

Press Release

April 25, 2011

FIBROMAX Heavy-Duty Rotary Tables:

Positioning Loads over 400 Tons Is Child's Play

Heavyweight cast and welded workpieces for wind power plants, roller bearings, turbines, ship building, gear cases, or construction machines are a challenge for machine tools. Rotary displacement tables for XXL parts must be both precise and powerful. Rotary table specialist FIBRO of Weinsberg has been consistently expanding its competence in heavy-duty tables over the years and now has an increasing demand in this area.

Tables for workpiece sizes of 4 x 4 metres and weights of several hundred tons per part are now standard at FIBRO. "The trend is going towards larger parts and thus larger and more highly loadable rotary tables," Stefan Gaschik, Director of Sales at FIBRO, says. "In the meantime, we are talking more and more about transport loads of more than 400 tons that have to be aligned quickly and with high precision in the case of heavy-duty tables." In the process, the heavy-duty tables of FIBRO work with a positioning accuracy of +/- 2 angle seconds. The true-running precision lies in a range of a few hundredths of a millimetre.

A large, highly precise roller bearing of the table top permits a high degree of accuracy, even in case of large workpieces. In contrast with a hydrostatic bearing, the table top of FIBROMAX is not lifted and heat is not lost. Without a cooling unit, the workpieces can thus be processed in an energy-efficient and highly precise manner. In case of a power failure, the bearing function is retained to an unlimited degree.

Ideal for circular milling and simultaneous machining

The FIBROMAX NC rotary and rotary-linear tables are perfectly equipped for flexible positioning and the circular and simultaneous multi-axis machining of heavy loads. The large maintenance-free roller bearing thus takes up both radial and axial forces. Together with the play-free twin drive, the heavy-duty rotary tables have ideal prerequisites for circular milling and simultaneous machining. When in a positioned state, a hydraulic table top clamp increases the tangential torque and relieves the gear. In addition, the entire system is enormously stiff and ensures an optimum flow of force from the table top through the bearing, the linear roller bearings, and linear bed to the foundation. A long service life is thus guaranteed at minimum maintenance effort and high process safety.

In the rotary-linear table combination, FIBROMAX makes a highly precise positioning possible, even in case of large, asymmetrical workpieces. During the milling of large workpieces, the linear displacement path is used as a very rigid additional axis. Whether as a separately mounted rotary displacement table in a lateral milling centre or as an integrated rotary table – the specific design of FIBROMAX by the competent FIBRO team gives users a high degree of flexibility and process security.

Info box:

FIBRO is the pioneer under the rotary table manufacturers and offers the world's most extensive rotary table programme from a single source with more than 150 types of rotary tables. The rotary tables are used as swiveling or positioning axes and as workpiece carriers in highly productive machine tools. The greatest possible standardization of the individual series makes FIBRO an interesting partner in regard to cost aspects as well. Numerous projects in various industries round the globe prove how strongly users profit from the high solution competence and worldwide service network of the rotary table specialists from Weinsberg.

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Captions

<p>FIBROMAX</p>	<p>Highly precise and high-powered: the heavy-duty rotary-linear table of FIBRO. FIBROMAX constantly deals with transport loads over 400 tons.</p>	
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