

## Forklift Mast Chains

Mast Chains - Used in different applications, leaf chains are regulated by ANSI. They can be utilized for lift truck masts, as balancers between counterweight and heads in some machine devices, and for low-speed pulling and tension linkage. Leaf chains are occasionally likewise called Balance Chains.

### Features and Construction

Constructed of a simple link plate and pin construction, 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 instance high tensile strength for each section area, which enables the design of smaller mechanisms. There are A- and B- kind chains in this series and both the BL6 and AL6 Series have the same pitch as RS60. Lastly, these chains cannot be driven utilizing sprockets.

### Handling and Selection

In roller chains, the link plates have a higher fatigue resistance because of the compressive tension of press fits, yet the leaf chain only has two outer press fit plates. On the leaf chain, the maximum permissible tension is low and the tensile strength is high. Whenever handling leaf chains it is essential to check with the manufacturer's manual in order to guarantee the safety factor is outlined and use safety guards all the time. It is a better idea to carry out extreme care and utilize extra safety measures in functions wherein the consequences of chain failure are serious.

Using more plates in the lacing leads to the higher tensile strength. For the reason that this does not improve the utmost allowable tension directly, the number of plates used can be restricted. The chains require regular lubrication because the pins link directly on the plates, generating a really high bearing pressure. Using a SAE 30 or 40 machine oil is normally advised for the majority of applications. If the chain is cycled more than 1000 times day after day or if the chain speed is more than 30m per minute, it will wear extremely fast, even with continuous lubrication. Thus, in either of these situations using RS Roller Chains will be more suitable.

The AL-type of chains should only be utilized under certain situations like for example when wear is really not a huge concern, if there are no shock loads, the number of cycles does not go over one hundred each day. The BL-type will be better suited under various conditions.

If a chain with a lower safety factor is selected then the stress load in parts would become higher. If chains are used with corrosive elements, then they could become fatigued and break somewhat easily. Performing regular maintenance is essential when operating under these types of situations.

The type of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or also called Clevis pins are constructed by manufacturers but usually, the user provides the clevis. An improperly made clevis can decrease the working life of the chain. The strands must be finished to length by the manufacturer. Check the ANSI standard or phone the maker.