

# item

## Press Release

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### Pure dynamism – linear motion for high load levels

(Dynamic Elements Line 12)

They have been on the market for nearly two years now – the heavy-duty profiles and system components in item's Line 12. During this time, they have made a name for themselves in numerous practical applications - after all, this product line represents a milestone in the development of the Building Kit System in terms of the load-bearing capacity of the profiles and the corresponding fastening techniques.

The next step was a logical one: item will be exhibiting and demonstrating various new components during the 2005 Hanover trade fair designed to complement automated constructions made with Line 12 as from the modular system.

For example, there is a Linear Guide of any required length which can be fitted to Profile Groove 12 and the corresponding carriage which runs on easy-running, high load-bearing rollers. The base version on its own can withstand load forces of up to 12,000 N for the duration of its lifetime. In this combination, the sturdy base construction of the profiles demonstrates good resistance to deflection through high moments of inertia.

item now provide a drive unit for the carriage, using a timing belt drive, which provides adequate tensile force even for such heavy loadings. The 75 mm wide belt with its AT profile, in conjunction with the new Timing-Belt Reverse Unit 12 R75, provides a drive concept with a high degree of dependability. It has been designed to provide a sufficient margin of strength even for applications involving high dynamic forces.

Additional drive components are available in item's tried-and-tested range of dynamic elements – from couplings and motor adapter plates to limit switch holders, there is a comprehensive range of products available to enable handling equipment for this load level to be built using this modular philosophy.



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