

Mounting Instruction

Parallel drive

Valid for:

Module 105

Module 142

easyLINE

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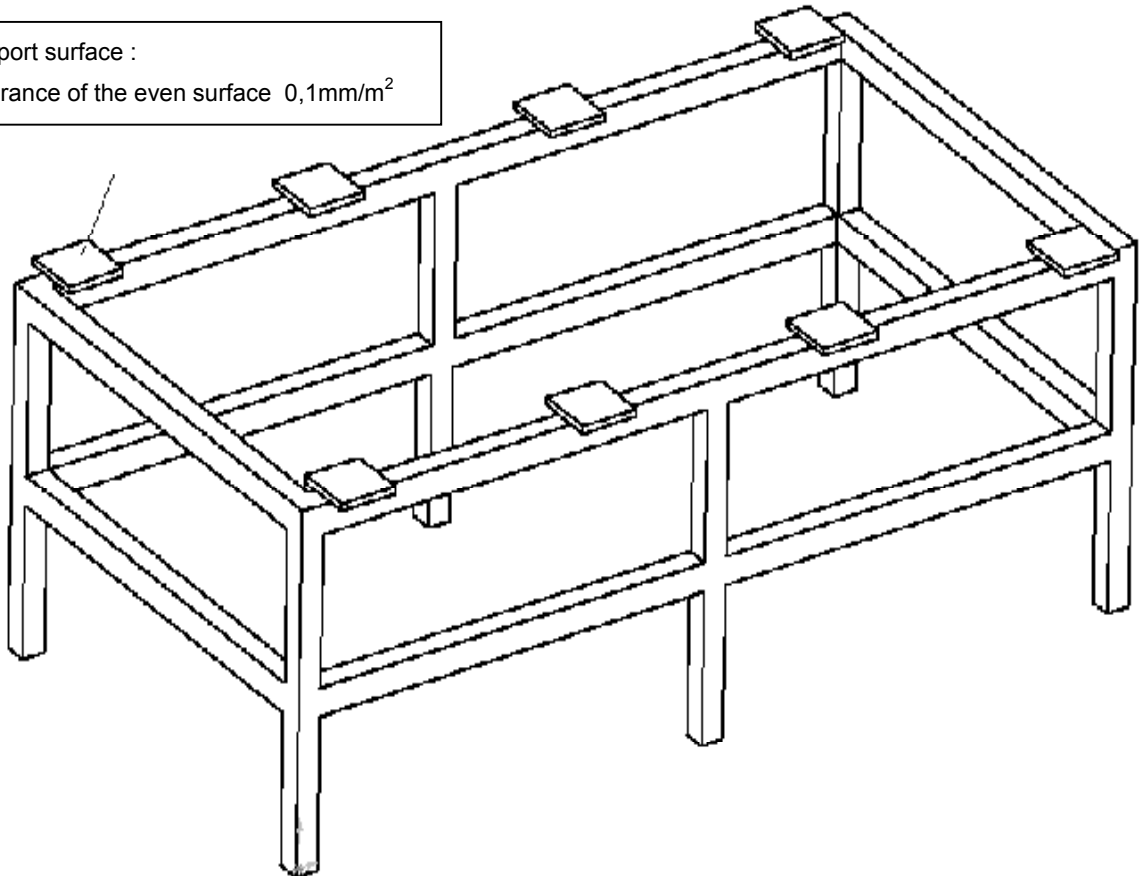
We are always grateful for any suggestion for improvements and information on errors.

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Mounting instructions for parallel drive

1. Support surfaces for the linear axes have to be aligned. The surfaces must be flat and straight to within 0.1 mm/m².

Support surface :
Tolerance of the even surface 0,1mm/m²

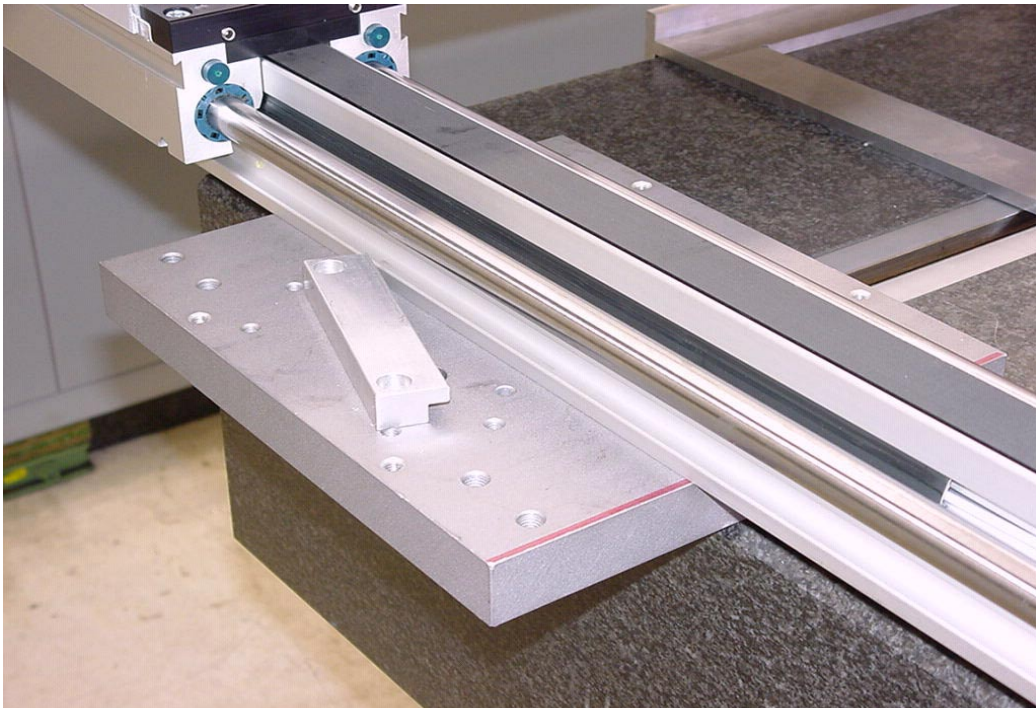


2. The master axis has to be spread out tightly on the mounting surface by means of clamping elements. If higher speeds are required, the running accuracy can be checked by means of a laser interferometer. The running accuracy can be set with application of adjustable clamping elements.

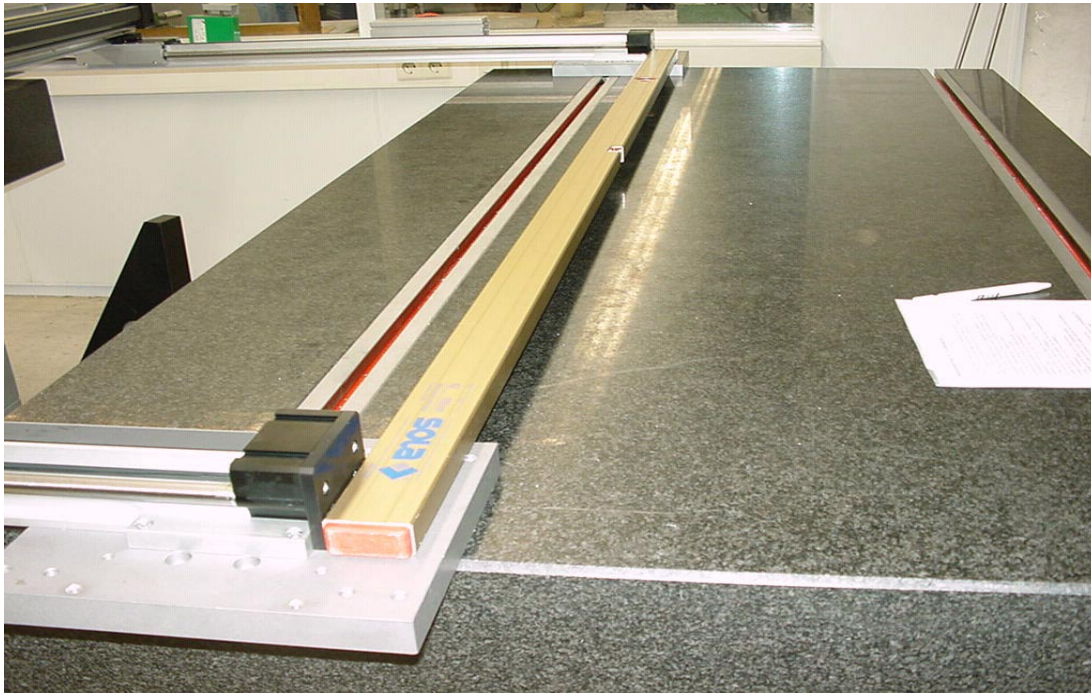
(see picture)



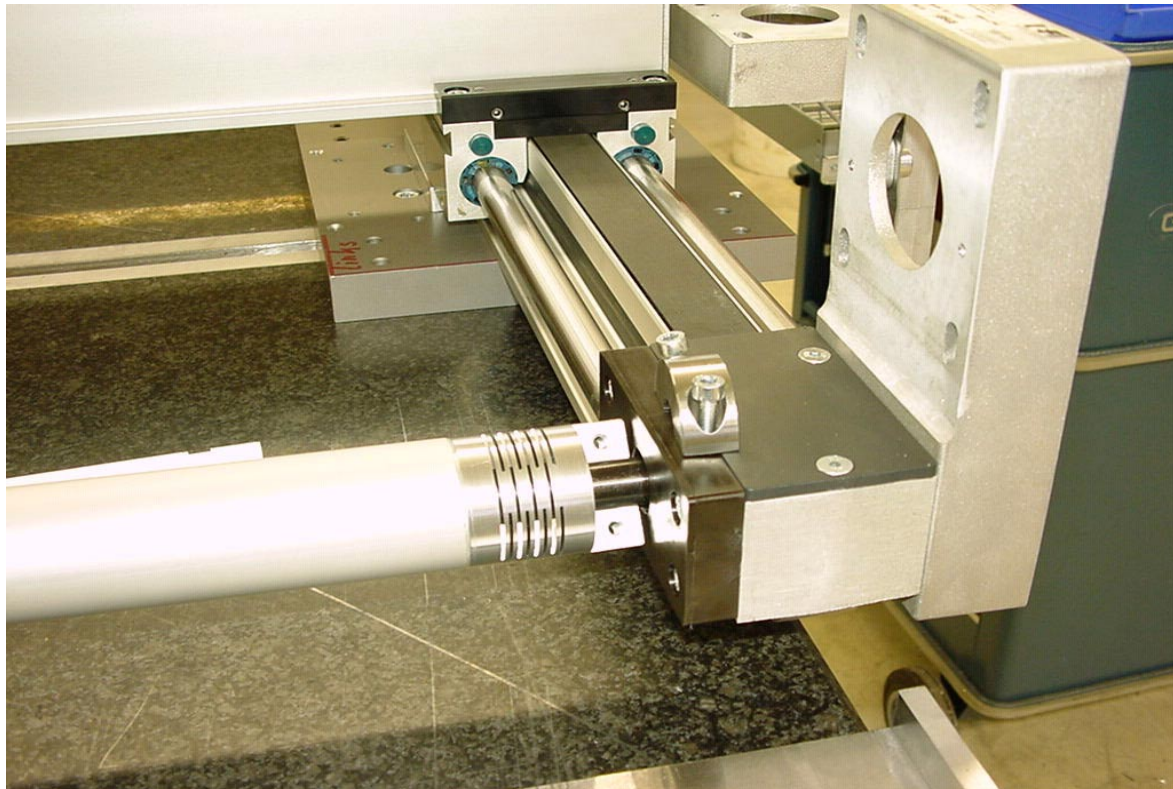
3. Slave-axis to be free on the mounting surface.
(see picture)



4. Linear units to be aligned at the front end.
(see picture)

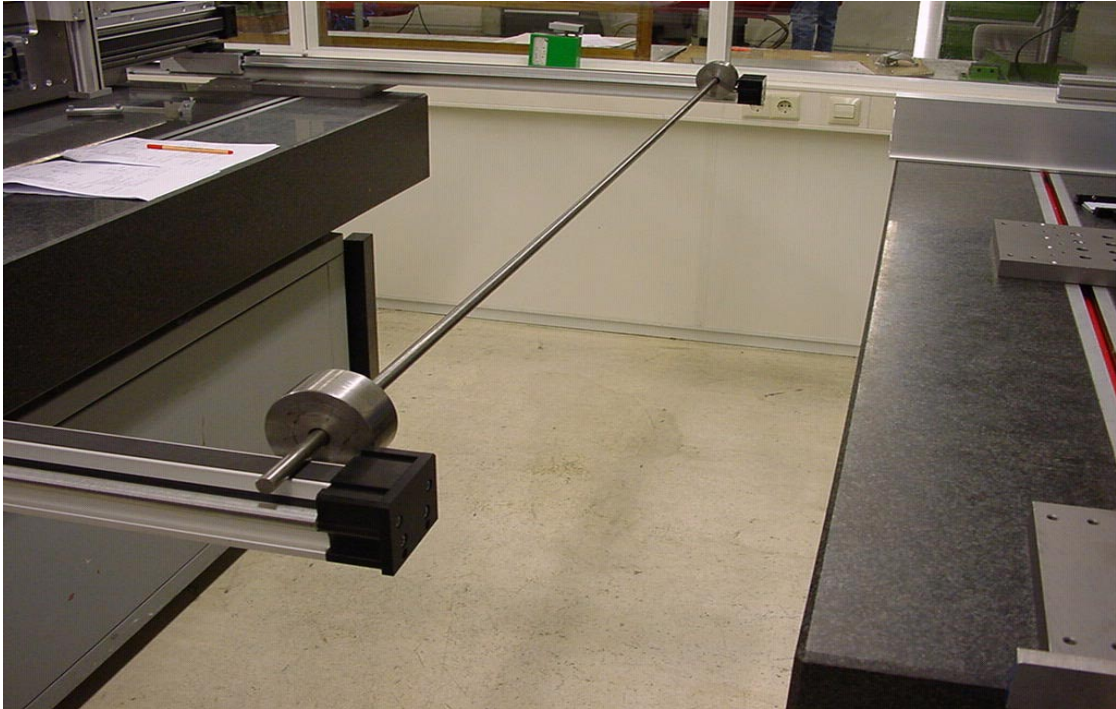


5. Mount the spacer shaft at 90° to the guiding shaft, correct the position of the slave-axis if necessary. Refit the spacer shaft (aid: 90° set square)
(see pictures)

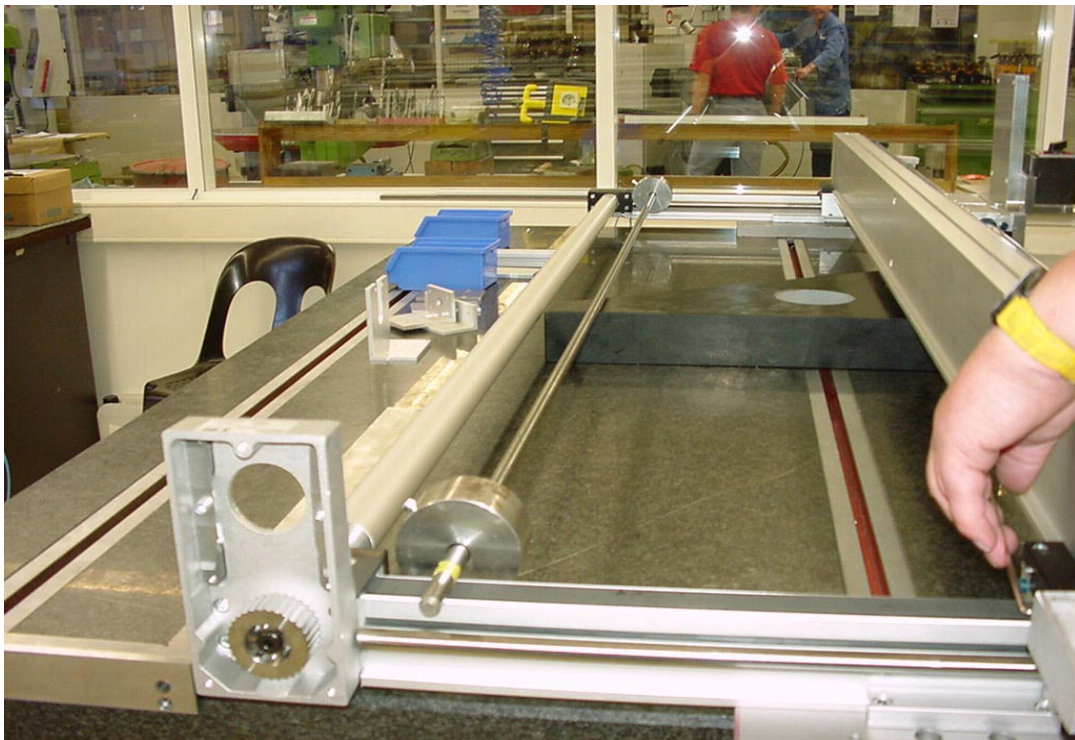


6. Adjust the distance of the slave-axis to the master-axis by means of a separator at the side of the end plate. Tighten the slave-axis slightly.

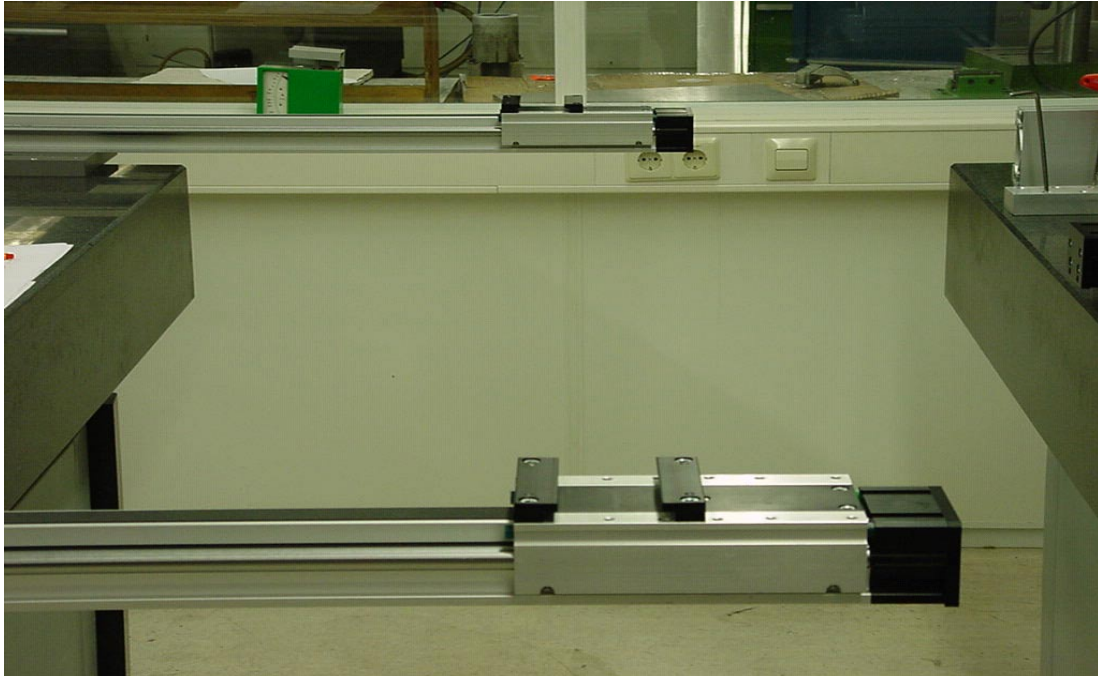
(see picture)



7. Adjust the distance of the slave-axis to the master-axis by means of a separator at the drive side. Tighten the slave-axis slightly. (see picture)



8. Repeat procedure 6 (check the set-up)
9. Position the slides of both axes on the block at the reversing unit. (see picture)



10. Mount the portal axis at 90° to the master axis and the slave-axis.
(Measuring instrument: dial gauge) (see picture)



11. Mount the spacer shaft of the master-slave-axis tightly.
12. Move the portal axis to the next mounting surface by turning the spacer shaft, start at the motor end and tighten the clamping elements as you go.
13. After tightening half of the clamping elements, the clamping elements of the slave-axis at the reversing unit have to be released again in order to avoid faulty gripping.
14. Repeat procedure 12 until the slave-axis is a true position.

