**Linear technology from a single source**

**Servo system BL 1-04/C rounds off
item drive systems**

**The new item Controller BL 1-04/C completes the portfolio of item servo drive systems. Its extensive series-standard specification makes for easy and flexible configuration. The combination of high controller quality and fast sampling rate also paves the way for dynamic applications. In conjunction with the interactive dimensioning tool item MotionDesigner®, item Controller BL 1-04/C can help create the ideal linear system complete with Motor – for a wide range of process automation applications.**

item Controller BL 1-04/C is a high-performance solution with fast sampling rates and a cutting-edge programming environment that ensure productive applications can be configured easily and flexibly. Motion profiles including I/O simulation lay the groundwork for the Linear Unit’s seamless integration into the item Automation System. Thanks to its compact format (200x50x163 mm), the Controller takes up little space in a switchbox and makes the item linear motion units® even more flexible and impressive.

Key functions and interfaces such as fieldbus and Safe Torque Off (STO) are on board as standard. HIPERFACE®, HIPERFACE DSL®, EnDat 2.2 and resolver encoder systems are all supported. The integrated USB and Ethernet interface handles programming and transmission of the motion profile using item MotionSoft®. Inputs and outputs can be simulated during development work.

**Ideal linear technology pairing for long strokes**

When paired up with item Controller BL 1-04/C, [Linear Unit KGT 6 60 P20](https://product.item24.de/en/products/product-catalogue/productdetails/products/new-products-2020ii-autumn-1001612729/linear-unit-kgt-6-60-p20-70600/?elqTrackId=2f085413e07540e6b53adee576f42589&elqaid=5170&elqat=2) is ideal for applications that have exacting requirements in terms of dynamics and precision. The Linear Unit’s travelling spindle supports ensure high speeds, even when long strokes are involved. Other benefits include quiet, low-vibration running and precise repeatability. The Linear Unit features a compact housing and a stroke of up to 2,600 mm, making it particularly well suited to highly dynamic industrial applications. It is also available as an [item MotionKit](https://product.item24.de/en/products/product-catalogue/products/item-motionkits-1001612731/?elqTrackId=5c41c85bf8a545c4b8913218acc65655&elqaid=5170&elqat=2) in three standard lengths. This all-in-one package includes the Linear Unit, Motor and Controller at an attractive price.

**item MotionDesigner® – custom configuration of Linear Units**

[item MotionDesigner®](https://motiondesigner.item24.de/DEen/?elqTrackId=adf1a56b54ba424bbee5b45bd3570dc2&elqaid=5170&elqat=2&_gl=1*6718jc*_ga*Nzc4NzE0NzAzLjE2MzIyMTQ1NDg.*_ga_L5MYWBK2L4*MTYzMjMyMjc3NS40LjEuMTYzMjMyMjg3MC4w&_ga=2.30087999.1857295755.1632322776-778714703.1632214548#/type) helps compile the appropriate mechanical and electronic components for the application to be automated. It uses application data to determine the ideal combination of servo Controller, Motor, Gearbox and linear system, including all necessary components. Complete CAD models in various formats are also available to download, meaning no further drawings are needed. What’s more, item MotionDesigner® creates a complete program for the servo Controller, including parameterisation. As a result, the drive can be commissioned without the need for time-consuming tuning or further settings.

**Length:** 3,011

**Date:** 28 September 2021

**Photos: 4 (source: item)**

**Caption 1:** Thanks to its compact design (200x50x163 mm), the Controller takes up little space in a switchbox.

**Caption 2:** When paired up with item Controller BL 1-04/C, [Linear Unit KGT 6 60 P20](https://product.item24.de/en/products/product-catalogue/productdetails/products/new-products-2020ii-autumn-1001612729/linear-unit-kgt-6-60-p20-70600/?elqTrackId=2f085413e07540e6b53adee576f42589&elqaid=5170&elqat=2) is ideal for applications that have exacting requirements in terms of dynamics and precision.

**Caption 3:** Different connectors and clear colour coding make the separate types of cable unmistakeable on site and ensure they are not connected to the wrong terminal.

**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. 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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