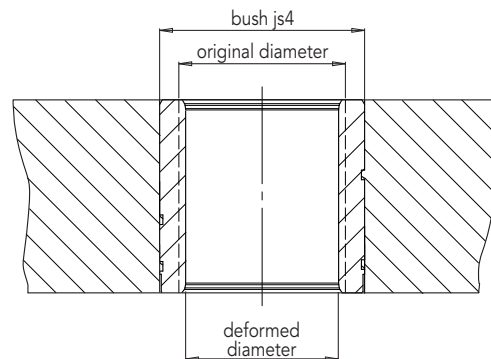


1. For guiding bushes whose length is equal to the thickness of the plate

- » The ball guiding bush E 5140 is fitted without preload into the bore hole of the plate.
- » When pressing in the ball guiding bushes E 5140, the inner diameter is reduced by an undefined dimension. This results in excessive preload between bush, ball cage and pillar. The roller elements will be overloaded and, after some operating time, seriously damaged.



2. For guiding bushes that protrude from the tool's plate

- » Guiding bushes that protrude from the plate (E 5140, E 5120, E 5122, E 5124, E 5212) are fitted into the bore hole of the plate without preload.
- » When pressing in the ball guiding bushes, the inner diameter is reduced by an undefined dimension. This results in excessive preload between bush, ball cage and pillar. The roller elements will be overloaded and, after some operating time, seriously damaged. Moreover, this may cause movement of the cage due to the fact that the inner diameter is reduced by differing dimensions.
- » The bore tolerance of the bushes retainer SV 80 prevents jamming of the guide pillar in the case of sliding guiding bushes and avoids an incorrect preload of the ball guiding unit. And, last but not least, it ensures precise fitting.

