**Diffusion Bonding Technology**

A solid-state joining technique for making mould insert with conformal cooling channel under a vacuum condition.

**Benefits**

* Enhance the cooling performance of mould
* Enhance dimensional accuracy and quality of plastic injection parts
* Shorten the overall injection moulding cycle
* Reduce the overall investment in duplicating plastic injection moulds
* Produce a part with conformal cooling channel that could not be manufactured by traditional machining method

**Our Scope of Services**

* Technical evaluation on mould design for identifying the application areas of diffusion bonding
* Technical design input for mould insert with conformal cooling channel
* CAE analysis for conformal cooling channel design in mould insert
* Diffusion bonding service for fabrication of mould insert with conformal cooling channel
* Technical support for plastic injection moulding process parameter setting
* Optimisation for the fabricated mould insert with conformal cooling channel
* Join solid blocks of metal or ceramic for fabrication of part for different industrial applications

**Our Competency**

* State-of-the-art diffusion bonding facility with skillful CAE analysis professionals
* Extensive technical knowledge of identifying and evaluating the application areas of diffusion bonding
* Hands on experience in mold insert design and fabrication with complicated conformal cooling channel
* Substantive support in plastic injection moulding process parameter setting and optimisation

**Contact us**

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