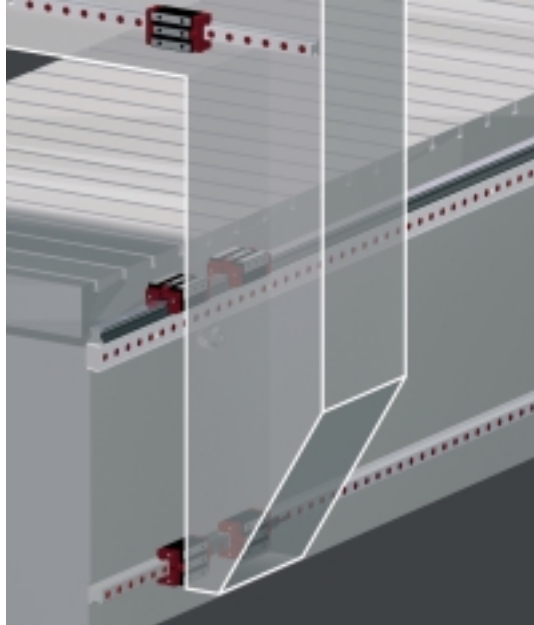




SCHNEEBERGER
LINEAR TECHNOLOGY

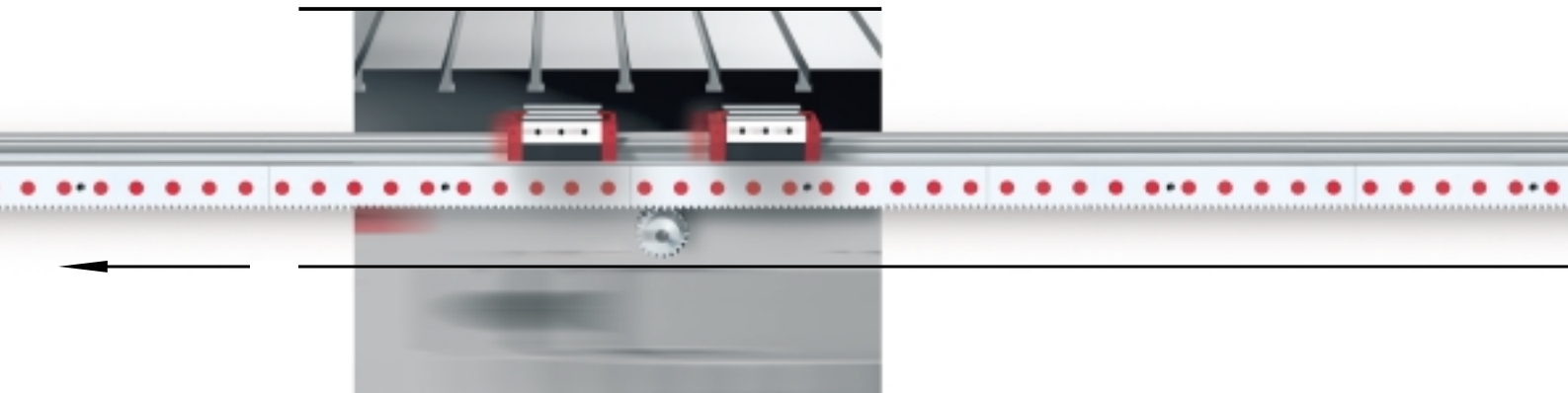
MONORAIL BZ 35

Linear guideway system
with integrated toothed rack drive



With its MONORAIL BZ 35 model, SCHNEEBERGER provides a linear guide system with various classes of precision. This extends the characteristic performance of the ball-bearing MONORAIL system with the advantages of a highly accurate, integrated toothed gear drive system from GÜDEL.

The SCHNEEBERGER-GÜDEL MONORAIL BZ 35 – an innovative drive concept.

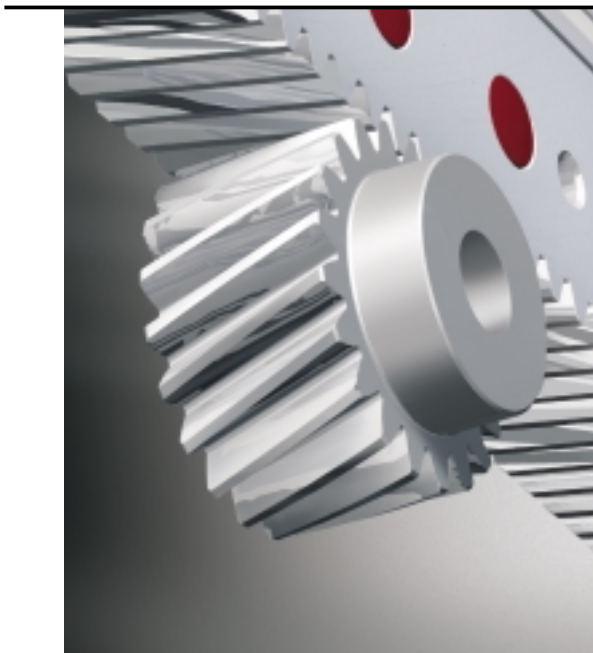


Single-piece system lengths of up to 6,000 mm

The highest degree of accuracy by using individual, highly accurate toothed gear segments, connected to the MONORAIL track. Single lengths of up to 2,000 mm are available in the 400 mm module, and single lengths of up to 6,000 mm are feasible without a joint if required. By lining up several BZ systems next to each other, even larger paths of travel can be achieved without loss of accuracy.

Gear tothing corresponds to quality 5

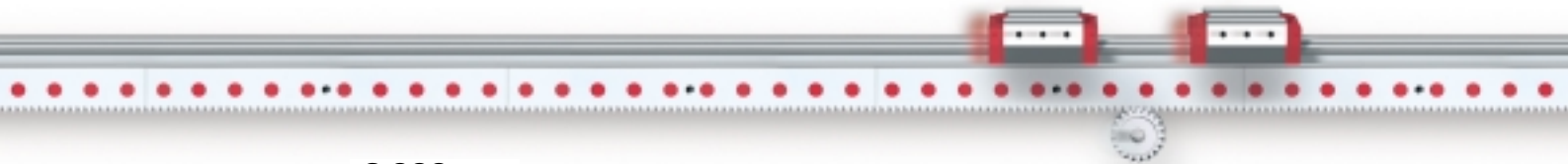
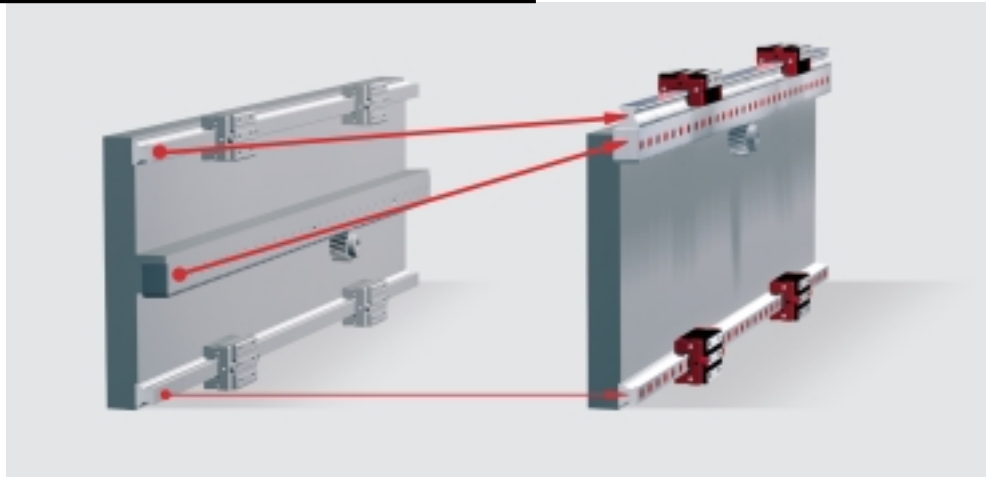
The ground and hardened toothed rack with its angular tooth system module 2.5 permits a flexible run with the maximum transmission of power.



Cost savings of up to 25%

by reducing manufacturing and assembly expenditure in contrast with a system that is assembled separately.

By combining the guideway and gear teeth, only 2 rather than 3 assembly surfaces are necessary.



6,000 mm

Manufacture goods with the greatest possible time and space efficiency

Less floor space required (than a spindle drive).

The possibility of carrying out

several independent tasks involving motion on one BZ system

contributes to the economic viability of the system.

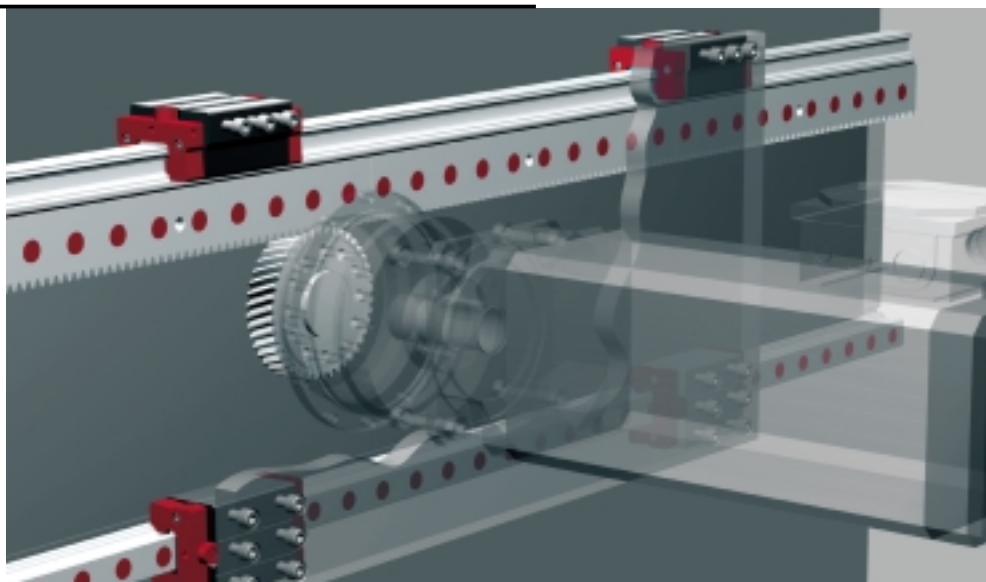
Optimal use of its design advantages, when used in material handling and automated manufacturing, wood processing machines, laser and water jet cutting machinery.

Very high speeds and high acceleration - these are typical requirements in the handling and automated manufacturing industries.

Handles huge forces and is reliable when used in "demanding" conditions, like those that occur on a wood processing machine.

Meets the highest demands in positioning accuracy, without need for an additional measuring system, in many applications (integrated measuring system available if required).

Complete drive unit consisting of the BZ Monorail, pinion gear, transmission and motor, and lubrication accessories can be supplied if required.



Recommended Installation

Please note that the max. load is not only limited by the carriages, but also by the fastening of the system to the surrounding construction.

flush with top side of toothed rack

max. R1

max. 0.5 x 45°

max. 5

Handles torsional forces through the lower carriage with good moment load characteristics.

drill hole prepared for alignment pin

The SCHNEEBERGER MONORAIL BM, the bedrock for demanding applications.

High degree of positioning accuracy

Using the optimized geometry of the carriage and track, a high degree of accuracy in processing and positioning is achieved.

Minimum expenditure on maintenance, longer serviceable life

All-around sealing of the carriages (SCHNEEBERGER standard). Integrated lubricant reservoirs. The carriage is constructed from a small number of individual parts.

Low frictional and stroke pulsation

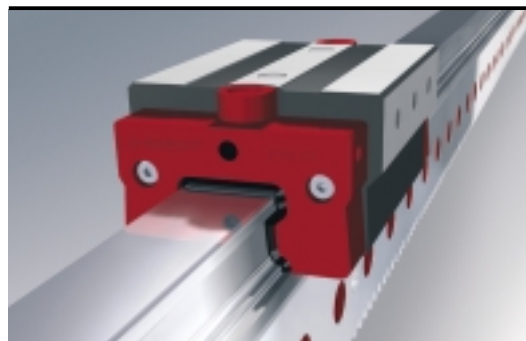
Optimized cornering (track curve) and bedding-down geometry.

High speeds and high acceleration rates possible

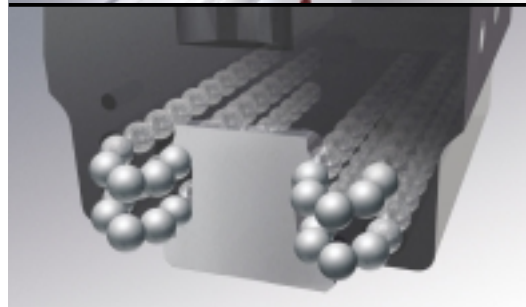
The solid design of the SCHNEEBERGER MONORAIL.

High degree of rigidity, large static and dynamic load-bearing capacity

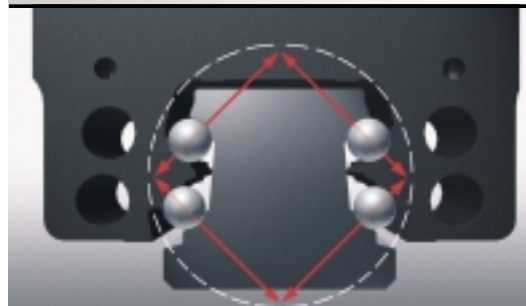
4 rows of ball bearings, 2 point contact, O-shaped geometry, trapezoidal track profile.



Trapezoidal-shaped track profile - accessory parts can be easily retrofitted.



optimized ball bearing cornering

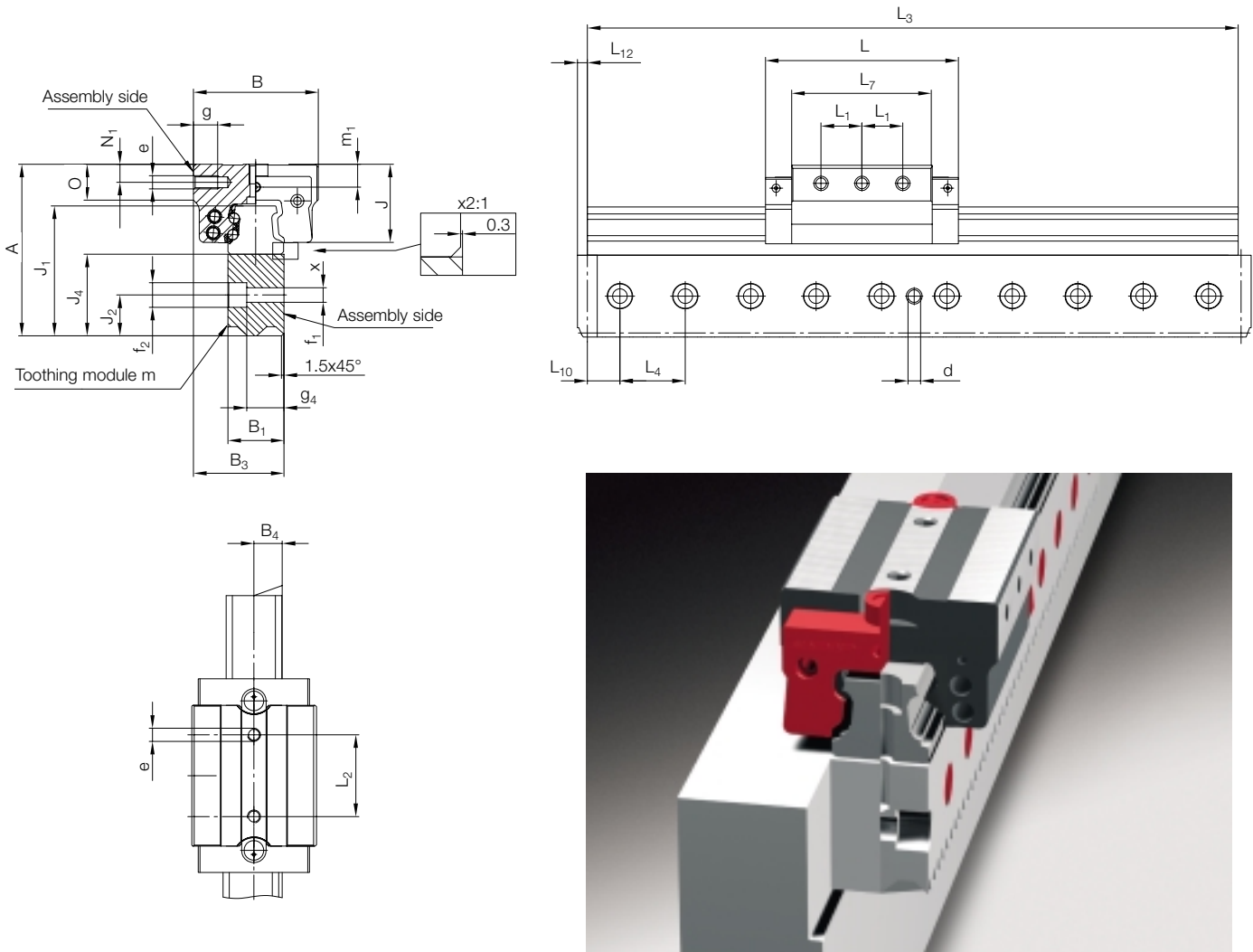


O-shaped geometry

Technical Data

Model Size 35

Model size 25 and 30 are available on request. Seven structural parts to the carriage, according to the model size (cf MONORAIL catalogue).



Measurements in mm

type	A	B +0.4 0	B ₁ ±0.05	B ₃	B ₄	J	J ₁ ±0.8	J ₂	J ₄	L	L ₁	L ₂	L ₄	L ₇	L ₁₀	L ₁₂	N ₁	d	e	f ₁	f ₂	g	g ₄	m ₁	O	m	L ₃
BZ/BME 35	105	76.3	34.3	55.3	17.3	48	79.5	25	50	118	25	50	40	86	20	6,5	11	7.7	M8	9	15	12	22.8	14	22	2.5	400-2,000 (6,000 on request)

Achieve your goals –
use the SCHNEEBERGER design advantages

The SCHNEEBERGER-GÜDEL BZ 35 MONORAIL is a high precision linear guideway system with an integrated toothed rack drive, used primarily in the handling and automated manufacturing industries, on laser and water jet cutting machinery and on wood processing machines.

High precision over long lengths (up to 6,000 mm without a joint is a feasible option).

Tooth system corresponds to quality 5 (hardened and ground)

Cost savings of up to 25% possible through the reduction in expenditures on manufacturing and assembling

The W.Schneeberger AG company was founded in 1923 with its main operating base in Switzerland. Today there are five subsidiary companies dotted around the globe. The production sites are in Switzerland and in Germany. Using a global network of sales companies and exclusive distribution outlets, SCHNEEBERGER supplies more than 4,000 customers in all the major industrial nations.

More than 50 years ago, SCHNEEBERGER laid the foundation for today's global linear technology with its linear guideways. The range of products constructed on a modular basis provides solutions for the widest possible series of applications: linear guideways, roller gear tables, MONORAIL and MINIRAIL profiled track guideways, MONORAIL AMS mechatronics guideways, positioning systems. SCHNEEBERGER assigns great importance to customer support – especially in the project management and planning phases. Detailed calculations and analyses allow solutions to be found for every application.

SCHNEEBERGER is fully committed to the further development of its products and range of goods and to improving its manufacturing infrastructure and logistics, so as to be able to meet the most demanding requirements in the future with economical and reliable products.

SWITZERLAND	W.Schneeberger AG · CH-4914 Roggwil/BE, Switzerland Phone 062 918 41 11 · Fax 062 918 41 00 · info-ch@schneeberger.com
ITALY	Schneeberger S.p.A. · I-21021 Angera VA, Italy Phone 0331 93 20 10 · Fax 0331 93 16 55 · info-i@schneeberger.com
GERMANY	Schneeberger GmbH · D-75339 Höfen/Enz, Germany Phone 0 70 81 782-0 · Fax 0 70 81 782-124 · info-d@schneeberger.com
FRANCE	Schneeberger Technique Linéaire · F-91222 Brétigny-sur-Orge Cedex, France Phone 01 69 88 50 00 · Telefax 01 60 84 96 02 · info-f@schneeberger.com
USA	Schneeberger Inc. · Bedford, MA 01730, USA Phone 781-271-0140 1-800-854-6333 · Fax 781-275-4749 · info-usa@schneeberger.com
INTERNET	www.schneeberger.com