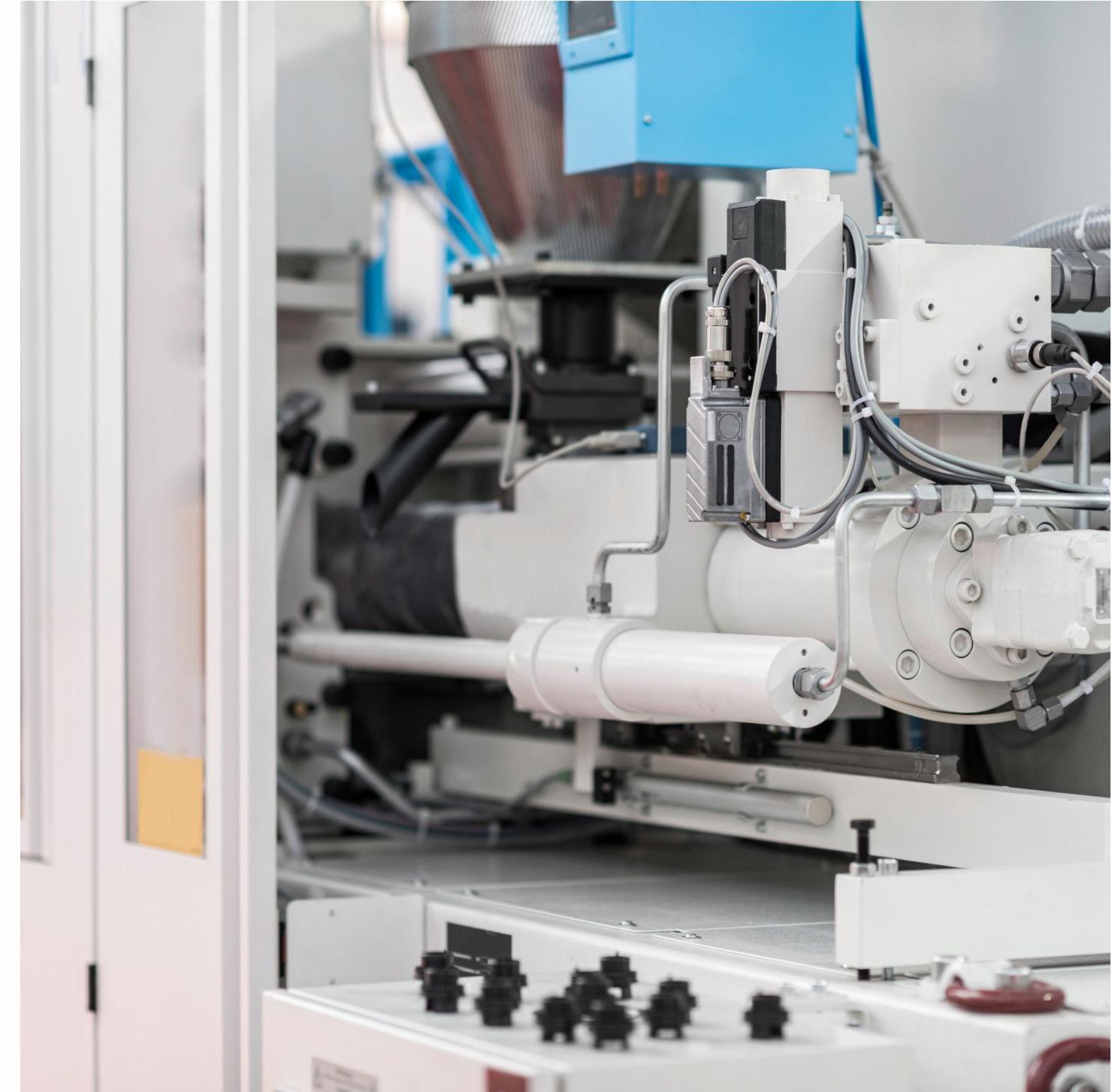


ASTON NETWORKS MANUFACTURING

United Kingdom

South Africa

Australia & NZ



Bespoke Sustainable Engineering For The Fibre Optic Industry



About Us.....

In 2018, the three founders of Aston, with over 60 years of collective experience in the **Fibre Optic** industry, identified a significant demand for fresh, innovative, and cost-effective solutions to augment conventional approaches that were no longer keeping pace with the rapid developments in the industry.

Harnessing our extensive industry expertise, we combined it with our proficiency in design and manufacturing to establish a tailored and sustainable production facility with a global reach.

Our core competencies lie in the design, manufacturing, and sale of our proprietary products, and we stand ready to extend these capabilities to collaborate with you on your unique needs.



We Are Here To Bring You Solutions.....



Quick Turn Around times

With In-house 3D designers, we can bring a concept to life within a few days and present initial concepts via an interactive 3D rendering.

Scalability

Once we hit production, our factory uses the Theory of Constraints methodology to enable a high level of output, focus and scale to meet customer demands.

Focus on ingenuity

We encapsulate the creative application of technical knowledge to solve complex problems and innovate in unconventional ways

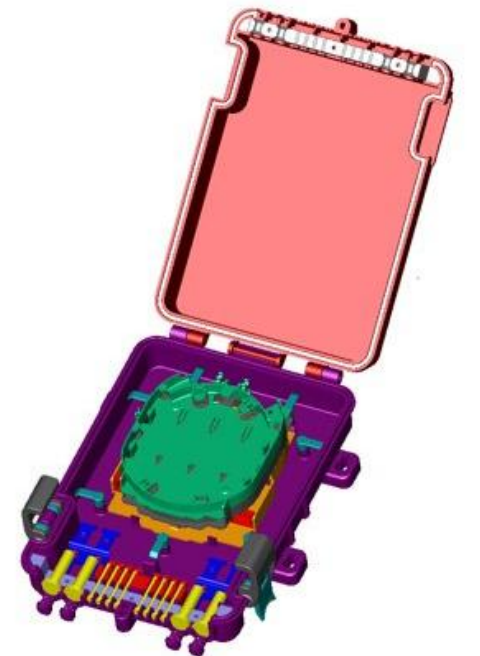
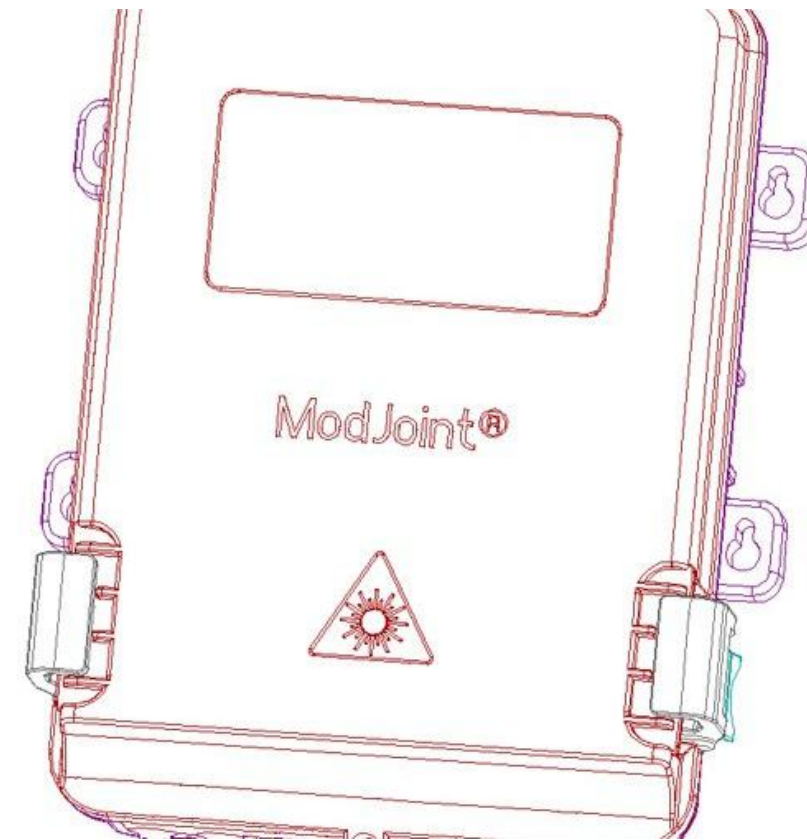
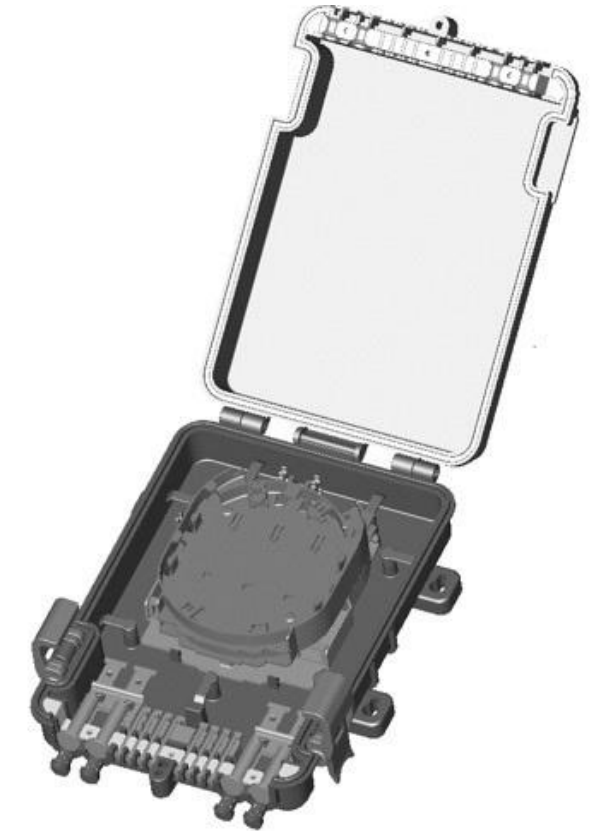
Quick to Market, Quick to Innovate

How we engage...

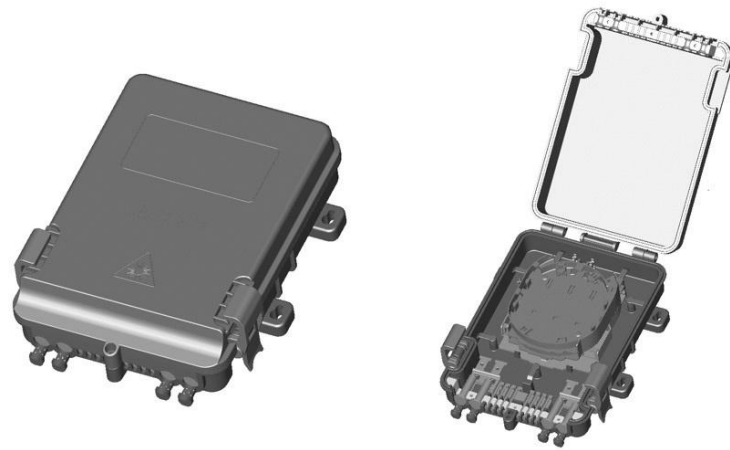
- **Meet** with and understand customer requirements, pain points and the spirit of the product (1 - 3 engagements)
- **Move** to initial 3D digital design and concept, present, suggest and refine (no longer than 2 weeks)
- **3D Print** sample of concept, prepare and present (1 - 2 Weeks)
- **Customer sign-off** and execute the mould block manufacturing (6 - 8 Weeks)
- **Moulds installed**, TOC assembly implemented and product ready for **Manufacture** (1 - 2 Weeks)



Vision to Hand within 12 weeks

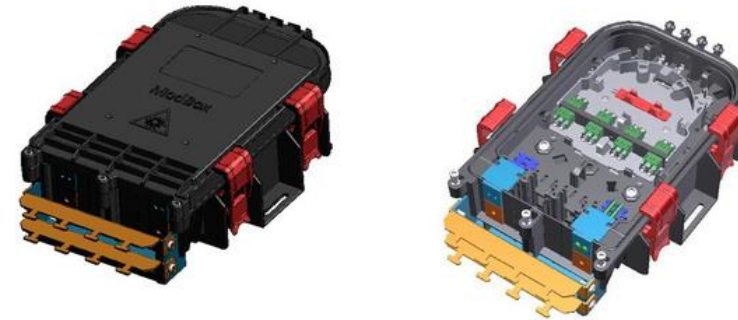


Current Product Range



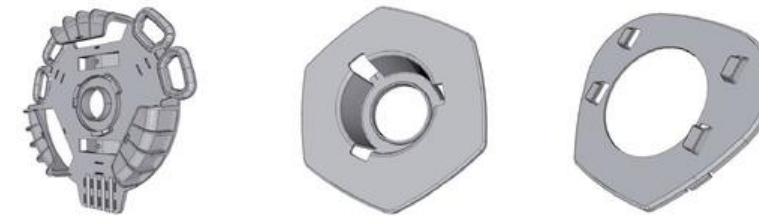
MODJOINT

72 Fibres, 3 Splitters,
Pre-terminated drops
IP68



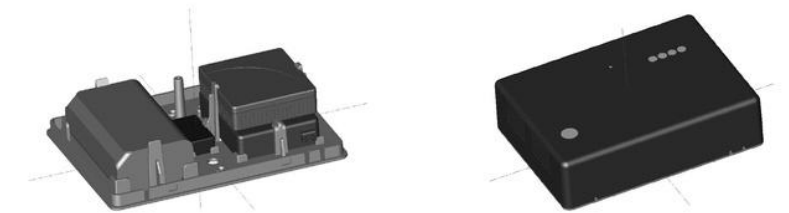
MODBOX

144 Fibres, 4 Splitters,
Pre-Terminated Drops
IP68



RADS STORAGE REEL

Cable Management for
Aerial Deployments (WIP)
2 in 2 out, 8 Drops



HOME CONNECT BOX

Houses a UPS and an
ONT for a neat customer
connection (WIP)

LOTS MORE PLANNED FOR 2024..... And beyond

Products in Development



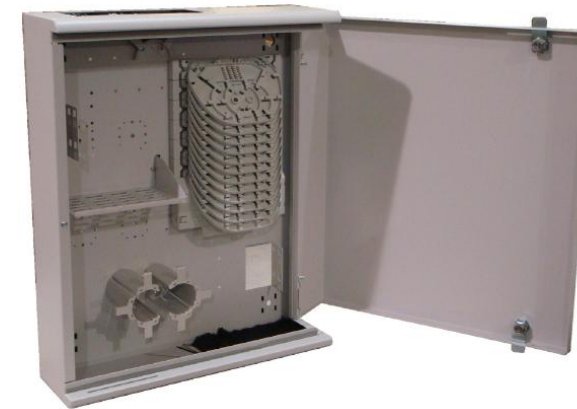
Small Dome Joint

48 Fibres, 3 Splitters,
Pre-terminated drops
IP68



Medium/ Large Dome

144/288 Fibres, 4/8 Splitters,
Pre-Terminated Drops
IP68



Indoor Wall Box (MDU)

12-144 Fibres, Splitters,
Pre-Terminated Options



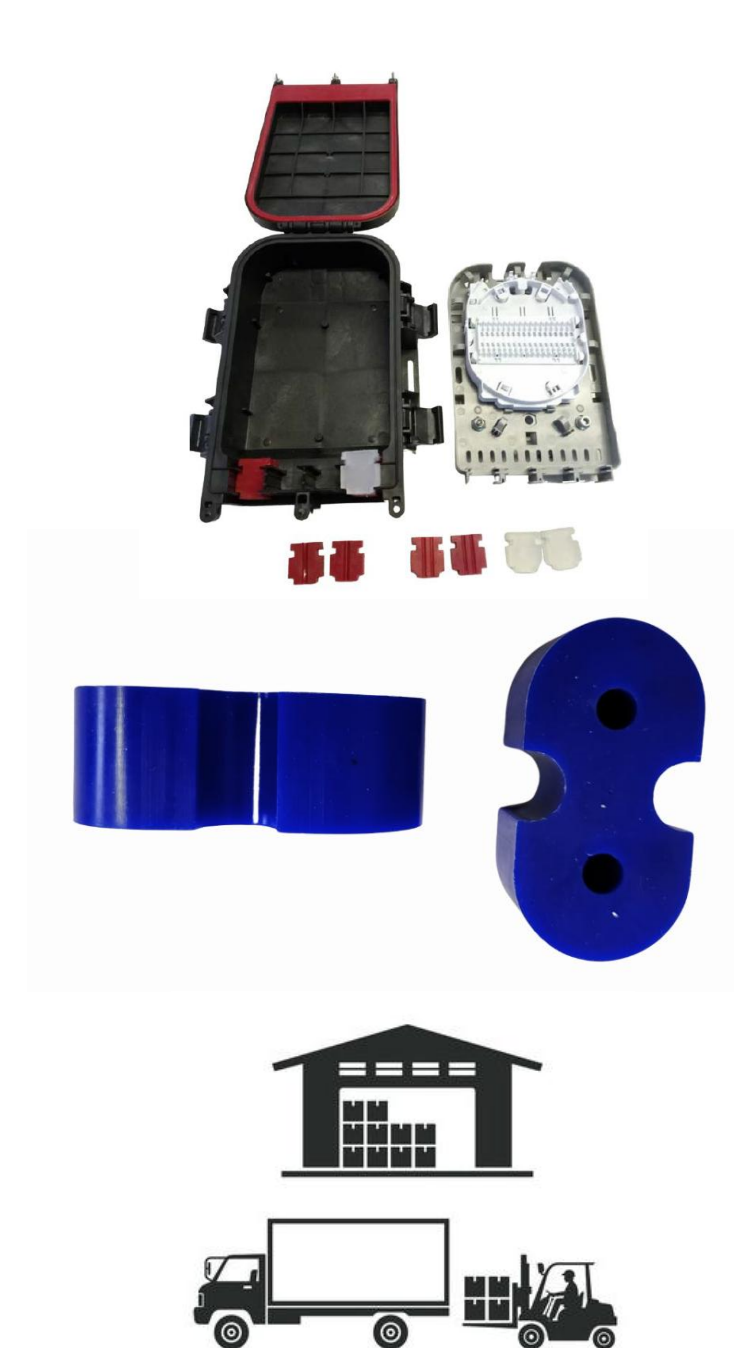
Manholes/Handholes

Small, 400mm Sq
Large 600mm Round & Deep

More to Come in 2024 and beyond.....

Manufacturing Capacities

- Our Current Capacities allow for 30,000 finished products per month
- This equates to 200,000 Individual pieces per month
- Factory Upgrades scheduled for Q3 2024 will double our output
- Seal Plant upgrades scheduled Q4 2024
- Secondary Plant Scheduled Mid 2025 – This will double our capacity

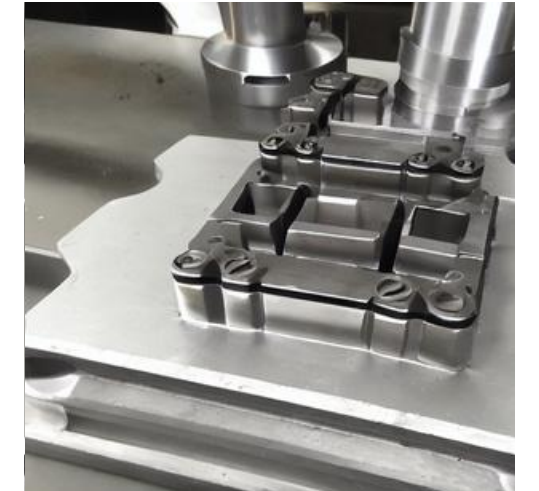


Manufacturing Process

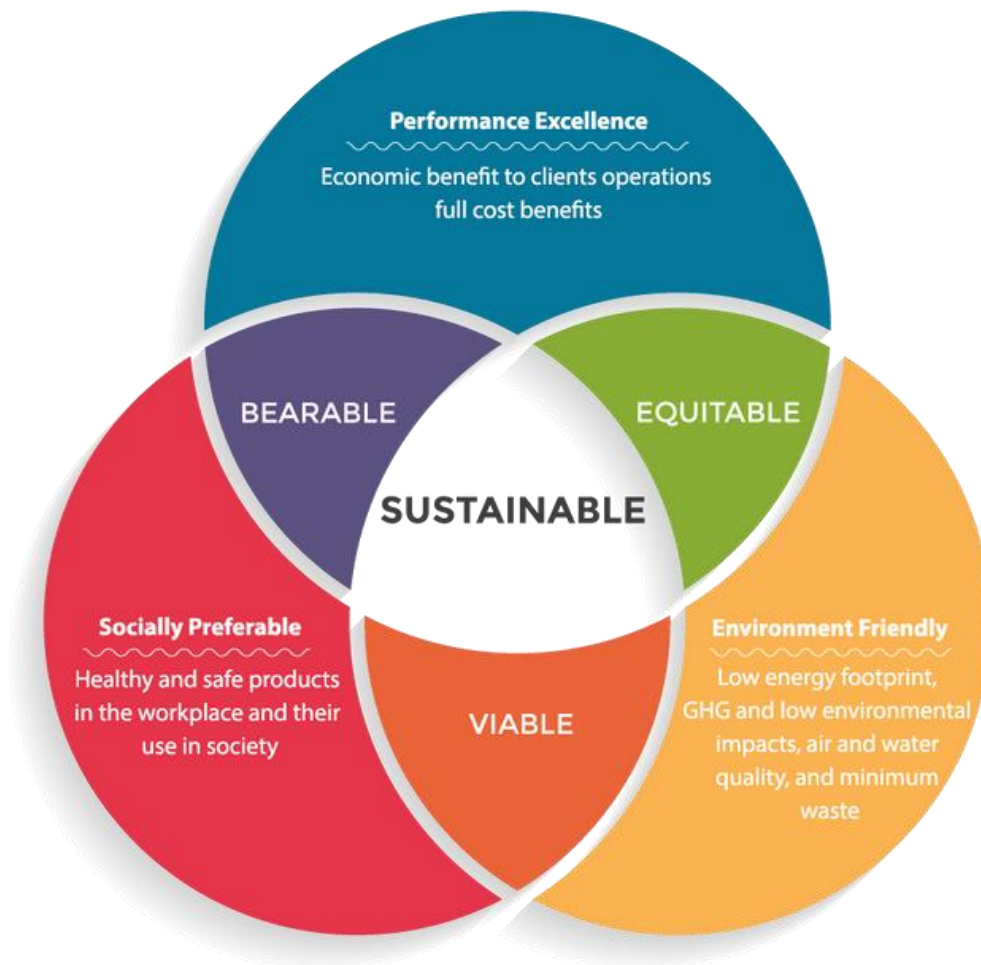


Injection moulding offers several huge advantages, including high production rates, precise control over part dimensions, and the ability to create complex shapes with consistent quality.

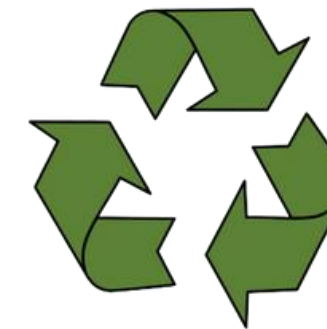
- **Material Selection:** The process begins by selecting the appropriate raw material, usually in the form of pellets or granules. Common materials include various types of plastics, such as polyethylene, polystyrene, or polypropylene.
- **Melting:** The selected material is fed into a heated barrel of an injection molding machine. Inside the barrel, the pellets are gradually heated to their melting point, forming a viscous molten liquid.
- **Injection:** Once the material is molten and homogenized, it's injected into a mould cavity under high pressure. The mould is typically made of two halves, and the molten material fills the cavity to take the shape of the desired product.
- **Cooling:** After the mould cavity is filled, the molten material is allowed to cool and solidify within the mould. Cooling can be accelerated using cooling channels or other methods to maintain efficiency in production.
- **Ejection:** Once the material has solidified, the mould opens, and the newly formed part is ejected from the mould cavity. This step can involve automatic ejection mechanisms or manual removal, depending on the complexity of the part.
- **Finishing:** Post-processing steps might be necessary, such as trimming excess material, adding surface finishes, or performing additional treatments to achieve the desired final product.



Not All Plastics are Bad



**ECO-FRIENDLY DESIGNS
FOR A
SUSTAINABLE WORLD**



Using recycled cardboard for packaging helps in reducing waste, conserving resources, and minimising the environmental impact of manufacturing processes. Additionally, it promotes a circular economy by giving new life to materials that might otherwise be discarded

Quality Control...



Manufacturing quality and control systems are essential components to our production process. They ensure that our products meet specific standards, are consistent in quality, and comply with regulatory requirements



1. Quality Management Systems (QMS)
2. Quality Control (QC)
3. Statistical Process Control (SPC)
4. Lean Manufacturing
5. Total Quality Management (TQM)
6. Automated Inspection Systems
7. Documentation and Standard Operating Procedures (SOPs)
8. Corrective and Preventive Actions (CAPA)



By integrating these systems and practices into our manufacturing processes, we achieve a higher product quality, reduce waste and rework, enhance customer satisfaction, and ensure compliance with industry standards and regulations.



Who We Work With.....



Targeted Territories for 2024 and beyond

Israel
DRC
Zambia
Kenya
Europe & Scandinavia
Middle-East



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