Linear motors with 22.5° radius extend range of system designs

**XTS: New motor modules for even more production flexibility**

With new motor modules, the high flexibility of the eXtended Transport System (XTS) has been increased yet again. The straight and curved motor modules (180°) are supplemented by new variants with a radius of 22.5°. They make new track geometries possible, such as full circles, inside or outside curves, or squares with rounded corners. The range of applications can now be further extended, for example, by a flexible rotary indexing table and individual track layouts.

The XTS linear transport system consists of modular linear motors with integrated power electronics and displacement measurement as well as 1 to n wireless movers and mechanical guide rails. The most diverse applications, geometries, lengths and radii can be implemented with these high performance components. The AT2020-0250 motor modules (+22.5°, outside curve) and AT2025-0250 (–22.5°, inside curve) greatly expand the possibilities of the XTS system with regard to track layouts. With a combination of different radii and straight sections, the track layout can be easily adapted to meet the broadest range of application requirements. Of course, matching guide rails are also available for the new motor modules.

The XTS offers the possibility to change products and formats and to implement small lot sizes in very little time, all without mechanical reconfiguration. Complex and expensive mechanical systems are replaced by flexible software functionalities. New areas of application which are possible with the new motor modules include:

- Full circle with movers running around the outside
- Full circle with movers running around the inside
- Polygon, circle segments connected with straight sections
- Step- and S-shaped track layouts
- Rounded-off rectangle with a freely selectable size

This results in a significant expansion in the range of XTS mechatronic system designs with regard to the application and the available installation space.

Further information:
www.beckhoff.com/XTS