



Zinc Die Casting

Royal has become accustomed to engineering and manufacturing customized tooling to specific customer equipment specifications. Side core surface detail and finish requirements have driven Royal to be very innovative in its approach to sophisticated and challenging designs.

Large lifters necessary to form moulding surface and runner geometry in certain critical features posed some unconventional design concepts that has provided Royal with tooling technology that was thought to be unachievable due to the nature of the casting process. With continuous development and experimental related machining trials, we proved out that what was unconventional in the past was not the case with the current advancement in technologies that Royal has acquired.

Royal has participated in challenging applications where the orientation of the moulded part was such that the parting line and ejector system had to be tilted at a 7 degree angle due to the fact that the moulding cavity had a severe under-cut condition which would not eject with conventional methods.

Our approach to zinc tools is such that being closely involved and supplying tooling solutions to this industry over the past decade has given us the wealth of experience and knowledge necessary to tackle and handle virtually any and all types of requirements related to this process.