

## Mast Chains

Mast Chain - Used in different applications, leaf chains are regulated by ANSI. They could be utilized for lift truck masts, as balancers between counterweight and heads in several machine devices, and for low-speed pulling and tension linkage. Leaf chains are occasionally even referred to as Balance Chains.

### Features and Construction

Constructed of a simple pin construction and link plate, steel leaf chains is identified by a number that refers to the lacing of the links and the pitch. The chains have specific features like for example high tensile strength for each section area, that enables the design of smaller machines. There are A- and B- kind chains in this particular series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be powered with sprockets.

### Selection and Handling

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance because of the compressive stress of press fits, while in leaf chains, only two outer plates are press fit. The tensile strength of leaf chains is high and the most permissible tension is low. Whenever handling leaf chains it is essential to check with the manufacturer's guidebook in order to guarantee the safety factor is outlined and use safety guards always. It is a better idea to apply utmost care and utilize extra safety guards in functions where the consequences of chain failure are serious.

Higher tensile strength is a direct correlation to the utilization of more plates. In view of the fact that the use of more plates does not enhance the maximum allowable tension directly, the number of plates could be restricted. The chains require frequent lubrication in view of the fact that the pins link directly on the plates, producing a really high bearing pressure. Making use of a SAE 30 or 40 machine oil is often suggested for the majority of applications. If the chain is cycled more than 1000 times each day or if the chain speed is over 30m per minute, it will wear extremely fast, even with continual lubrication. Therefore, in either of these situations utilizing RS Roller Chains would be more suitable.

The AL-type of chains must just be utilized under particular situations such as when wear is not a big concern, if there are no shock loads, the number of cycles does not go beyond 100 daily. The BL-type would be better suited under various situations.

The stress load in components would become higher if a chain with a lower safety factor is selected. If the chain is even used amongst corrosive conditions, it could easily fatigue and break extremely quick. Doing frequent maintenance is really important if operating under these types of situations.

The outer link or inner link type of end link on the chain will determine the shape of the clevis. Clevis connectors or likewise known as Clevis pins are made by manufacturers, but the user normally provides the clevis. A wrongly constructed clevis can lessen the working life of the chain. The strands must be finished to length by the producer. Refer to the ANSI standard or call the producer.