

Application**Linear Motion****BRL/SPM 025 2006-09**

camoLINE

Flexible Building System with Highly Accurate Base Structure

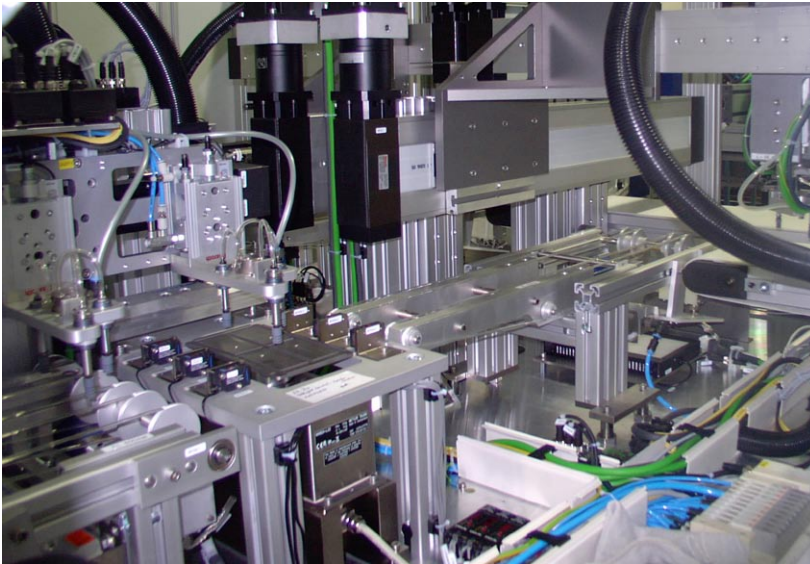


Fig. 1
Rexroth's camoLINE building system offers perfectly matched electric and pneumatic axes, innovative connection technology and profile struts.



Fig. 2
With positive-locking connectors, the Cartesian Motion building system achieves a level of accuracy in the supporting structure that could previously only be attained with custom-fabricated parts.

Application

Sector:	Machine construction
Plant/system:	Handling system for solar cell production line
Customer:	Sieghard Schiller GmbH & Co. KG, Sonnenbühl, Germany

Machine / Process

- Schiller uses 19 handling modules to link the processing stations of an inline production line for solar cells. The modules destack the delicate blanks, load and unload the workpieces at the individual processing stations, and stack them at the end of the line. Schiller has automated all of the handling modules, XY and XYZ portals with Rexroth's camoLINE system, using the entire range of profile struts, Compact Modules with belt or screw drives, and pneumatic components. The high flexibility that camoLINE offers enabled Schiller to adapt the design of the handling systems by simultaneous engineering to accommodate changes in customer specifications during the installation phase.

Customer requirements

- Highly accurate base structure
- Standardization of all components
- High design flexibility
- Easy mounting and start-up

Our solution

- camoLINE – the Cartesian Motion building system

Reasons for decision / Benefits

- High accuracy of the base structure thanks to positive-locking connection technology, saving up to 75 percent on parts fabrication
- Approximately 30 percent time saved during the design and build phases
- Perfectly matched interfaces and reduced installation and start-up effort
- High configuration flexibility
- Easy post-installation modification thanks to modular principle