**Optimising automation processes**

**Efficient solution for vertical applications –
new Linear Unit GSF 6 60 from item**

**Translational movement of loads – many transport tasks in automated processes are carried out with the assistance of linear technology. One common application is the lifting of loads. New Linear Unit GSF 6 60 TR 12x3 is particularly well suited to these lifting tasks. The unit, which features a spindle drive with a self-locking trapezoidal thread, enables low-friction sliding guidance. The impressive system also offers low-maintenance, cost-efficient operation.**

With its new [Linear Unit GSF 6 60 TR 12x3](https://www.item24.com/en-de/linear-unit-gsf-6-60-tr-12x3-71400/), item has combined a low-friction slide guide with a spindle drive that features a self-locking trapezoidal thread. This trapezoidal thread, with its 3 mm pitch, prevents any uncontrolled dropping of loads being transported in vertical applications. The self-locking feature means there is no need for any additional components such as bars, brakes or other fixings. Thanks to its very compact design, the new Linear Unit is ideally suited to environments where space is limited. An unbroken cover strip protects the inside of the support profile from soiling. [Parallel Drive Set 6 60 D12-1](https://www.item24.com/en-de/parallel-drive-set-6-60-d12-1-70842/) can be used to connect the new Linear Unit to any motor. A drive unit ensures non-slip power transmission. item motors are easily connected to Parallel Drive Set 6 60 D12-1 SE 60 (0.0.708.27) via plug and play. [Hand-Wheel D60 D12](https://www.item24.com/en-de/hand-wheel-d60-d12-71412/) can be used if the new Linear Unit is to be operated manually. It can be quickly installed and enables the transmission of torques of up to 3.7 Nm. The Hand-Wheel is compatible with other Linear Units from item.

**Maximum stability for long-term operation**

The new Linear Unit features integrated spindle supports, meaning stroke lengths of up to 2800 mm are possible – even in continuous operation and at maximum travel speed. The stable, maintenance-free system also offers an impressively long service life and excellent reliability. This results in duty cycles of up to 1000 km and exceptionally economical operation.

Linear Unit GSF 6 60 TR 12x3 is compatible with the item Building Kit System. The automation solution can be configured in just a few steps using the [item MotionDesigner®](https://de.item24.com/en/customer-solutions/configurators/) intelligent selection and design software and commissioned in next to no time with item MotionSoft®.

Information about all new products can be found at <https://de.item24.com/en/support/downloads/download-center/>. You can also view a selection in the [video](https://youtu.be/zD_OiZlo_gg).

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**Caption 1:** The integrated spindle supports of new Linear Unit GSF 6 60 TR 12x3 stabilise the spindle for long strokes. Hand-Wheel D60 D12 is quick to install and can be used to position the slide manually.

**Caption 2:** The Parallel Drive Set, which can be fitted on the end-face, saves valuable installation space.

**Caption 3:** The new Linear Unit from item means that heavy components can be easily lifted to the ideal working height, for example.

**Caption 4:** New Transverse Carriage Plate 6 119x119 (0.0.714.07) speeds up the construction of multi-axis systems.

**About item**

item Industrietechnik GmbH is the pioneer in building kit systems for industrial applications and a partner of the manufacturing industry across the entire globe. Today, the item product portfolio comprises more than 4000 high-quality components designed for use in machine bases, work benches, automation solutions and lean production applications. The company has received a string of awards for products with ground-breaking industrial design and end-to-end ergonomics.

item is spearheading digital engineering by driving forward the digitalisation of processes with software tools developed in-house. The item Academy offers training at various levels, with on-demand training and online courses available in multiple languages.

Headquartered in Solingen, Germany, item has subsidiaries in various countries. Some 900 employees worldwide harness their know-how and passion to develop innovative solutions and services. Twelve sites make sure the company is always close to customers in Germany, with a global logistics chain ensuring swift delivery times for all components.

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