



# BAHR MODULTECHNIK NEW PRODUCTS BROCHURE

## BAHR MODULTECHNIK

Nord-Süd-Straße 10a  
D-31711 Luhden

Telefon: +49 (0) 5722 - 99330

info@bahr-modultechnik.de  
www.bahr-modultechnik.com

### GGT 90

Positioning system for lifting systems  
and other lifting applications

### WG/WK

Extremely robust positioning axis for  
narrow mounting positions

### CLLK 60

Customizable 3D printer system for  
printing large-size objects

### QSZ 80

Award-winning ISO class 1  
cleanroom suitability

### LLZ 80

High load bearing capacity with  
compact carriage design

# GGT 90 RECEIVES IF DESIGN AWARD



Positioning system for lifting applications

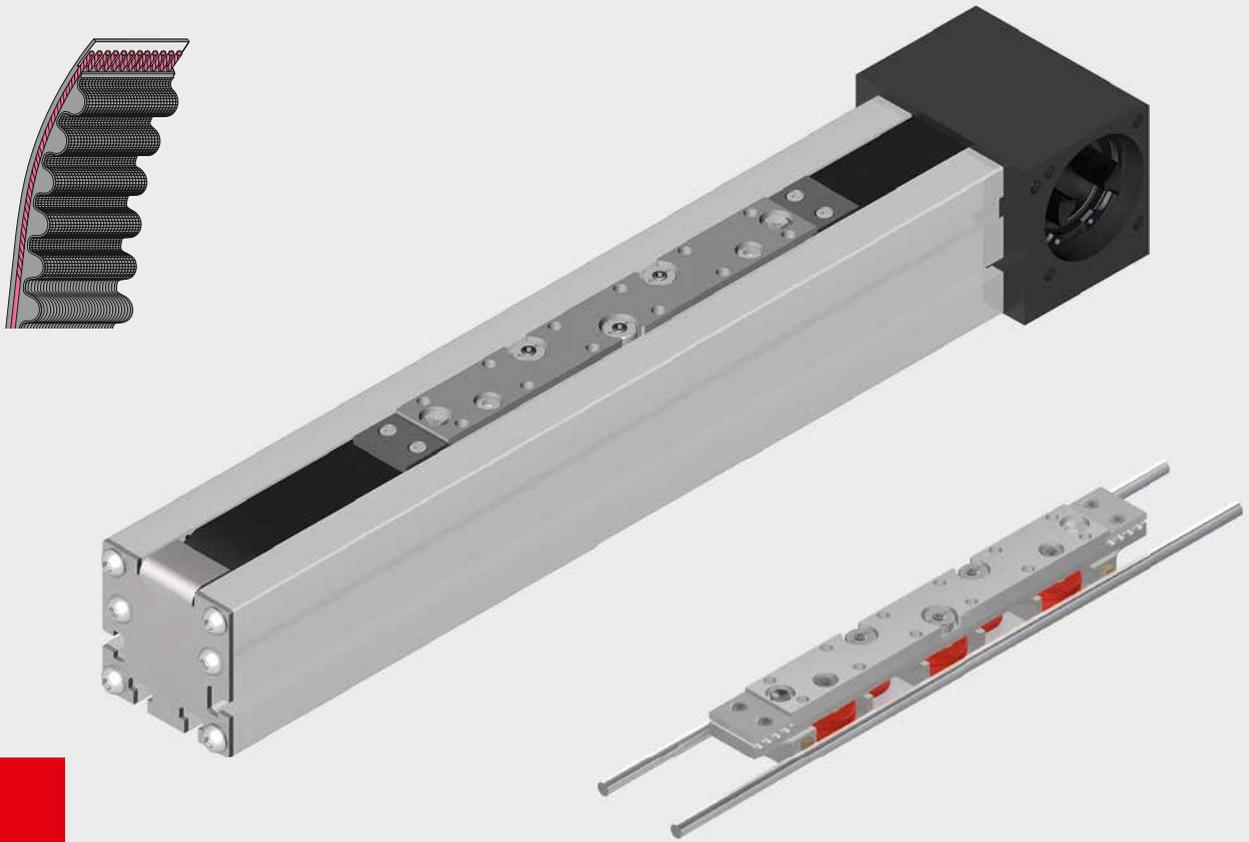
The **GGT/K90** linear unit is especially designed for lifting systems, lifting platforms and other lifting applications. Two large slide bushes made of plastic material, which guide the carriage with minimized friction on interior profile grooves within the axis body, ensure a durable and safe operation with reduced wear. The axes are mounted either by the T-nuts on the bottom side of the profile or by means of boreholes in the bearing piece.

Due to the fact that only spindles and screws made of stainless steel are used, the GG 90 units ensure optimum corrosion resistance. They are available with either single or multiple trapezoidal-thread spindles or also with ballscrew drive.



THE SPECIALIST FOR MODULAR POSITIONING SYSTEMS





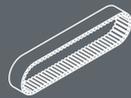
## LLZ 80 TOOTHED BELT AXIS

High load bearing capacity with compact carriage design.

The proven **LLZ** series of positioning units is now expanded by a new size. The **LLZ 80** with toothed belt drive and internal roller guide can be equipped with either four or five especially large rollers capable of carrying loads up to 350 kg.

The revolving HTD toothed belt with reinforcing steel mesh ensures a repeatability of  $\pm 0.1$  mm with nearly no backlash when changing direction. Due to the optimized belt fixation, the carriage has a very compact size, i. e. it is only 260 mm long, so that long travel distances can be realized even with short axis lengths.

The **LSZ 80** series with integrated rail guide can now also be used for cleanroom applications. The LSZ 80 is certified for use in cleanrooms according to ISO class 1.

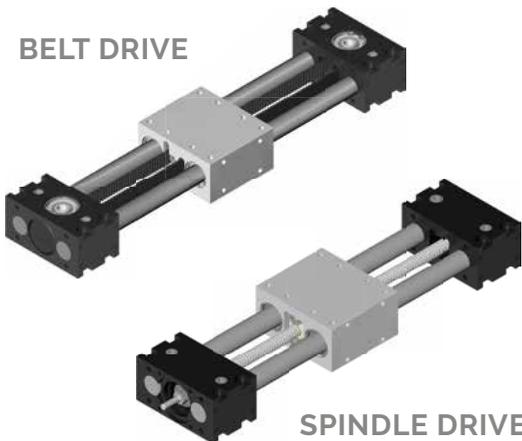


WGVZ / WKVZ 16

## Robust unit for flexible mounting possibilities

An extremely robust and high-performing solution with ball bushing or slide bushing guides, which can be installed very flexibly in various mounting positions.

BELT DRIVE



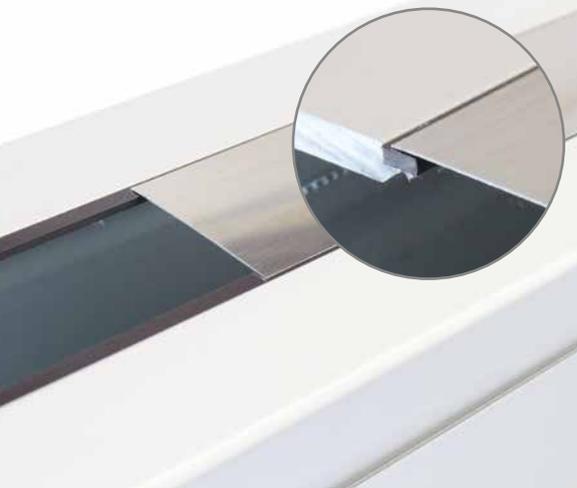
SPINDLE DRIVE



WG / WK 16 | Belt drive and spindle drive

## One profile - plenty of possibilities

The carriages and bearing pieces for the spindle and belt drive variants of the WG and WK series can now be made from one single profile. They are directly milled and manufactured on our inhouse CNC machinery.



QL / QS

## Cover band with magnetic retaining strap

Especially air-tight positioning unit with integrated magnetic retaining strap. Due to adapted cutouts in the profile, the cover band can be fixed by means of magnetic straps, even in special mounting positions (overhead) without any problems.

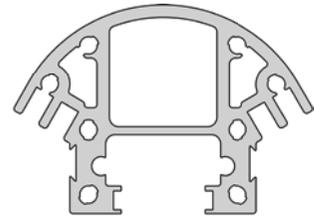


QSZ 80

## First class in cleanroom test

This positioning system meets the most demanding criteria according to ISO class 1 in long-time tests even at travel speeds of 1 m/s and an acceleration of 2 m/s<sup>2</sup>. A reliable positioning solution for cleanroom applications.

# CLLK 60 | TRIPOD



Powerful solution in variable designs

Freely customizable **3D printer system** for printing large-size objects. The system structure, which is flexibly scalable, consists of newly developed profile axes of the **LL 60** series and highly accurate ballscrew spindles. The dimensions of the top and bottom panels as well as the optional side covers can be freely chosen. Thanks to the modular construction, the system is cost-optimized. Due to this modular concept, we can ensure short delivery periods, even for customized variants. On request, the system can also be provided with the corresponding motor and control equipment.

To achieve a smooth, synchronous run, the spindle nuts are supported by roller guides along the profile axes that are mounted without screws. The mounting grooves in the axis profile ensure easy fixation of various side covers, e. g. made of glass, plexiglass, aluminium or composite materials. The double groove enables single or double glazing to be mounted.





Bahr Modultechnik GmbH  
Nord-Süd-Str. 10a - D-31711 Luhden  
Telefon +49 (0) 5722 - 99 33-0  
[www.bahr-modultechnik.com](http://www.bahr-modultechnik.com)