Alignment adjustment

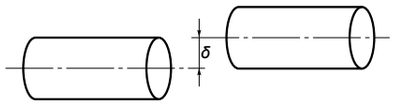
❶ Although flexible coupling permits misalignment and transmits rotation angle and torque, if the misalignment exceeds the allowable value, vibration may occur or the life may be rapidly shortened. Be sure to perform alignment adjustment.

❷ Shaft center misalignment includes eccentricity (parallel error of both shaft centers), argument (angle error of both shaft centers), and end-play (shaft direction movement of the shaft). Adjust the shaft alignment so that it is not more than an allowable value described in the Dimension/Performance table in this catalog.

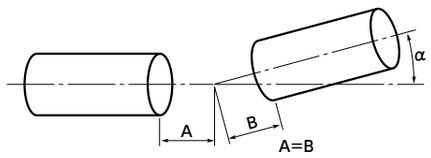
❸ The allowable values of misalignment described in the Dimension/Performance table are for the case where any one of eccentricity, argument, and end-play occurs independently. Mixing of two or more misalignment causes each of the allowable values to be reduced to half.

❹ Misalignment may occur not only in mounting into the device but also due to vibration, thermal expansion, and shaft bearing abrasion during operation. Therefore, misalignment is recommended to be not more than one third of the allowable value.

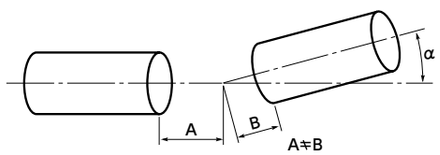
● Eccentricity



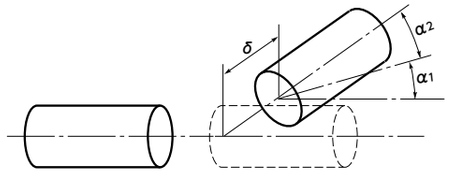
● Angular alignment (center matched)



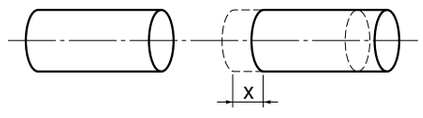
● Angular alignment (center unmatched)



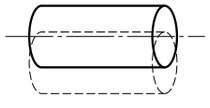
● Mixture of eccentricity and angular alignment



● End-play

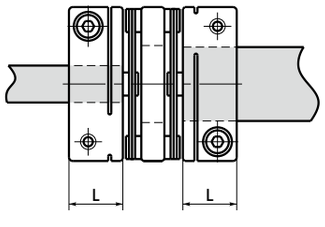


● Run out



Shaft insertion length

For the length of the shaft that should be inserted into the coupling, we recommend the hub length (L dimension) listed in the catalog.
If the insertion amount is longer than the L dimension, check that there is no interference of the shaft inside the coupling.
If the inserted amount is too short, the shaft may slip or the clamping part may break.

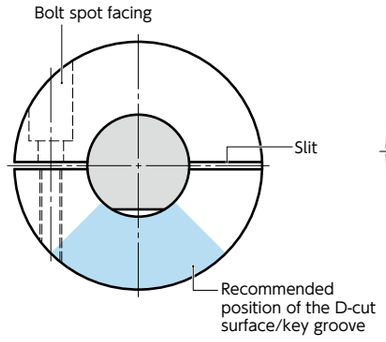


Mounting on a D-cut shaft

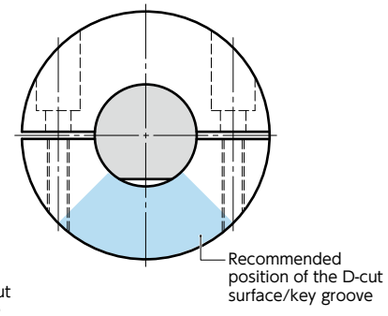
● For clamping type

As a rule, use round shafts with clamping types.
When using D-cut shafts or shafts with key grooves, mount the D-cut surface or key groove in a position which avoids slits and bolt spot facing.

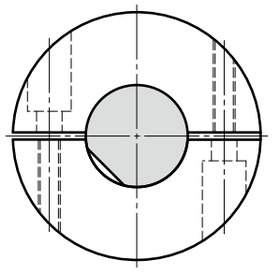
● For clamping types with 1 hex socket head cap screw



● For clamping types with 2 hex socket head cap screws



● For MDW MDS XRP XBW XBWS XBS XBSS



⚠ If the D-cut surface or key groove is not in the recommended position, the clamp part may be damaged if excessive load is applied due to hexagon socket head cap screw tightening.

● For set screw type

Set the D-cut surface as the set screw fastening position when using set screw types.