

New Model Range „Active Mold“:

CNC Machining System for Large-volume Mould Making

vhf camufacture AG has developed a completely new CNC machining system on the basis of their popular Active Pro line. It is especially suitable for three dimensionally milling large blocks. As its name already indicates, the main field of application of the new Active Mold model range is mould making. In order to machine very high objects, the mounting area has been moved far to the ground and the machine construction has been additionally reinforced.

The Active Mold systems are ideal for rapid prototyping and mould making where all kinds of voluminous objects of styrofoam, plastics, model making materials, wood or aluminium have to be machined. The possibilities here are manifold: one can make functional or illustrative models in the design phase of a product and casting moulds for the serial production. Last but not least one can also make individually designed assembly parts.

Due to an especially stable framework construction of high-tensile aluminium profiles with numerous crossbars and many stand supports, the load will be evenly spread. So it is possible to load workpieces with very high weight onto the Active Mold systems. Depending on their condition, the workpieces either can be directly fixed or the crossbars can be covered with an additional mounting surface. This may be a T-slot table on which one can mount clamping devices for fixing the workpiece, but a vacuum table would be possible, too. The open construction of the system and the little height of the workpiece support make it easy to exchange workpieces.

The system size is variable and can thus be adapted quite exactly to the workpiece size. The positioning range in x direction can be chosen from 1,020 mm to 2,520 mm in steps of 500 mm, the positioning range in y direction can be chosen from 1,600 mm to 8,200 mm in steps of 1,100 mm.

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The z axis lift amounts to 700 mm with a passage height of 1,000 mm. However, other sizes are possible. The repetition accuracy of +/- 5/100 mm in x and y direction is quite high for a machine of such size; in z direction it is even 1/100 mm. This ensures a precise machining of the CAD data.

Jörn Vogt M. A.

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Photos

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CAM 2060 Active Mold: x/y positioning range 2,020 x 6,000 mm, z axis lift 700 mm, passage height of the bridge 1,000 mm

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The stable framework construction of aluminium profiles with an edge length of 100 mm allows to load heavy work-pieces and a low-vibration operation

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