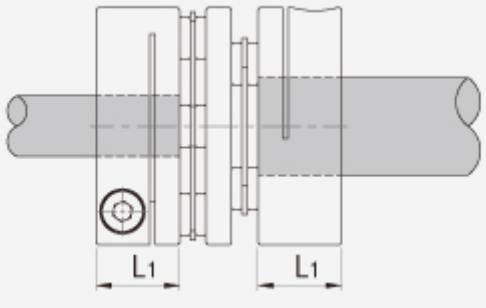
Installation Guide

Suggested Shaft-insertion Depth



The most ideal length of shaft-insertion is up to 'L_1' on each dimension pages.

If a shaft is not inserted deep enough into the coupling, it could make the shaft slipped out or make the coupling hub broken.

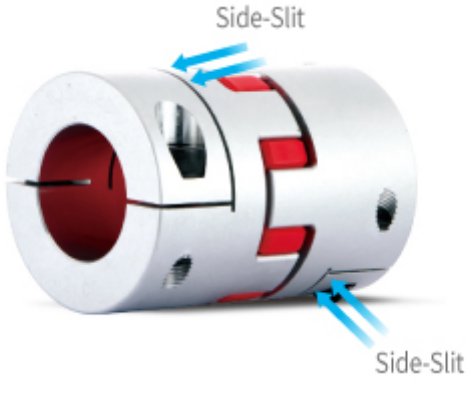
If a shaft is inserted into the coupling too deeply, the coupling could be broken easily due to the interference between the shaft and coupling's inner part or interference between both shafts.

Fastening D-cut shaped shaft into a Coupling (Only Side-clamp Type)

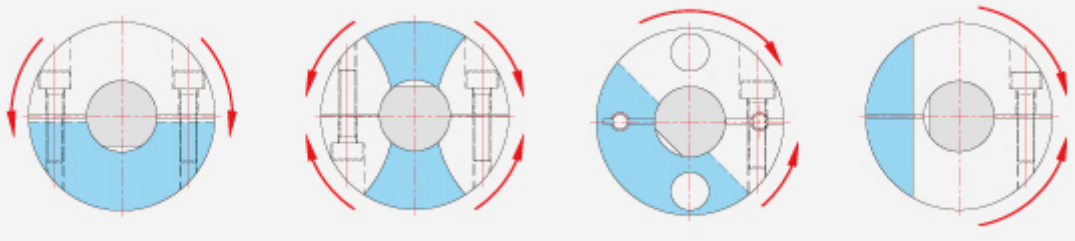
Technically, the adequate clamping force can be guaranteed only with round-shaped shaft. However, in case D-cut shaped shaft has to be used, please follow the below instructions.

Case 1 : With side-slits

As shown in the below example, in a side-slit coupling structure there are normally 2 parts, side-slit (white area) and the rest (blue area). The mechanism of contraction differs by the location of side-slit and shape of each couplings. If a D-cut shaped shaft is inserted into a coupling, it should be located in the blue area, which is not affected by contraction when fastening screws. Please be aware that the clamping force may become lower under an inappropriate shaft fastening.



Examples of D-cut shaped shaft-insertion



Case 2 : Without side-slits

There is no side-slits on space-saving side-clamp couplings e.g. SJCM, SOHM etc. In this case, the D-cut shaft should be located right opposite to contraction (screw-fastening) side.

Space-saving side-clamp type without side-slits

Examples of D-cut shaped shaft-insertion