

## Forklift Mast Chain

Forklift Mast Chains - Leaf Chains consist of several functions and are regulated by ANSI. They are meant for low-speed pulling, for tension linkage and lift truck masts, and as balancers between counterweight and head in some machine tools. Leaf chains are at times even referred to as 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 pitch and the lacing of the links. The chains have specific features such as high tensile strength for every section area, which allows the design of smaller mechanisms. There are A- and B- type chains in this series and both the AL6 and BL6 Series comprise the same pitch as RS60. Finally, these chains cannot be driven using sprockets.

### Handling and Selection

Comparably, in roller chains, all of the link plates have 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 maximum permissible tension is low. While handling leaf chains it is important to confer with the manufacturer's instruction manual so as to guarantee the safety factor is outlined and utilize safety guards at all times. It is a good idea to exercise extreme caution and use extra safety measures in applications where the consequences of chain failure are serious.

Utilizing a lot more plates in the lacing causes the higher tensile strength. In view of the fact that this does not improve the utmost permissible tension directly, the number of plates utilized could be limited. The chains require regular lubrication as the pins link directly on the plates, producing a very high bearing pressure. Utilizing a SAE 30 or 40 machine oil is normally suggested for nearly all applications. If the chain is cycled over one thousand times day by day or if the chain speed is more than 30m for each minute, it will wear very quick, even with constant lubrication. Thus, in either of these situations the use of RS Roller Chains will be much more suitable.

The AL-type of chains must only be used under particular conditions like for example if wear is really not a huge issue, if there are no shock loads, the number of cycles does not go over one hundred a day. The BL-type would be better suited under different situations.

The stress load in components will become higher if a chain using a lower safety factor is selected. If the chain is also utilized among corrosive conditions, it can easily fatigue and break really quick. Doing frequent maintenance is really vital if 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 likewise called Clevis pins are constructed by manufacturers but often, the user provides the clevis. An improperly made clevis could reduce the working life of the chain. The strands should be finished to length by the maker. Refer to the ANSI standard or contact the producer.