

Completely newly designed

The Gantry-portal milling machine PFGA X-32

The high-speed aluminum processing found in aeronautic and space applications requires constant optimization of the manufacturing process. At the center of focus for this is, along with the actual processing speed, an ever increasing processing complexity. Growing product demands result in requirements for, for example, reduced tolerances or improved surface qualities.

The Gantry-Portal milling machine PFGA X-32 is a completely new designed, modularly constructed machine tool which has been especially conceived for this area, according to the manufacturer. One of the advantages of this modular system can be seen in maintenance.



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The Gantry-portal milling machine PFGA X-32 can be equipped with up to eight separate spindles, each of which has a performance of 32 kW in continuous operation. This allows for the simultaneous processing of eight parts. Two separate part clamping areas on the machine table guarantee parallel primary processing and thus a reduction of down time. Clearance-free preloaded drive elements and high performance servo transmission motors in the feed axes guarantee optimal conditions for chip removal during both rough and fine processing. All guidance and feeding elements are amply dimensioned to guarantee high accuracy over a long term even with large machine loads, the supplier says.

The machine can also be used for processing large steel and cast parts without mechanical changes, because the speed range can be adjusted with an automatic transmission.

The machine can be provided with an automatic tool changer, which can change the tools from up to eight spindle bins at the same time. This provides for the possibility of moveable or stationary installation with the portal on the end of the table.

An automatic vacuum plant, along with a high-performance chip conveyor, ensures for a smooth evacuation of the large amount of chips that are created.

Thanks to the modular system of the machine, integrating available frame parts is possible. Older heavy roughing machines often have very solid frame construction groups made of cast iron. If a customer has, for example, a used portal miller or planer, the stands, bed or table groups can be integrated in the new machine. This results in a significant savings effect. The suitability of available construction groups should be checked during the offer phase.



The PFGA X-32 milling machine for high-speed aluminum processing is modularly designed and hence easily to be maintained.