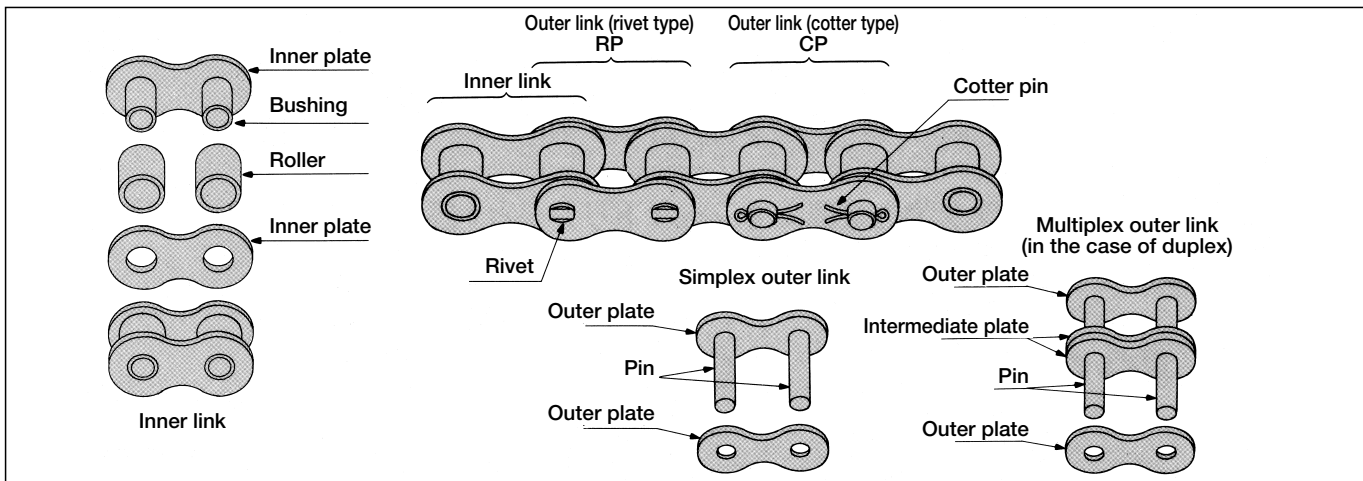


Construction and Components of Chain

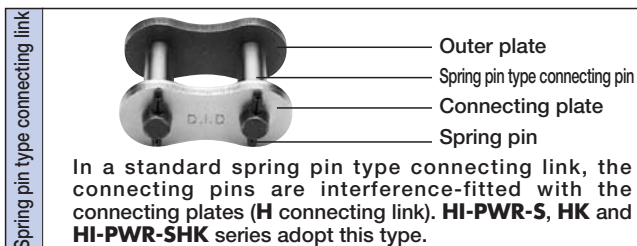
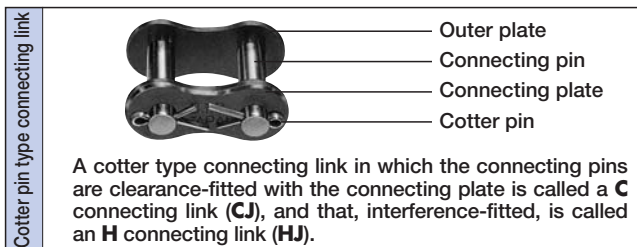
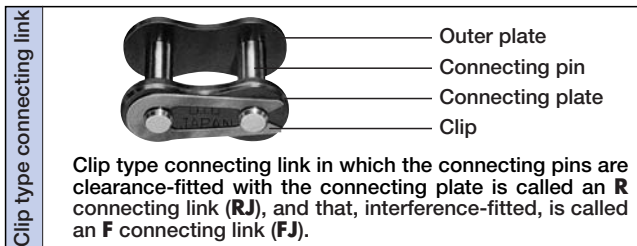
A roller chain has a structure as illustrated below, and the names of the components are stated in the drawing. These components act as described below, and are designed to suit the respective actions.

Components	Pin	Pins support all the load acting on the chain, together with inner and outer plates, and when the chain is engaged with a sprocket, the pins slide as bearings. They are required to be high in shearing strength and bending strength, and especially wear resistance.
	Bushing	Bushings act to prevent the shock received through rollers when the chain is engaged with a sprocket from being directly transmitted to pins, and also act as bearings, along with the pins. So, they are required to be high in shock fatigue strength and wear resistance.
	Roller	Rollers act to smoothly bend the chain when the chain is engaged with a sprocket, to protect the chain from shock with the sprocket. They are required to be high in shock fatigue strength, collapse strength and wear resistance.
	Plate	Plates are subject to repeated tension of the chain, and sometimes a large shock. So, they are required to be high in tensile strength, and also in shock resistance and fatigue strength.



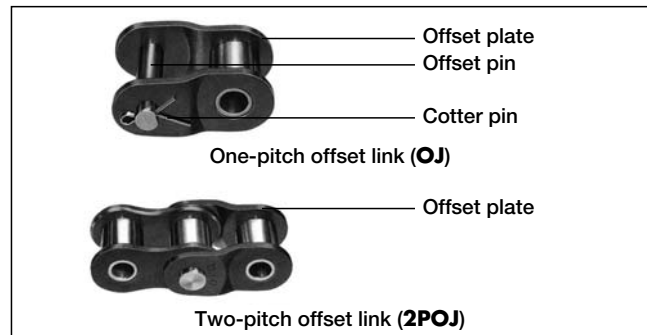
Connecting links

The following four types of connecting links are available (R, F, C and H).



Offset link

An offset link is used for increasing or decreasing the length of a chain by one pitch, and the following two types are generally available.



Since the "connecting link" and "offset link" are lower than the base chain in strength, consult us when using them for any service condition in excess of the Max. kilowatt ratings.

* Clearance fit

In this fit, a clearance is always formed between the pin and the hole when they are assembled. This method is used in standard connecting links.

* Interference fit

In this fit, an interference always occurs when the pin and the hole are assembled. This method is adopted in base chains and H connecting links. However, in H connecting links, the interference is smaller than that of the chain body.