

## MONORAIL BZ25 unites the requirements for simple construction, installation, cost effectiveness and reliability

The GST company provides its customers with bespoke leading edge technology solutions. The quality and reliability of the cylindrical grinder has made the company a highly productive and flexible partner in the automobile and machine tool production industries.



### The company

Ever since its foundation in 1992, the company GST has offered, in easy grasp of its customers, bespoke leading edge technology solutions.

The quality and reliability of the cylindrical grinder from GST has, in a short time, made the Austrian company a highly productive and flexible partner for its global customers in the automobile industry and industrial machine tool production.

By manufacturing individual cylindrical grinding machines and complete processing solutions, as well as innovative machine concepts for the processing of gears and crank and cam shafts; GST has established itself as an internationally recognized enterprise in these fields.

In addition to the development and production of new machines, GST is also involved in the maintenance, servicing, reconditioning and retrofitting of used industrial machine tools of all types.

Today, the company has 45 employees plus sales representatives in Germany, France, the Czech Republic and China.

### The grinding machine

This particular grinding machine is an external cylindrical grinding machine that, with angled-grinding heads, is used for processing gear box shafts for heavy duty vehicles. This machine, constructed specifically for the work-piece being pro-

cessed, along with its leading edge technology, guarantees very high productivity. To reduce the loading and unloading times and to keep the machine as compact as possible, an integrated 2-axis loading system has been developed.

Since the machine runs in 3 shifts and the work-piece must be produced with very high precision, a guidance system was chosen that pairs high stability with maximum precision and yet requires very little maintenance. The loading axes need to reach high speeds to achieve the shortest possible loading times.

## The linear guides

In the end, the System chosen was the BZ25, and has a total length of 2250 mm and unites the requirements for simple construction and installation, cost effectiveness and reliability.

- The helical gear rack allows for a very dynamic yet quiet running performance.
- By integrating the gear rack into the linear guides, installation space is a lot less compared to that of the traditional separate gear rack design; consequently machining of the machine base and the installation of the guides and actuation system are considerably simpler.
- Last but not least, the system's exceptional space-saving attributes result in a very compact size of the whole system.



**In summary the following components are installed:**

### Rails:

- 1 x BZ S 25-Q5H-R1-2250
- 1 x BM S 25-N-G3-KC-R1-2250
- 2 x BM S 45-N-G3-KC-R1-2172
- 2 x BM S 25-N-G3-KC-R1-0520 (Hub axle)

### Carriage:

- 4 x BM W 45-D
- 4 x BM W 25-E
- 2 x BM W 25-C

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