

Presse Info

Retooling For Cubings

Test and function cubings serve car manufacturers for function checks as well as for evaluation of design and fitting accuracy. Pilot series work pieces are mounted, examined and improved until they reach series condition.

Conventionally cubings are often cast in aluminum or steel and are very difficult to change as well as being very heavy. Adaptations to cubings for model changes are often difficult, time consuming and costly, usually involving the return of the cubing to the original manufacturer, who may be thousands of kilometers away. Because of the cost involved in changing an existing cubing usually, even for a face lift, a new cubing is purchased. On top of that when a model is discontinued there is no further use for a cast cubing, which is then either stored or scrapped.

In order to save time and cost nowadays many car manufacturers have started to use modular fixturing methods. Above all the advantages are that model changes can be better catered for and re-use of all standard individual components for other models is possible. In some cases more than one model can be analysed on one basic frame simply by using exchangeable supports.

Witte Bleckede, manufacturer of Alufix and Aluquick modular fixturing systems, specialists for all kinds of measuring fixtures, meisterbocks etc. have extended their production to include modular cubings. The typical characteristics of Witte systems like highly accurate, versatile and lightweight elements have proven to be particularly advantageous. Effects include not only shorter production times but also the possibility to change the cubing corresponding to model changes.

Basic frames of modular cubings are assembled using standard profiles and components of Alufix and/or Aluquick fixturing systems. Already in the design phase substantial time savings result compared with conventional cast structures. The workpiece supports, are mounted in grid and the contact points and cubing elements as a whole can be adjusted in a small range in X, Y and Z. Since the modular profiles are only screwed, no further joining processes such as welding, sticking or riveting are necessary. Thus an almost 100 percent reusability of basic frames and adapters is achieved. For model changes only the milled outline or surface models as well as any necessary individual profiles of the basic frame are exchanged. Therefore a modular cubing can be adapted again and again to new applications for an unlimited period.

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Photos

The basic frame of this modular cubing was assembled by standard profiles and components of Alufix fixturing system. Already in the design phase substantial time savings result compared with conventional cast structures.



Photo cubing 1

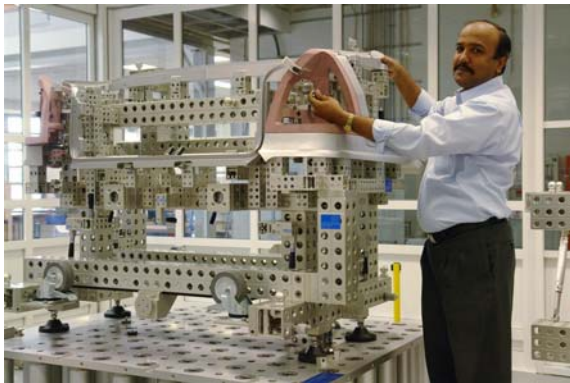


Photo cubing 2



Photo cubing 3

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