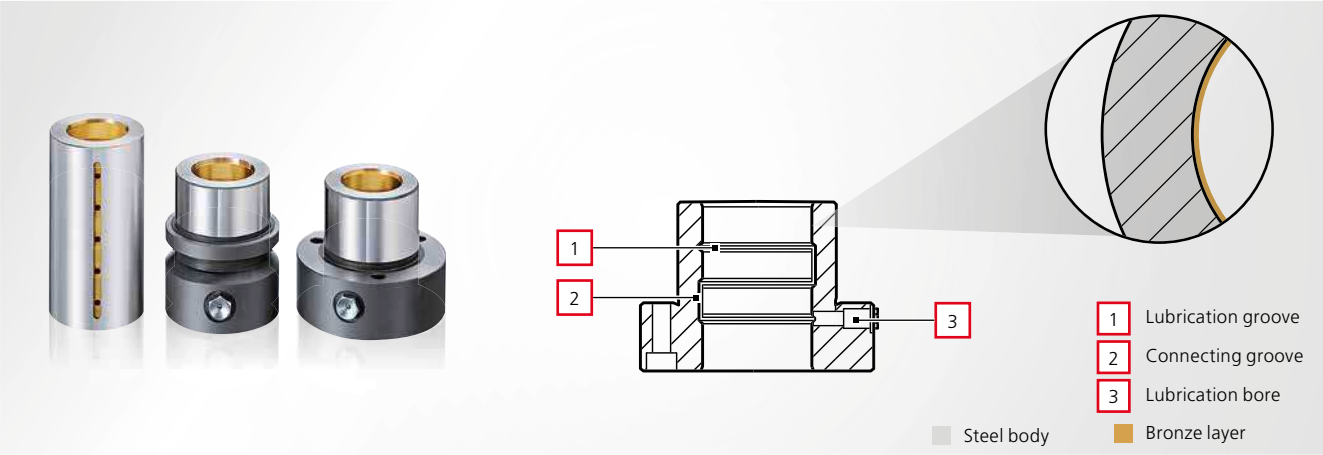
Guide units

Sliding guides, steel with bronze coating



Design

- The hardened steel body (63 HRC) takes on lateral forces and prevents the guide bush from becoming deformed due to the strong force application.
- The galvanic bronze layer spread across the running surface is very hard (250 – 300 HV), extremely low-wear and honed to the highest surface quality.
- It has excellent thermal conductivity in order to quickly dissipate the resulting friction heat.
- The guide bush's internal lubrication system consists of parallel lubrication grooves which are joined via connecting grooves.

Lubrication

- The design of the internal lubrication system guarantees an even distribution of lubricant on the entire svliding surface and provides an effective shielding against dirt.
- Depending on the load of the guide, the internal lubrication system must be regularly supplied with high-performance lubricant (SZ9850/SZ9853) and can also be connected to a central lubrication.

Application

- Suitable for applications with all large strokes, high lateral forces as well as within environments susceptible to contamination.
- Sliding speed up to 20 m/min
- With an optimal design of the lubrication, guide clearance, stroke length, radial load and heat dissipation, high stroke frequencies of up to 800 strokes/min are possible
- Guide clearance of 2–7 µm (with a diameter of 32 mm) – If greater clearance is desired, please specify this when ordering.
- Dry-running properties available

Permissible lateral force with regard to the correct lubrication of bronze-coated bushes with lengths of 20 to 150 mm