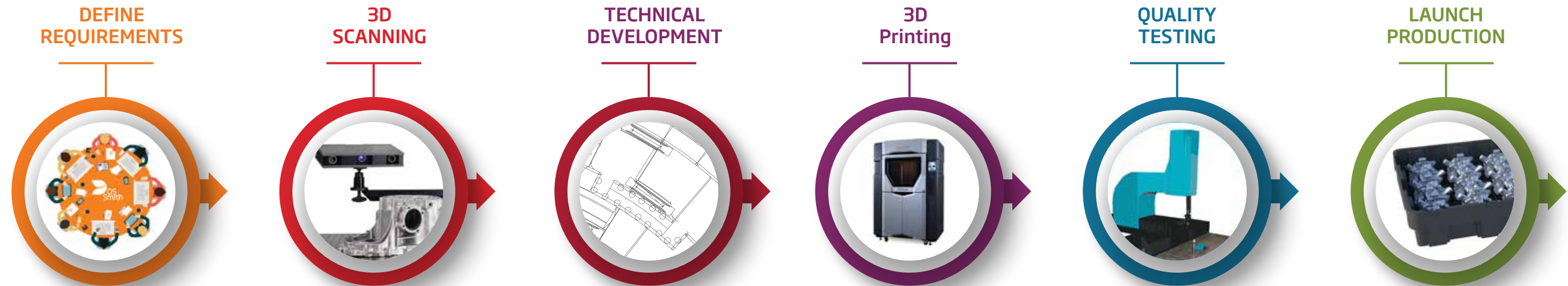




Automotive
Injection Moulded
Returnable Transport Packaging

Our Customized Automotive Packaging Development Process



Our team of experienced professionals works closely with automotive clients to evaluate and define all technical requirements and optimize the design for a durable and reusable packaging solution, up to the finest details.

DS Smith Injection Moulded Products uses the latest techniques and state-of-the-art software to scan your product and develop the packaging. At any time during the process, we can offer our customers 3D printed prototypes in a short timeframe.

To ensure the product meets our quality level standards that can guarantee a long life-cycle, we conduct a series of performance tests. On the basis of the final approved design of the end product, our technical designer creates a DFM design (Design For Manufacturing). This design guarantees that the product will comply with our quality standards.

Based on the design and a solid technical specifications manual a team of specialists will decide on the mould's final shape. When the product meets all the specifications, the product is ready to be launched on our state-of-the-art injection moulding machines.

Reusable Trays with Dunnages

Toyota looked for a bespoke solution to handle and transport delicate parts such as oil pumps.

Our approach: A customized returnable tray with dunnages that combines the primary and secondary packaging and is perfectly stackable and nestable.

The result: The customized trays are rigid enough to be used without a secondary packaging. The trays keep the products in the exact same position, which make them suitable for automated handling systems. The stackability allows two to six layers of trays, depending on how many parts are needed. When empty and turned 180° horizontally, they become nestable, reducing 50% of warehouse space and optimizing full truck load.

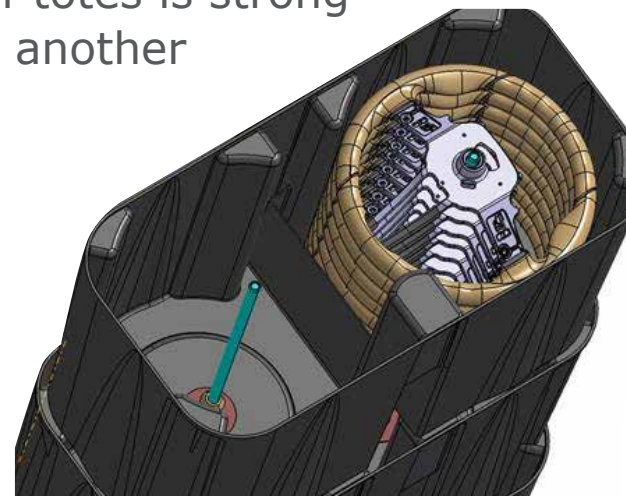


Reusable Totes for Steering Wheels

A leading tier-one supplier was in search of a returnable packaging to transport steering wheels to keep them in the right position during transport, and prevent damage from friction. The tote needed to be stackable and nestable when empty.

Our approach: A reusable plastic tote with two nests for two piles of eight steering wheels each, with a spear to be screwed in the internal socket to guarantee the perfect positioning of the steering wheels.

The result: The product stays perfectly safe during long distance transport. The ergonomic designed totes allow easy handling at the assembly lines. Optimal truck load as a pile of totes is strong enough to hold another pallet.



Reusable Pallets for the Total Supply Chain

Pallets in the Automotive industry need to be lightweight and rigid enough to transport heavy automotive parts. Injection moulded plastic pallets offer more flexibility and product safety thanks to a fork lift access on all four sides. The reinforced corners protect the pallets against fork lift impact and during transport. Thanks to the customized inserts, the pallets have good visibility in the dark, offering the fork lift driver better visual orientation. The hygienic washable plastic doesn't require the HT (heat treatment) certificate for overseas transport.





Sustainability

The world is changing. Environmental awareness of sustainable packaging is higher than ever before. To improve resource efficiency and to reduce the environmental impact of waste, waste prevention is the most efficient way to respond to these global trends.

Returnable and reusable injection moulded packaging produces zero waste as it is 100% reusable and 100% recyclable after its useful long life.

Today, the technique exists to produce injection moulded packaging from 100% post-consumer material that meets all rigidity specifications to ensure durability and robustness.



Responding to current challenges in the Automotive Industry

To bring lean manufacturing to the next level, the automotive industry is continuously improving systems to bring components and parts to the production line. Injection moulded customized packaging is ideal for the shipping of auto parts and automated handling systems. The packaging works perfectly in terms of housing, orientation and protection. The interstackable trays allow to have different layers, depending on how many parts are needed that day, greatly increasing the flexibility of the parts usage and reducing stock at the assembly line. Because the parts are delivered to the production line in the right quantities, it has a direct impact on productivity, as it avoids displacements, improves the indexes and eliminates uncertainty about the stock.

DS Smith Plastics

With more than 45 years of experience, DS Smith Plastics serves its customers from more than 25 facilities in 12 countries in Europe, North America, Asia and the Australasia region.

As a seamless international supplier, we supply products and services anywhere in the world.

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