

Design and safety notices for spindle drives

The choice and dimensioning of the system is determined by the customer, since we are not aware of the design, such as place of use and type of operation.



ATTENTION! Danger of material damage

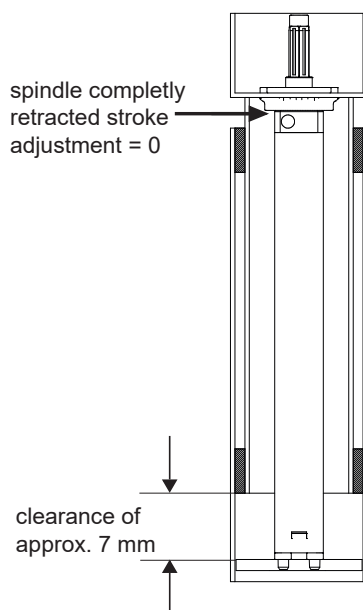
Wrong dimensioning of the column can cause fatal damage to the spindle drive. If the linear movement of the system is not defined by the spindle length, but is blocked due to the mechanical limits of the movable guide tubes, damage to the mounting flange, to the gear wheels in the transmission, or to the spindle nut may occur.

Design suggestions

- ▶ Please design the mechanical lifting column in such a way that, at the moment the spindle drive reaches its mechanical end position, the guide tubes have an additional clearance of approx. 7 mm.

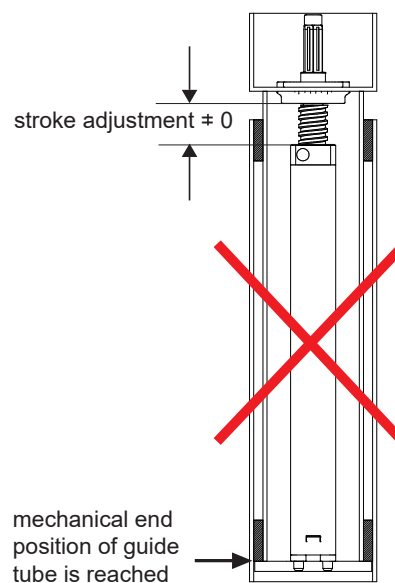
Right

Stroke adjustment = 0
and movement reserve of
guide tube ≥ 7 mm



Wrong

Stroke adjustment > 0
and movement reserve
of guide tube = 0



Intended use

Manual or electromotive spindle drives are components of linear drive systems. Normally electromotive solutions include at least one electric spindle drive and one control unit.



ATTENTION!

Danger of material damage

Wrong choice of system components can cause damage to the spindle drive.

- ▶ Spindle unit, motor, control unit and guide tubes must be precisely coordinated and correctly dimensioned. By setting the application-specific parameters, the control unit operates the entire system.
- ▶ A specially programmed control unit is only to be used for the intended application.
- ▶ Any alteration to the overall system requires a new coordination of the individual components.