

Machining of complex sculptured surfaces

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Abstrak

The machining of complex sculptured surfaces is a global technological topic, in modern manufacturing with relevance in both industrialized and emerging in countries, particularly within the moulds and dies sector whose applications include highly technological industries such as the automotive and aircraft industry. Machining of complex sculptured surfaces considers new approaches to the manufacture of moulds and dies within these industries. The traditional technology employed in the manufacture of moulds and dies combined conventional milling and electro-discharge machining (EDM) but this has been replaced with high-speed milling (HSM) which has been applied in roughing, semi-finishing and finishing of moulds and dies with great success.

Machining of complex sculptured surfaces provides recent information on machining of complex sculptured surfaces including modern CAM systems and process planning for three and five axis machining as well as explanations of the advantages of HSM over traditional methods ranging from work piece precision and roughness to manual polishing following machining operations.