



Aluminum Die Casting

Working closely with a processor of new process technology, Royal has become accustomed to engineering and manufacturing customized tooling to suite their equipment specifications. We experimented and developed insert finishes that exceeded the rigorous production requirements necessary to withstand the high temperatures inherent in this process.

Tight tolerance moulding for critical features has given Royal and advantage in the sense that we have again spent numerous hours assessing and evaluating finished product results which we reversed back into our engineering to formulate and generate the optimum tool construction and interchangeability within our designs to satisfy the strictest tolerance requirements.

Multiple side core mechanisms and designs in very complex tooling conditions has driven Royal to explore new 3-D machining technologies in order to achieve the required results to satisfy the numerous complex features designed into some extremely complex aluminum castings.

By applying specialty coatings such as melonite to the main shot sleeves and other high wear components we have been able to increase the life longevity of these components thus yielding more production, less down time all contributing to increased production and overall cost savings.