

Abstract

The turnover from seller- to buyer-driven markets and the individualization in demand led to an enormous increase in the complexity of product and process in internal company practice. That is why the management of complexity has become to a crucial and effective factor for the success of nearly every modern company in the industrial business.

The basis for a goal-directed management of complexity is a model in which the whole company business and information can be illustrated completely. Then the model is optimized by using complexity judging criterions.

The present thesis expands the method of an Integrated Process And Data Model to document the product and process data as well as their interdependences in a complete way. As a result of the complete model, the process oriented integration of cost information gives a new and general approach of valued management in change along the whole product creation process. By using prognostic and analyzing considerations substantiated information are available for all process involved persons to optimize the model in regard to its effect on complexity.

Therefore, the strategically foundation stone of an extensive and process-accompanying management in complexity is laid.