**Top precision and dynamics**

**The new Linear Unit with a ball screw drive from item**

**Compact, dynamic and extremely precise – the new Linear Unit KGT 6 60 with a ball screw drive complements the item process automation portfolio. It can be used in single or multi-axis handling systems. Travelling spindle supports prevent losses in dynamics, even with long strokes. Other benefits include quiet, low-vibration running and precise repeatability. Linear Unit KGT 6 60 is particularly well-suited to highly dynamic industrial applications. It is also available as item MotionKit in three standard lengths. This all-in-one package includes the Linear Unit, Motor and Controller at an attractive price.**

Precision, high positioning accuracy, high drive force, reliability, flexibility, and a long stroke – the new [Linear Unit KGT 6 60](//welcome.item24.de/kgt) from item combines a host of benefits. It is remarkable for its compact housing and a stroke of up to 2600 mm. The ball screw drive with precision spindle ensures high positioning accuracy and prevents uncontrolled carriage movements. Thanks to mechanical coding on the inside of the axis, the spindle is perfectly supported at any stroke length and in any carriage position. It is extremely low-maintenance and enables long-term operations. The maximum speed is 1 m/s, with maximum acceleration of 15 m/s². The carriage is designed for an operating load of up to 1000 N and offers repeatability of 0.01 mm.

**Powerful all down the line – as an individual unit or in a package**

Linear Unit KGT 6 60 is particularly suitable for applications that have high requirements in terms of precision and dynamics. The powerful ball screw unit enables tools and workpieces to be moved along the linear axis with extreme accuracy. What’s more, Linear Unit KGT 6 60 can be used in 2D and 3D gantries with several axes, to conduct two-dimensional transport tasks and pick-and-place operations, for example. Matching Drive Sets are available in the sizes 40 mm and 60 mm and enable the connection of the appropriate item Motors without any further machining. Other drives can be connected using Drive Set KGT 6 60 - universal. Furthermore, item offers suitable Gearboxes and Controllers. The associated [item MotionDesigner®](https://www.item24.de/en/productworld/automation/item-linear-motion-unitsr.html) and [item MotionSoft®](https://www.item24.de/en/productworld/automation/item-linear-motion-unitsr.html) software solutions ensure the correct component selection and perfect support during start-up. item also offers Linear Unit KGT 6 60 as an all-in-one package with Motor and Controller in the three stroke lengths of 600 mm, 1400 mm and 2600 mm. The [item MotionKits Linear Unit KGT 6 60](//welcome.item24.de/kgt) can be purchased at an attractive package price and, like Linear Unit KGT 6 60, ensure efficient, cost-effective process automation and a high standard of quality in automation systems.

**Other New Products**

Also new in the field of machine automation are the Profiles X 8 M45 XMS and Fastening Sets 8 80x80 XMS. These open up new construction opportunities for commissioning machine cabins even faster. Integrated cable conduits are thus accessible from outside, which makes it much easier to install operating and control elements. With the new Groove Plate X 8 40, sturdy working surfaces with precise groove spacing of 40 mm can now be achieved. As a result, assembling and disassembling fixtures and cobots is fast and convenient.

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**Caption 1:** The new Linear Unit KGT 6 60 from item is particularly suitable for applications that have high requirements in terms of precision and dynamics.

**Caption 2:** The ball screw drive with precision spindle ensures high positioning accuracy and prevents uncontrolled carriage movements.

**Caption 3:** item also offers Linear Unit KGT 6 60 as an all-in-one package with Motor and Controller in the three stroke lengths of 600 mm, 1400 mm and 2600 mm – as item MotionKits Linear Unit KGT 6 60.

**Caption 4:** Profiles X 8 M45 XMS and Fastening Sets 8 80x80 XMS open up new construction opportunities for commissioning machine cabins even faster.

**Caption 5:** With the new Groove Plate X 8 40, sturdy working surfaces with precise groove spacing of 40 mm can now be achieved.

**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 4,000 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. Eleven 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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