

8.1 General

The linear modules can be combined into the most diverse handling systems. For more details please refer to chapter 8.2.

The installation of the respective axes in the case of many combinations is effected by the direct screw-connection of the individual axes. In these cases, the overall height corresponds to the sum of the height of the individual axes. For certain axis arrangements, intermediate adapter plates are necessary, which increases the overall height.

The **arrangement of the axes**, i.e. the position of the base plate (underneath or on top) is freely selectable.

In case of a utilization of the linear module ALS 140 in a position rotated by 90° or 180° around the longitudinal axis (base plate on top), it is possible that dirt can penetrate into the interior space through the lateral gap. Depending on the degree of contamination with dirt, a side covering of the type SC-140 has to be provided by the user. In preference, the linear module ALS 140 should be used in the normal axis arrangement (base plate underneath), because in this installation position an adequate protection against contamination with dirt is assured.

The **installation arrangement** is defined in such a manner, that the x-axis is always underneath and the y-axis correspondingly always on top.

The respective Installation- and axis arrangement has to be indicated in a drawing together with the order, refer to chapter 9. The position of the motors has to be indicated in accordance with the direction of rotation.

Handling systems are assembled and adjusted in the factory. Larger units are dismantled again for transportation.

8.2 Installation Arrangements

Figure 1: Combination

X-axis: ALM 70-B-2-M-R, supporting axis ALM 70-O-1-O

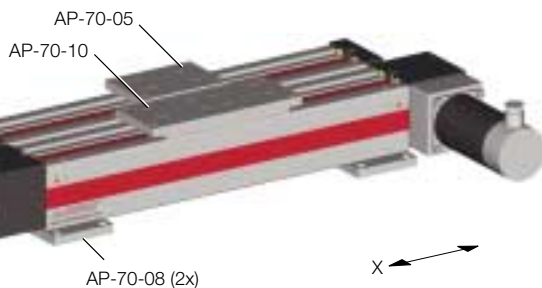


Figure 2: Cross arrangement

X-axis: ALS 140-S-1-S-C-K12×5-M

Y-axis: ALM 70-S-2-M



Figure 3: Cross arrangement

X-axis: ALM 70-B-1-M-R
Y-axis: ALM 70-B-1-M-R

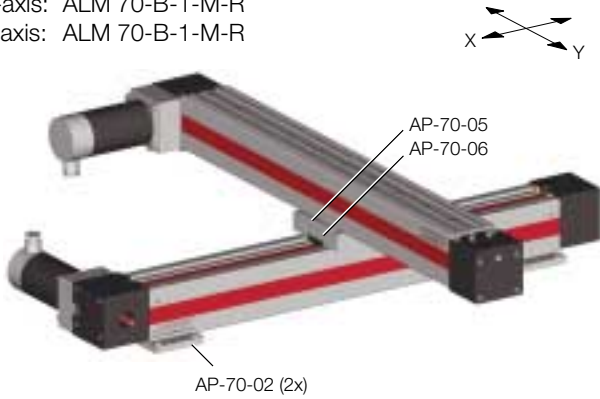


Figure 4: Cross arrangement

X-axis: ALM 70-B-1-M-R, supporting axis ALM 70-O-1-O
Y-axis: ALM 70-B-2-M-R

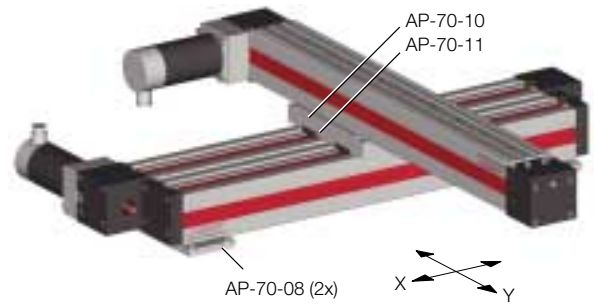


Figure 5: Boom system

X-axis: ALM 70-B-1-M-R
Y-axis: ALM 70-B-1-M-R

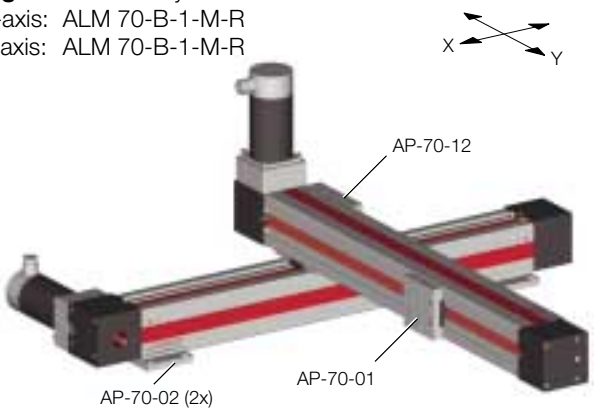


Figure 6: Boom system

X-axis: ALM 70-B-1-M-R
Y-axis: ALM 70-B-1-M-R
Z-axis: ALM 70-S-1-M

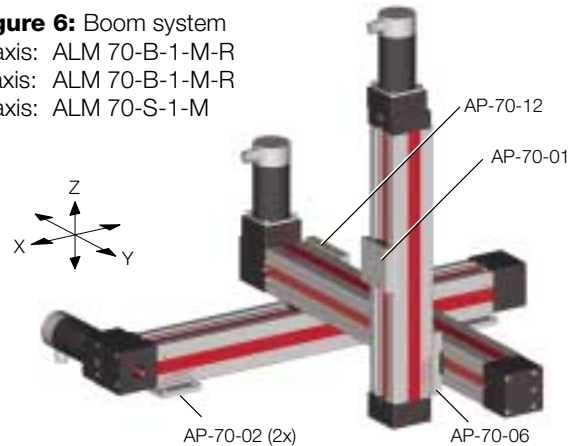


Figure 7: Boom system

X-axis: ALM 70-B-1-M-R,
supporting axis ALM 70-O-1-O
Y-axis: ALM 70-B-2-M-R
Z-axis: ALM 70-S-1-M

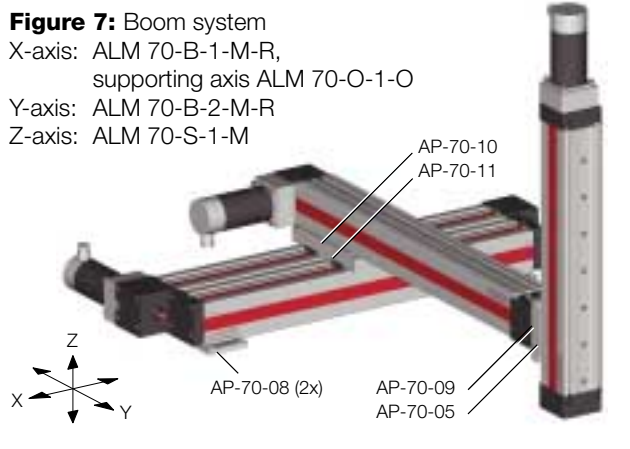


Figure 8: Boom system

X-axis: ALM 70-B-1-M-R
Y-axis: ALM 70-B-1-M-R
Z-axis: ALM 70-S-1-M

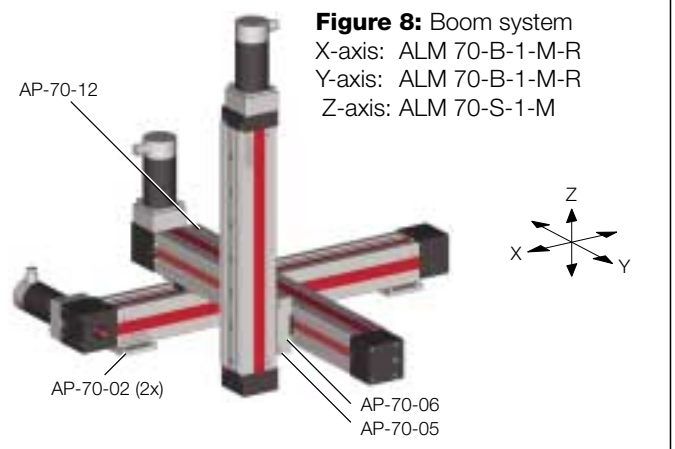


Figure 9: Frame coordinate table

X-axis: ALM 70-B-2-M-R, supporting axis ALM 70-O-2-O
Y-axis: ALM 70-B-2-M-R, supporting axis ALM 70-O-2-O

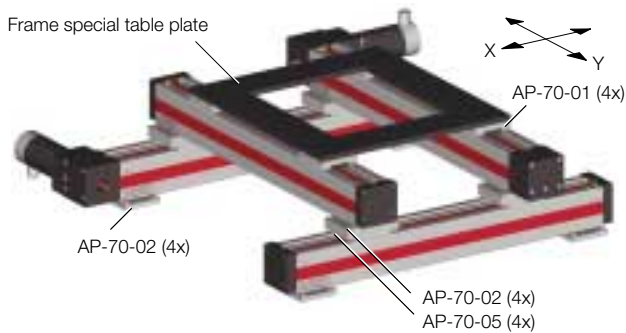


Figure 10: Portal

X-axis: ALM 70-B-2-M-R, supporting axis ALM 70-O-2-O
Y-axis: ALS 140-S-1-S-C-K12x5-M

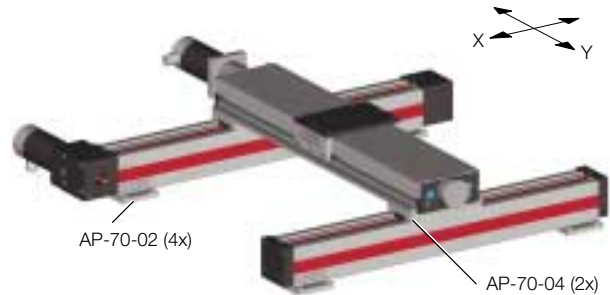


Figure 11: Portal

X-axis: ALM 70-B-1-M-R, supporting axis ALM 70-O-1-O
Y-axis: ALM 70-B-1-M-R

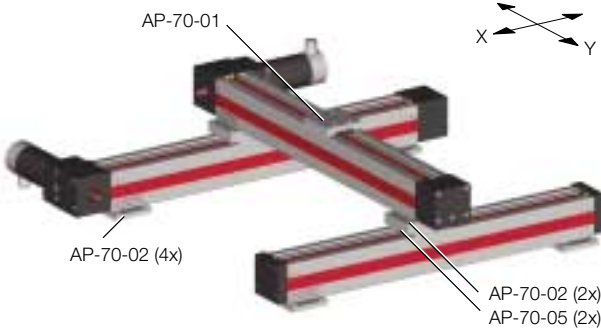


Figure 12: Portal

X-axis: ALM 70-B-2-M-R, supporting axis ALM 70-O-2-O
Y-axis: ALM 70-B-1-M-R, supporting axis ALM 70-O-1-O

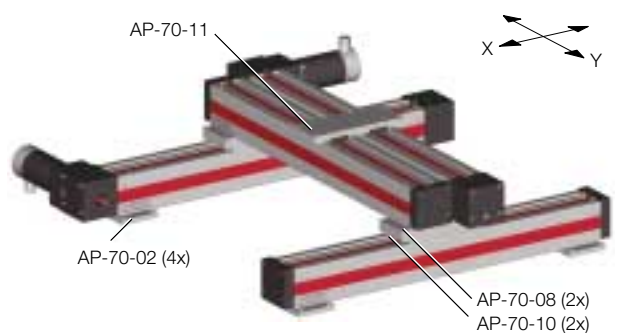


Figure 13: Center drive MD for portal

X-axis: ALM 70-S-1-O (2x)

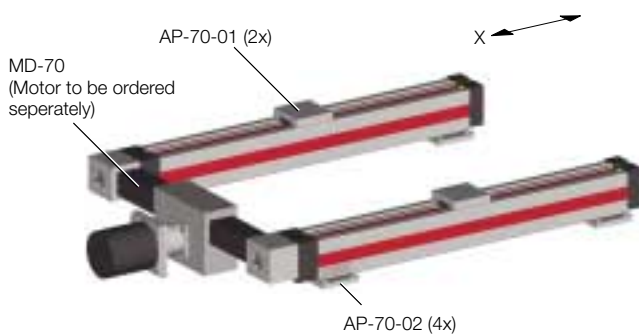


Figure 14: Universally jointed shaft CW for portal

X-axis: ALM 70-B-1-M-R, ALM 70-B-1-O-R
Y-axis: ALM 70-B-1-M-R

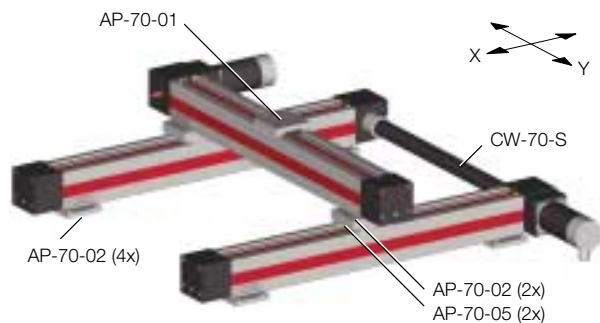


Figure 15: Universally jointed shaft CW for portal
 X-axis: ALM 70-B-2-M-R, ALM 70-B-2-O-R
 Y-axis: ALM 70-B-1-M-R, supporting axis ALM 70-O-1-O

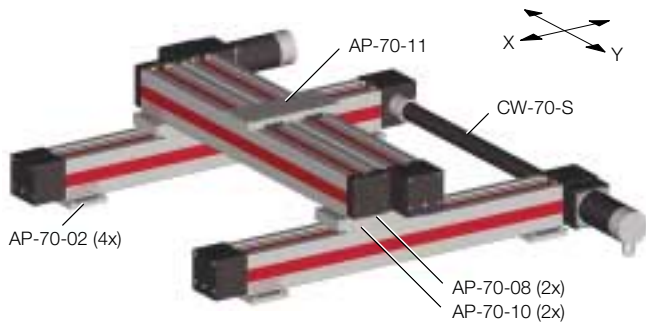


Figure 16: Universally jointed shaft CW for coordinate
 X-axis: ALM 70-B-2-M-R,
 ALM 70-B-2-O-R
 Y-axis: ALM 70-B-1-M-R,
 supporting axis ALM 70-O-1-O
 Z-axis: ALM 70-S-1-M

