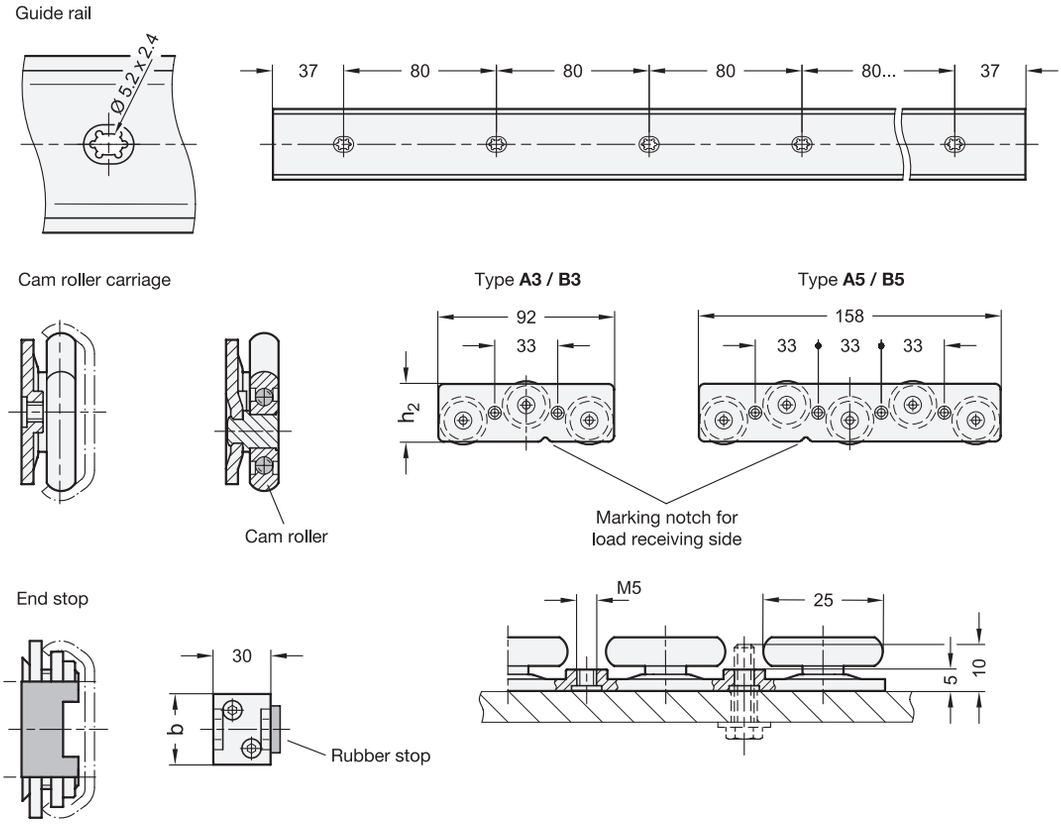

Mounting holes, mounting screws

During assembly, all slotted holes provided in the guide rail and the mounting threads in the cam roller carriage must be used. This ensures that the forces resulting from the maximum load F_L / F_A are reliably transferred to the surrounding construction. Failure to use mounting screws reduces the load capacity accordingly. Other production-related holes in the guide rails are not shown.

Various screws with M5 thread can be used for mounting the cam roller carriages. In contrast, the guide rail must be mounted with the screws listed in the table. It is generally recommended to use screws of property class 8.8 in accordance with the specified tightening torque. The maximum torque for the included countersunk screws of the end stops is 4-5 Nm, which results in the highest retaining force without deforming the guide rails. The pre-assembled rubber stops are automatically clamped by the countersunk screws and thus dampen the stop of the cam roller carriages in the respective end position.

Designation - Standard		Inner slide
Socket countersunk head screw	DIN 7991	M 4 / M 5
Phillips countersunk flat head screw	DIN 965	M 4 / M 5
Phillips countersunk flat head self-tapping screw	DIN 7997	Size 4.5 / 5

Lubrication and maintenance

The running surfaces of the guide rails must be lubricated with roller bearing grease before the first use. Possible lubricating greases include Cassida Grease GTX 2, Shell Gadus S2 V220 or Alvania EP 1, and Klüberplex BE 31-222. In the food or pharmaceutical sector, FDA compliant lubricating greases of class H1 or higher must be used. The grease should be distributed evenly over the entire length of the rail using a paintbrush.

After 50,000 cycles, the rails should be cleaned with a clean cloth and relubricated. If there is a risk of contamination, the maintenance intervals should be shortened. However, contamination should generally be avoided with, for example, suitable covers or optimal positioning of the cam roller linear guide rail systems.