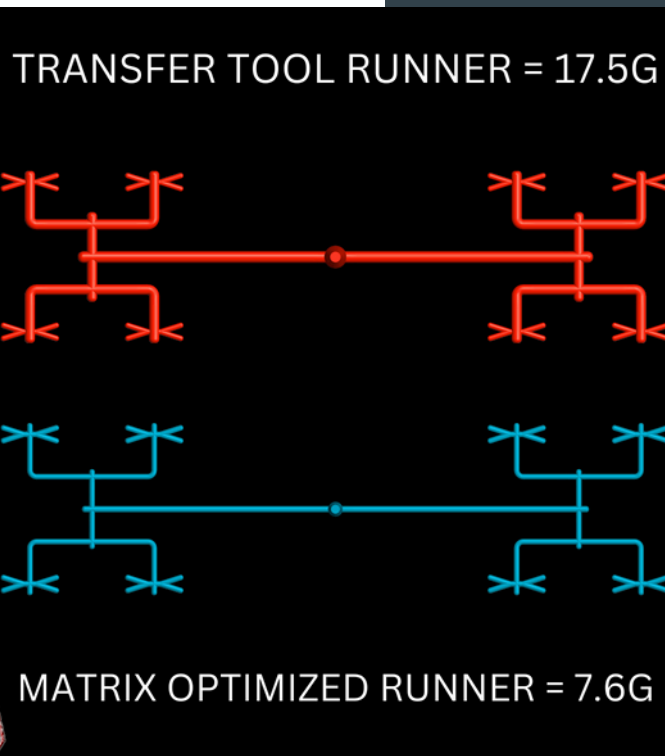




TURNING WASTE INTO OPPORTUNITY

50+ Years Manufacturing Molds, Components, and Partnerships.

SOLVING YOUR TOUGHEST TOOLING AND MOLDING CHALLENGES



SUMMARY

An automotive component manufacturer faced significant material waste challenges with a 16-cavity injection mold, producing 24 million components annually. Built and managed by an external vendor, rising cost pressures created an immediate opportunity for significant cost savings. Recognizing Matrix’s full-service expertise and extensive experience with high-volume production, this particular customer sought our assistance. Utilizing in-house Moldflow capabilities, we proposed a creative runner downsizing project that minimized waste while improving production efficiency. After transferring the tool to Matrix, we conducted a thorough evaluation and quickly implemented the necessary runner modifications, completing all tooling activities within a one-week timeframe. In fact, the tool was back in production and fulfilling orders in just under two weeks, resulting in a substantial **57% reduction in resin waste**. This solution not only addressed our customer’s immediate needs but also positioned them for long-term recurring savings in a competitive automotive market.

Material Savings

We optimized the runner layout, reducing material waste by **57%**, which resulted in substantial cost savings of **\$465,000** from a minimal investment of **\$8,500**.

Cycle Time and Throughput

By properly sizing the runner and optimizing the molding process, significant cycle time reductions were achieved while improving shot-to-shot repeatability.

We also offered a unique, Matrix-designed layout for an all-new 16-cavity tooling solution that would provide double the throughput and further increase the material savings to **\$785,000**. **Maximize your cost savings today – [Contact us!](#)**

Increased Capabilities

Partnering with Matrix provides our customers with access to advanced molding and tooling techniques, material expertise and innovative approaches that generally are not currently available within their existing supply chain. These benefits often result in faster time-to-market, improved manufacturability / part quality and less risk for our customers.

Full-Service Precision Tooling and Advanced Injection Molding Partner

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